

User Manual

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SmartGo™ 1.5 User Manual

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1 Introduction

While we've tried to make SmartGo self-explanatory, there's more to it than meets the eye. After reading the overview topics in this section, pick any section in <u>Common Tasks</u> [11] to learn how to use a group of features, or read <u>Tips & Tricks</u> [75] for information about the program's cool features. <u>Menus</u> [18] and <u>Toolbars</u> [62] provide details on each command. If you're new to Go, you should read <u>The Game of Go</u> [78].

Your feedback is always welcome. If you find bugs in the program or documentation, or have suggestions for making the program more useful, please let us know by sending mail to <u>feedback@smartgo.com</u>. We'll update the online version of this manual at <u>www.smartgo.com</u> as we learn where people have questions, so please check there first if you think this manual is missing the clue you need. See <u>Technical Support</u> [s2] if you still need help.

If you want a printed version of this Help file, we recommend that you visit <u>www.smartgo.com</u> and download this manual in PDF format. Or you can purchase a printed copy of the book at <u>www.lulu.com</u>.

Thank you for supporting SmartGo. We hope you enjoy the program.

1.1 What is SmartGo?

SmartGo:Player is the complete tool to play, record, replay, analyze, annotate, and print Go games. It's a tool for players of all strengths, from weak players who enjoy playing against the program to strong players who study their own or professional games.

- You can replay games that you find on the web (in .sgf or .go format).
- You can record your own games and easily create diagrams such as those that appear in Go books.
- You can play against the computer and perform sophisticated tactical analysis.
- The dan-level Life & Death algorithm of GoTools (by Thomas Wolf) is integrated into SmartGo:Player.
- SmartGo can also connect to other Go engines using GTP (Go Text Protocol), so you can use SmartGo as a user interface to play against GNU Go, for instance.

SmartGo:Games is a large collection of professional games. While SmartGo works well with other game collections, the size and quality of this game collection make it the preferred choice for studying modern openings.

SmartGo:Combo is a combination of SmartGo:Player and SmartGo:Games, giving you the best analysis tools with the best game collection, at the best price.

SmartGo:Viewer is a free, limited version of SmartGo:Player: All computer play is disabled, as are Save, Print, Export Diagrams, and Add to Collection. The library of games is limited to 5000 games.

SmartGo:9x9 is a free, limited version of SmartGo:Player: Its board size is limited to 9x9.

SmartGo:Editor (formerly known as SmartGo:Board), a version without computer play, has been discontinued.

This manual describes all versions of the program; features provided only in SmartGo:Player are marked as *[Player only]*.

SmartGo does not currently support Internet play (using Go servers like IGS, NNGS, or KGS). There are a number of client programs that you can use to do that; you can then use SmartGo to replay and study your game. We plan to add this capability in a future version.

1.2 Notation and Conventions

Notation: Throughout this manual, the commands to choose are indicated using the following notation:

Menu > Menu item > Tab in dialog box

'Tools > Options > View', for example, means: click on the Tools menu, choose Options, then click on the View tab in that dialog box.

For each command or task, the basic steps are outlined first, optionally followed by several sections providing more information:

Hint: Additional ideas of what you can do.

Detail: Additional background information when you're ready to learn more.

Keyboard: Useful keyboard shortcuts or modifiers related to this command. Standard keyboard shortcuts (for example Ctrl+N for New Game or Ctrl+S for Save) are not documented, as you can easily find them in the menu when you need them.

Warning: Issues you should be aware of.

1.3 Screen Layout

The SmartGo screen is designed to maximize the size of the board. The menu bar and toolbars are placed on the left side so they don't take away space from the board. As shown in the picture below, the width of the left side is adjustable (drag between the toolbars and the board), as is the height of the comment view (drag below the bottom toolbar), and the games view (drag on top of the games view header).



Many of the program's functions are available directly from the board: <u>Finding a particular move</u> |75| in the game, <u>annotating moves</u> [44], or <u>marking stones</u> [75], for example.

Note that SmartGo is a single-document program; like Notepad, SmartGo can have only one file open at a time. However, a single SGF file can contain multiple games; read <u>Game Collections</u> for more information. To work with multiple games at a time, you can right-click in the games view and add

another game to the currently open collection.

1.4 Using Toolbars

SmartGo contains over a dozen toolbars, each with buttons for a particular set of functions. You can easily hide or show toolbars to adapt the user interface to the task at hand. For example, the <u>Diagram toolbar</u> provides functions to create and manipulate diagrams. The <u>Rotate toolbar</u> browides functions to rotate the board (so you can see the game from your opponent's perspective). You can display these toolbars when you need them and hide them when you're done.

You can show or hide a toolbar with either the View menu, or by right-clicking on a toolbar. You can use the toolbar groupings ($\underline{Default}_{[34]}$, $\underline{Annotation}_{[34]}$, or $\underline{All}_{[34]}$) to quickly show groups of related toolbars or to restore the default set of toolbars.

1.5 Tree of Moves

SmartGo operates on a tree of moves. A Go game has a main line of play, but at any point you can play alternative moves, and SmartGo will automatically keep track of all the variations.

The tree view on the left side of the screen shows the move tree around the current position, including the branches you've taken to get to the current position, the current move, and the next move(s) played from the current position.

Opening patterns (joseki) can be represented by a tree of moves, and SmartGo is well suited to study these. The following tree view shows joseki:

- The game name or ID is shown first ("Kogo's Joseki Dictionary"; see <u>www.smartgo.com/links.htm</u> for links to this joseki dictionary, which is available in SGF format).
- The branches that were taken to reach the current position are shown next. At move 0, the third variation (c) was chosen, at move 1, the first variation (a) was chosen, and at move 2, the second variation (b) was chosen. These branches have all been named, so the names are shown too.
- The current move is number 3, it is named "ogeima (large knight's move)".
- There are four possible next moves, labeled a, b, c, and d. Those letters are shown on the board.

Click any displayed move to go to that move; click one of the next moves to go forward or click one of the branches to go backward. Click and drag one of the next moves to change their order (for example, to make move 'c' appear in the list before move 'b').

Each move can have other properties associated with it: a comment, a name, board markings, or other annotations. The term "node" is used to denote the unit comprising the move and all of its properties. In fact, a node doesn't even need to contain a move: Diagram nodes are inserted between the moves to split the game into diagrams, for example.

1.6 Game Collections

An SGF file may contain multiple games. You can create such files by using File > <u>Open Folder</u>[20], Tools > <u>Add to Collection</u>[47], or by checking "Add new game to current game collection" in the <u>New Game</u>[18] dialog. When you open a file containing multiple games, the games view displays a list of games.

#		Game ID	Black Pl	White Player	Result	Event	
	90	1932-09-06	Go Seigen	Iwamoto Kaoru	B+R	Oteai Sping session playoff final	
	91	1933-03-08a	Go Seigen	Iwamoto Kaoru	B+R	Oteai	
\checkmark	92	1931-07-17	Go Seigen	Karigane Junichi	B+2	"Invitation Games" sponsored	
\checkmark	93	1930-03-26b	Go Seigen	Kato Minaichi	B+R	Oteai, Spring session	
	94	1933-10-25a	Go Seigen	Kato Shin	B+3	Oteai	
	95	1932-11-02a	Go Seigen	Kato Shin	B+6	Oteai	
	96	1931-01-29	Go Seigen	Kato Shin	B+R	"Invitation Games" win-and-co	
*	97	1931-03-18b	Go Seigen	Kato Shin	B+R	Oteai, Spring session	
	98	1932-01-06	Go Seigen	Kato Shin	B+R	Playoff series of the Oteai Autu	
	99	1932-01-20	Go Seigen	Kato Shin	B+R	Jiji Go Tournament (win-and-co	
	100	1935-05-15a	Go Seigen	Kato Shin	B+R	Oteai, Spring Session	
	101	1935-06-17	Go Seigen	Kimura Hirozo	B+R	East versus West Japan Invitati	
*	102	1931-02-01	Go Seigen	Kitani Minoru	Jigo	Rising Stars Win & Continue sp	
	103	1933-09-14	Go Seigen	Kitani Minoru	W+R	Rising Stars Win-and-Continue	
	104	1934-10-21	Go Seigen	Kitani Minoru	W+R	Win-and-Continue Komi Tourn	•

- Click on a game to switch to it. Double-click on a game to see its Game Info
- Mark a game by right-clicking on it and choosing "Mark Game" or "Check Game". You can mark games with a hotspot for further study, and with a check mark when you've gone through the game.
- Sort games in a game collection by clicking on the column header. Click again to sort in inverse order. Games keep their relative order when sorting by a different column; for example, the games shown above were first sorted by "White Player" and then by "Black Player". **Note:** Sorting by the first column sorts the games by their markings.
- Right-click on the header to show other properties such as Place, Date, Winner, Handicap, Komi, or Rank, for example, or to hide columns.
- Delete a game from a game collection by right-clicking on the game and choosing "Delete Game".
- Add Games to a collection by right-clicking on the list of games and choosing "Add File" or "Add Folder".
- Select some games and choose File > <u>Save Selected Games As</u>
 to create a new game collection containing just those selected games.
- Turn on <u>Search All Games in Game Collection</u> on the Find toolbar to search for specific text or annotations in all of the games in a collection.

Open Games Library Matching

The games in the currently open file are shown under the Open Games tab. The Library tab shows the games in your <u>Library of Games</u> 2^{2} . The Matching tab shows any games that match the current position (whether you're looking through a game in the Open Games tab or in the Library tab); see <u>Library Toolbar</u> 7^{3} for more information on matching.

1.7 Keyboard Focus

It's easy to move around in the game either by clicking the <u>Navigation toolbar</u> buttons or by using the keyboard shortcuts described there. However, using the arrow keys for navigation works only if the board has the keyboard focus. When editing a comment in the <u>comment area</u>, the arrow keys perform standard text-editing. And when the games view has the focus, the up/down arrow keys navigate between games, while the left/right arrow keys replay the selected game.

The keyboard focus switches automatically to the comment area when you start typing text, and automatically to the board when navigating in the tree. To switch the keyboard focus manually, click the board or the comment area. Alternatively, press F6 to set the focus to the board, or press Shift+F6 to set the focus to the comment. Note that the Focus on Board [44], Focus on Comment [44] and Focus on Games [45] commands in the Replay menu also indicate the current focus.

2 Common Tasks

This section explains how to perform common SmartGo tasks such as playing a game against the computer, replaying and annotating a game, creating diagrams such as those that appear in Go books, and using SmartGo to solve tactical problems.

2.1 Play Against the Computer [Player only]

- 1. Choose File > New Game. This displays the <u>New Game</u>¹³ dialog box.
- 2. Choose "SmartGo" for either black or white to have the computer play that color.
- 3. Enter your name for the other player.
- 4. Optionally change the board size, the amount of time the computer should use, or the handicap.
- 5. Click OK.

SmartGo remembers these settings for subsequent games.

Note that there's no way to change SmartGo's playing strength. SmartGo always plays as well as it can with the given time constraints. It will play moderately better when given more time or a faster computer. SmartGo will also play better when you give it a large library of games to draw opening and corner play from.

Computer lookahead: SmartGo shows its thinking by shading black and white areas, marking unsettled groups and blocks (with subtle red marks), and numbering the expected move sequence. To turn this animation off, click the <u>Computer Lookahead</u> button in the View toolbar. Or, to see more of what the computer is thinking: Turn on <u>move motives</u> in Tools > Options > Analyze, or turn on <u>Show Top Level Moves</u> in the computer lookahead dropdown.

Score graph: The score graph $|_{63}$ indicates how well the computer thinks you're doing. To turn it off, choose View > Toolbars > Score.

End of game: At the end of the game, territory is highlighted, and the score is shown in the main toolbar. (Click on the score to display the number of prisoners rather than the score estimate.)

Resuming a game: If you exit SmartGo during a game (and save the game), SmartGo will restore the game at that point; click Play > <u>Resume</u> (39) to continue the game.

Play against other programs: SmartGo can communicate with other Go programs that implement GTP (<u>Go Text Protocol</u> (54)). One strong program that implements GTP is GNU Go, which is available for free. After you download GNU Go and tell SmartGo where to find it (using Tools > Options > <u>Engine</u> (54) > Go Text Protocol Engines), GNU Go will be listed in the dropdown in the New Game dialog.

2.2 Replay a Game

Choose File > Open 19 to open an existing game in .sgf or .go format.

4 \Rightarrow Use the controls on the blue <u>Navigation toolbar</u> 64 to replay the game.

Auto-replay: To avoid clicking through each move, turn on <u>Auto-Replay</u>. You can choose three speed settings (Slow, Medium, and Fast) with the Auto-Replay dropdown on the Navigation toolbar.

Keyboard: Use the forward and backward arrows on your keyboard as an alternate way to navigate. Note that the keyboard focus 10^{10} needs to be on the board.

Exploring variations: Normal replay of a game follows the main line of play, that is, SmartGo always chooses the first variation at every branch point. There are several ways to explore variations:

- Click the next move on the board to go to that move.
- Click one of the next nodes in the <u>tree view</u> |s| to choose that node.
- Use the <u>Find toolbar [65]</u> to traverse all the variations.
- Use the up or down arrow keys on your keyboard to choose among alternate moves.

You can play different moves at any point in the game, and SmartGo will automatically add that variation to its tree of moves, keeping the main line of play unchanged. When you return to the position where you played a different move, the original move played will be shown as 'a' on the board, and the alternate move will be shown as 'b'.

Hints:

- Click the move number between the arrows to open the Find dialog box 41 and enter a move number to go to.
- Hold down the <u>Alt key</u> and click on a stone on the board to go instantly to the move you clicked on.
- When studying a professional game, it is educational to try to guess the next move. SmartGo supports this with its <u>Guess Next Move</u> mode.
- Use the <u>Automatically Mark Moves with Letters</u> of dropdown on the View toolbar to see alternates of the current move rather than the next moves.

2.3 Study Fuseki or Joseki

- 1. Choose A File > Library of Games 22 to set up your library of professional or strong player games.
- 2. Go to a position in your game where you're wondering what a professional player would play.
- 3. Choose E Fuseki Matching (to match the whole board position) or Joseki Matching (to match a corner position) on the Library toolbar.
- 4. SmartGo will show you how many matching positions it found in the library, and which next moves the players chose in those positions.
- 5. Hover over the moves (shown as A, B, C on the board) to get more information about the games this move was played in.
- 6. Click on the Matching tab to see all the games that match your current position. Explore and replay those games, then switch back to the Open Games tab to continue analyzing your game.

Note: SmartGo looks for matching positions in all rotations. By default, reversed colors are only considered for joseki matching, not fuseki matching, but you can change that in the Library of Games 2 dialog box.

Note: For Joseki matching, SmartGo will show the Tenuki percentage, which is how often players played away from this position. If it's near zero, you should continue to play locally. If it's close to 100%, the joseki is finished, and it's time to play elsewhere. You can click on the Tenuki Percentage indicator to see the moves played around this position later in the game. To see opponent moves, click on the large black or white player icon to change whose turn it is to play.

Note: For joseki matching, the most convenient mode is to choose Near Last Move in the Joseki dropdown, as that will update the matching area as you replay your game. But you can also pin the matching to a specific corner, or manually adjust the area for matching (see Library Toolbar 73).

2.4 Find a Game

Your hard disk probably contains a lot of SGF files, and it can be hard to find the game you're looking for. SmartGo's ability to open thousands of games as a game collection a help.

1. If Choose File > Open Folder |20|, then navigate to a folder on your hard disk that contains the game you're looking for, and open all games in that folder. SmartGo will show a list of all the games. 2a. If you know the name of one of the players, choose Replay > $\underline{Find}^{[41]}$ and type in the name of the player. Make sure "Search all games in collection" is checked. This will go to the first game of that player. Use F3 to step to the next game.

2b. Alternatively, click on the "Black Player" or "White Player" column header to sort by that player. If you know the date or event, you can sort by that. (Right-click on a column header to add other columns.) Or sort by handicap if it was a handicap game, for example, or by result if you know the score.

2c. Alternatively, if you don't know much about the game, but you'll recognize it when you see it, go to a move number where you would recognize the game, then click on the first game in the games view and use the down arrow to navigate through all the games at that move number until you come across the game you're looking for.

2.5 Enter a Game

- 1. Choose File > <u>New Game</u>¹⁸. Choose either "Empty board" in the dialog box, or choose "Play game" and enter the player names. Clear "Keep time for human player".
- 2. **i** Choose File > <u>Game Info</u> 2° : Enter information about this game.
- 3. Generative Save 2^{1} : Save the game periodically as you enter the moves.
- 4. Enter moves by clicking on the board.

Correcting mistakes:

- Click X Delete Last Move ^[22] in the Main toolbar to remove the most recent move.
- If a single move is wrong, just <u>go to that move</u>, grab the stone and put it in the right place.
- If you missed a pair of moves early in the game, return to that position and choose Insert Move Pair 33.

Entering a game from a printed game record:

If you have a numbered game record, SmartGo makes it easy to enter the game by directly entering the move numbers.

- 1. A Choose Add/Remove Text Labels on the Mark toolbar.
- 2. Click on the board where you want to start entering move numbers.
- 3. Keep entering move numbers. Use the arrow keys or Tab/Shift-tab to move from one point to the next. **Note:** SmartGo shows a ghost stone of the right color for all points that have a number. You can this off in <u>Options > Edit</u> [5].
- 4. When you've entered all the numbers, press the Enter key, and SmartGo will offer to convert the numbers to a sequence of moves. It will tell you whether there are any duplicate or missing move numbers, illegal moves, or obvious moves that SmartGo would automatically assume. If there are mistakes you want to fix, just choose No, then enter text label edit mode again to make any changes, and press Enter again.
- 5. Once you've successfully converted the labels to a move sequence, you can delete the labels by choosing Replay > Annotate Board > Delete Labels and Marks.
- 6. If there were moves missing, SmartGo will put empty nodes in their place. You can search for "missing number" to find those, then go one move backward and just play the right move, and it will be put into that empty node.

2.6 Enter a Position

- 1. Choose File > <u>New Game</u> 18. Choose "Empty board" in the dialog box.
- 2. Choose Play > Add/Remove Black Stones 40. (Also available on the Mark toolbar 67.)
- 3. Set up the position:
 - Click to enter a black stone.
 - Shift-click for white stones (or choose Play > <u>Add/Remove White Stones</u> 40).

Common Tasks

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- Drag to enter multiple adjacent stones.
- Click on a black stone to remove it.
- Click on a white stone to change it to a black stone.
- 4. Set the current player using Play > <u>Black to Play</u>^{|₄0} or <u>White to Play</u>^{|₄0}, or by clicking on the large black or white stone in the <u>Player toolbar</u>^{[62}].

You can use Tools > Add to Collection 47 to add the position you entered to a collection of problems. Alternatively, you can check "Add new game to current game collection" in the New Game dialog box to add multiple positions to a collection.

2.7 Annotate and Study

You may annotate each move in the game tree with a text comment[70], or with special marks such as 'Good Move', 'Bad Move', 'Even Position', or 'Good for Black'. You can also mark interesting positions for later review (see Annotation toolbar[70]).

Add text comments: Just start typing a comment for the move; no need to click in the <u>Comment toolbar</u>. When you review the game, the comment for that move will be displayed.

! ? Annotate moves: Use the <u>Annotation toolbar</u> a or the <u>context menu</u> is to mark moves as good (!) or bad (?). Move annotations are understandable internationally, and are shown directly on the board. It's also easy to search for moves marked in this way (see <u>Find toolbar</u> **65**).

• \oplus = \approx Annotate position: Use the <u>Annotation toolbar</u> 10^{-10} to mark positions as good for black, good for white, even, or unclear.

Hotspots and checkmarks: Use <u>hotspots and checkmarks</u> \overline{p} to mark positions of interest. Use the <u>Find toolbar</u> by to return to those positions. Use <u>Delete Properties</u> to clean up all those marks.

Keyboard: Hold down the Shift key while clicking on the board to enter your opponent's move. Hold down the Ctrl key to add an alternate rather than next move.

2.8 Create Diagrams

SmartGo makes it easy to create diagrams such as those that appear in Go books.

- 1. ^I Choose File > <u>Open</u>¹ to open a game.
- 2. Enclose View > Insert New Diagram 3. This displays a dialog box and the Diagram toolbar.
- 3. In the dialog box, choose "Split main line into multiple diagrams" to split the game every 50 moves.
- 4. ● On the Diagram toolbar, click "Find Next Diagram" and "Find Previous Diagram" to navigate among the diagrams.

To find better places to split the game between diagrams:

5. **- - - - - Click the "Start/End Diagram Earlier/Later" buttons to adjust the boundaries between two diagrams.**

To print all the diagrams:

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How diagrams work: SmartGo uses special diagram properties that determine when to show a diagram rather than a position. When you go to a node with such a diagram property, SmartGo displays all the moves from that node to the next diagram (or to the end of the game). For example, if there are diagram nodes before move 1, between moves 100 and 101, and between moves 150 and 151, then the first diagram will show moves 1-100, the second diagram will show moves 101-150, and the third diagram will show the rest of the game.

Diagram Settings: Click <u>Diagram Settings</u> to modify each diagram.

Partial Board: Use Partial Board 🖾 on the View toolbar to see only part of the board.

Diagram Caption: Use <u>Show Diagram Caption</u> on the View toolbar to show or hide the diagram caption below the board. By default, moves that can't be shown as numbers on the board are shown in the caption.

Delete Diagram Node: To delete the current diagram, choose Edit > Delete Diagram Node 31.

Detail: SmartGo creates empty nodes and adds a diagram property to those nodes when dividing the game into diagrams. This cleanly separates diagrams from moves. SmartGo also supports diagram properties in the same node as a move, a style favored by some other programs that create SGF files.

2.9 Solve Problems

You can use SmartGo to practice your skills on collections of problems. You try the move that you think will solve the problem, and SmartGo automatically replies, and keeps track of how many problems you've solved correctly.

Problem collections: For this feature to work, you need a collection of properly set up problems. You can use any of the .prb files that ship with The Many Faces of Go, as well as the problems provided with UliGo (see <u>www.u-go.net/uligo</u>). Or go to <u>www.goproblems.com</u> and download more than a thousand problems from that site, then use File > <u>Open Folder</u> to combine the individual problems into a single file, and save it with the .prb extension.

- 1. Choose File > <u>Open</u> 19 to open a .prb file containing a set of problems. This automatically opens the <u>problem solving toolbar</u> 71 and enters problem solving mode.
- 2. Play the move you think is correct.

Right: The problem toolbar shows **I** or **D** as long as you're on the right path, and **D** when you've solved the problem.

Wrong: If you take a wrong turn, the indicator will become . Click to go back to the previous position and try something else.

3. Dick on Next Problem on the problem toolbar to go to the next problem.

Note: Click on the status indicator to see the solution sequence.

On the right side of the toolbar, it shows how many problems you've solved correctly out of the total number you've tried. If you save the problem file after working on some of the problems, SmartGo will remember which problems you've already gone through, and which ones you solved correctly.

There are a number of options you can set to adapt this feature to your needs. See the section on the problem solving toolbar for details.

2.10 Tactical Analysis [Player only]

To have the computer analyze a tactical problem:

1. Mark the stones in question with triangles. (Click on the stones, or right-click on the stones and

choose Mark Stones.)

2. Depending on the type of problem, choose Tools > Ladder Tactics, Capture Tactics, Connection Tactics, or Life & Death Tactics.

SmartGo then creates two new nodes in the tree, one for black playing first and one for white playing first, each with a diagram property showing the solution sequence. The status will be shown in the board caption, and in the node name, e.g. as <Black can live. White can make ko.>. The value assigned to each diagram node is "B+" or W+" depending on who will win the tactical fight (or "B=W" if SmartGo couldn't solve the problem). SmartGo also determines whether the result depends on a ladder or a ko.

Ladders: SmartGo can solve complex ladders accurately and quickly. The stones involved in a ladder are limited to a maximum of 2 liberties.

Captures: SmartGo is moderately good at general captures. The general capture algorithm in SmartGo handles blocks up to 5 liberties. If it finds a solution, it will dim the area of the board that it thinks won't influence the outcome of the problem. Here are some examples of problems that SmartGo can solve correctly, with the time it takes on a 1.7 GHz Pentium 4 (black to play):





0.63 seconds

0.02 seconds

Connections: Mark two blocks of the same color with triangles, choose Connection Tactics, and SmartGo will check whether they can be tactically connected or cut apart. You can also mark one block with squares and multiple blocks with triangles, and SmartGo will try to connect the squared block to any of the triangled blocks.

Life & Death: The GoTools Life & Death engine, integrated into SmartGo, solves enclosed Life & Death problems as well as many dan-level players can, and often faster. (If the problem is not completely enclosed, GoTools internally will add some stones to enclose it, but you might want to enclose it yourself, as the automatically-added stones can falsify a result.) Some examples (white to play):



If the stones on the board comprise only the Life & Death problem, there is often no need to mark which stones are in question, as the GoTools engine uses heuristics to recognize the vital blocks in Life & Death problems.

Time limit: SmartGo will spend 15 seconds on a tactical problem (for each player) before giving up. Choose Tools > Options > Analyze to change this <u>time limit</u> 3.

Detail: For capture tactics, you also can specify multiple blocks, and SmartGo will try to capture one of the blocks. This is useful when a threat against one block can be used to capture another block.

Detail: For semeai (race to capture), the problem must be completely surrounded, and the safe stones around the blocks in question must be marked with squares (using the <u>Mark toolbar</u> and the safe stones).

3 Menus

This section explains each menu command.

3.1 File Menu

This section explains each command in the File menu.



3.1.1 New Game

Starts a new game (after giving you a chance to save your current game).

New Game	? 🛛
 ○ Empty board ○ Play game Board Size: 19 × 19 ▼ 	OK Cancel
<u>A</u> dd new game to current game collection	
Players Time limit	
Black: SmartGo V 45 min + 15 moves / 5 min V	
<u>W</u> hite: <your name=""> Keep time for <u>h</u>uman player</your>	
Handicap	
Stones: 4 💙 Style: Japanese: Fixed Pattern 💙	
<u>K</u> omi: 0.5 🗸	

Empty board: A quick way to start with an empty board, to set up a problem position, for example. All the controls except board size are disabled. **Play game:** Choose this to specify players, time limit, and handicap.

Board size: Choose any board size from 2x2 to 19x19. (This control is disabled in SmartGo:9x9.) **Detail:** Earlier version of SmartGo:Editor could handle board sizes up to 29x29. For technical reasons, board size is now limited to 19x19 in all versions. If you've bought SmartGo and would like to record or view games on larger boards, we'll be happy to send you an older version that can do that.

Add new game to current game collection: Check this to add this new game to the currently open SGF file instead of starting a new file. This makes it easy to create or extend a game collection.

Players: The player names you enter here will be shown in the toolbars, and will also be copied to the <u>Game Info</u>^[29]. To play against the computer, specify "SmartGo" [*Player only*]. Or specify the name of a program listed in the <u>Go Text Protocol</u>^[54] dialog box to play against a program using GTP. **Detail:** To play against another program connected over the serial port, specify "Modem" [*Player only*]. For an opponent that simply mirrors every one of your moves, type "Mirror" [*Player only*]. For an opponent that simply picks moves from your current Library of Games, type "Library".

Time limit: Choose one of the standard time limits, or choose "Other..." from the dropdown menu to specify a different time limit using the following dialog box. When playing against the computer, the time limit determines how well SmartGo plays: given more time, it will play marginally better; given very little time, it will play significantly worse.

Time Limit	? 🛛
Regulation time Hours Minutes <u>T</u> ime 0 45	OK Cancel
Overtime	

Keep time for human player: By default, SmartGo only keeps track of SmartGo's time. Turn on this option to also keep track of your time, or to use SmartGo to play a timed game against another person.

Stones: The number of handicap stones that the black player starts with, as compensation for white being the stronger player.

Handicap style: The handicap stones can be placed in two ways:

- Japanese: Fixed Pattern: Black starts with N stones in a predefined pattern.
- Chinese: Arbitrary Placement: Black gets to play the first N moves anywhere on the board.

Komi: The compensation the white player gets for letting black play first. For handicap games, the komi is set by default to 0.5, meaning White wins if the territories are the same size.

Detail: Note that SmartGo internally uses Chinese counting and rules (suicide of multiple stones is allowed, full-board repetition is not).

3.1.2 Open

SmartGo can read files in 5 formats:

- *.sgf, *.prb: The SGF format is the standard for exchanging Go games. SmartGo supports both FF[3] and FF[4] versions of the standard with very few exceptions. Game collections (multiple SGF games concatenated into a single file) are handled properly. PRB files are just SGF files with a different extension; typically, they contain collections of problems (see <u>Problems toolbar</u>), and SmartGo automatically enters problem solving mode when opening a PRB file.
- *.sgc: <u>Compressed Game Collection</u>, a variant of SGF using a special property to reduce file size.
- *.sgd: A game collection stored in a proprietary format. SmartGo can read these games, but there
 may be restrictions on what you can do with the games. In particular, you can't save such a game
 collection in SGF format. However, you can save individual games from the collection; see
 Save Selected Games As^[22].
- *.go: The Ishi Press format is becoming less popular. SmartGo reads most properties of .go files. Note that SmartGo doesn't write files in .go format, so when you save such files, SmartGo will display the Save As dialog box and suggest saving with an .sgf extension instead.
- lv*.*: SmartGo can read GoTools files that contain collections of Life & Death problems.

More information can be found in <u>SGF File Format</u> 78.

3.1.3 Open Folder

Opens all the files in a given folder to create an untitled game collection

Open Folder	? 🛛
Folders Open Go files (*.sgf, *.sgc, *.go, *.mgt, *.prb, lv*.*) in this folder: C:\GoGoD\1920-29 Browse Include subfolders	OK Cancel
Files Limit to file names that include the following text:	
Games ✓ Limit to games with specific features: Eilter Games ○ Create game ID based on date rather than file name ○ Add prefix before each newly created game ID:	

Enter the name of an existing folder that contains Go files or click Browse to choose a folder. **Detail:** All files that end in .sgf, .sgc, .go, .mgt, or .prb are opened, as well as GoTools files that start with lv.

Include subfolders: Check this box to also include all folders within the given folder, to an arbitrary level.

Limit to file names that include the following text: Check this box to only include files whose file name contains the given text (not case-sensitive).

Maximum number of files to open: Opening a huge number of files can be slow, so this allows you to limit the number of files opened.

Limit to games with specific features: Click on Filter Games to bring up a dialog that lets you filter games by board size, player strength, and handicap. This is helpful when you have a huge collection of games to go through and won't be able to open all the games due to lack of memory.

Create game ID based on date rather than file name: If the <u>Game ID</u>^[29] of the file opened is empty, it will usually be set to the file name (excluding extension). You can choose to use the date when the game was played to create a unique ID instead.

Add prefix before each newly created game ID: When creating a new game ID (whether based on the file name or the date), SmartGo can add a prefix to make it easier to distinguish games by their source.

Note: You can right-click on the games list and choose <u>Add Folder</u> to add the games in a folder to the currently open game collection.

3.1.4 Filter Games

Allows you to limit games by board size, handicap, or player strength. This dialog box is displayed when you click on "Filter Games" in the <u>Open Folder</u> 2° dialog box.

Filter Games		
-Limit to specific games-	Minimum: Maximum:	ОК
Board size:	9 19	Cancel
Handicap:	2 9	
Player strength:	6 dan (amateur)	
Both players	O Professional games O Amateur games	

Board size: Set minimum and maximum to the same to filter by a specific board size.

Handicap: Set minimum and maximum to the same to filter by a specific handicap.

Player strength: Player strengths are compared using amateur dan rankings. See the discussion on comparing rankings in the Library of Games^[22] dialog.

- Both players: If checked, then both players need to be that strong, otherwise games with one player of that strength will be accepted.
- Professional games / Amateur games: The SGF file format doesn't make a clear distinction between the ranking specified for amateur and professional players, unfortunately, so this lets you give SmartGo a hint on how to interpret dan rankings in the game info. (We recommend using "p" for professional ranks and "d" for amateur ranks.)

3.1.5 Save

Saves the currently open game or collection of games in the most recently chosen file format (see <u>Save As</u>[22]).

If the file has a .go extension, you will be prompted to save it with an .sgf extension instead, as SmartGo doesn't write files in .go format.

Hint: The title bar of the SmartGo window shows a * after the file name if there is some change that has not been saved.

Hint: You can turn on <u>Save game after each computer move</u> to automatically save games played against the computer.

Detail: If you save an SGF file that had some text in front of the proper SGF, that text is preserved when you save the file.

3.1.6 Save As

Saves the currently open game or collection of games with an optional new name and file format.

In the Save As dialog box, the Save as type dropdown has three choices:

- FF[3] Backwards Compatible: This saves in a format that maximizes the chances that other SGF viewers can read the file. Some new FF[4] properties are not saved, and the usual SGF coordinates are always used.
- **FF[4] Complete and Compact:** This saves the file in accordance with version 4 of the SGF file format standard. Point lists are <u>compressed</u> [52] (unless turned off), and the game is saved using <u>standard Go coordinates</u> [76] if that option is turned on. Files are often smaller, but may not be compatible with all SGF viewers.
- Compressed Game Collection (.sgc): This option reduces the file size for large game collections significantly (see <u>Compressed Game Collection</u>). In particular, move sequences without any other properties are compressed to about a third the original size. The file extension suggested for such files is .sgc.
- **Problem collection:** Saves the file in the current format with a .prb extension. Files with .prb extension are opened in problem solving and mode.

You can set the preferences for writing files in Tools > Options > \underline{Save}_{52} . The default is to use FF[4] for new files, and to keep existing files in their original format.

Note: Save and Save As always save the game or games in the Open Games tab. To save games in the Library or Matching tab, choose <u>Save Selected Games As</u> 2^{2} .

3.1.7 Save Selected Games As

Saves the game or games currently selected in the games view with a new file name. This is useful to create a new game collection containing only a subset of games from a larger collection, or to export the current game from a game collection.

Note: Games from the game collection included with SmartGo (stored in SGD format) can be saved one at a time. On the Library or Matching tab, right-click on a game and choose Save Game As, and you can save it as a regular SGF file. However, to protect the copyright and investment in the game collection, saving such library games in bulk is not supported.

3.1.8 Library of Games

The Library of Games dialog box lets you set up a library of tens of thousands of professional or amateur games. You can then access those games on the Library tab. And you can match any position

in your games against any of the positions in all the games in your library.

SmartGo Professional Library: SmartGo comes with a collection of more than thousand professional games, and the library will initially be set up to point to that collection. Check the SmartGo web site to purchase a much larger collection of professional games. **Detail:** The SmartGo game collection is stored as "SmartGo.sgd" in the same location as the SmartGo executable (usually "C:\Program Files\Smart Go"). When you first start up SmartGo, the library will automatically point to that file.

Library of Games	
SmartGo Professional Library SmartGo comes with a free library of more than 1000 professional games to study professional moves and to match fuseki or joseki positions in your own games. You can purchase a much larger collection of professional games at the SmartGo web site. Image: C:\Go\ProGames.sgc	OK Cancel
Your Personal Library You can create your own library from professional or amateur games you own. Such a library needs to be in the form of a game collection (multiple SGF games concatenated into a single file). Create Library: C:\Go\OtherGames.sgf Browse Professional games Amateur games Mark duplicate games instead of discarding them	
Library Settings ✓ Use library to generate standard computer moves Euseki: Match swapped colors when matching whole board ✓ Joseki: Match swapped colors when matching partial boards ✓ Swap colors on board when displaying matching games ✓ Show time used to find matching positions Minimum rank for including moves played: 0 Image: Colors of the symplet 0	

Your Personal Library: You may already have a number of games by professional players or strong amateurs, and you can use these to create your own library, without having to modify the library you bought. For SmartGo to use such games, they need to be in a single file. Click **Create** to bring up the <u>Create Library</u> [24] dialog box that helps you create such a library.

Library: Simply uncheck this box to not load and use the professional and/or your personal library.

Professional games / Amateur games: The SGF file format doesn't make a clear distinction between the ranking specified for amateur and professional players, unfortunately, so this lets you give SmartGo a hint on how to interpret dan rankings in the game info. (We recommend using "p" for professional ranks and "d" for amateur ranks.)

Mark duplicate games instead of discarding them: When opening a library of games, SmartGo will check for duplicate games (all the same moves played), and by default discard all duplicate games. You can choose to have SmartGo mark them with a hotspot, and SmartGo will also combine the two game IDs with a "DUP" in between.

Use library to generate standard computer moves: Turn this on to have SmartGo automatically pick

out opening and joseki moves from the current library games. SmartGo will appear to play significantly better, as it will play much more standard moves. It will also play more quickly in cases where professionals continued playing a joseki.

Fuseki: Match swapped colors when matching whole board: By default, swapped colors are not considered for full-board matching, but you can turn this on.

Joseki: Match swapped colors when matching partial boards: By default, swapped color are considered for joseki matching, but you can turn this off.

Swap color on board when displaying matching games: When you're matching joseki and allow opposite colors to match too, then when you go to the matching tab, all the games are shown with the colors matching the colors in the original position. This makes it easy to see how the joseki relates to the surrounding position, but it can be confusing when trying to figure out who really played which color. You'll notice that the black and white stone indicating whose turn it is to play is swapped when the colors on the board are swapped, but the players in the <u>Game Info</u> are still the original players.

Show time used to find matching positions: Enable this if you're interested in how fast SmartGo really matches positions in thousands of games. The time will be shown in the <u>caption</u> SmartGo is slowest to match corner positions that contain just a few stones.

Minimum rank for including moves played: When you include amateur games in your library, you may want to filter out games played by weaker players. SmartGo will still match those positions, but won't show the moves they played. The rank given is in amateur dan. SmartGo internally maps professional ranks as follows: Professional 1 dan to 4 dan = 7 dan amateur; professional 5 dan to 7 dan = 8 dan amateur; professional 8 dan or 9 dan = 9 dan amateur. (This is just a useful approximation for SmartGo to be able to handle the two rankings on a single scale, it doesn't exactly reflect the strength of amateurs versus. professionals.) Thus if you specify a minimum of 6 dan, that includes all amateur players 6 dan or stronger plus all professional players. Specify negative rankings to indicate kyu ranks.

3.1.9 Create Library

Makes it easy to create a library from your existing files. This dialog box is displayed when you click on "Create" in the Library of Games 22 dialog box.

Create Library	? 🔀
Create Library Create library from all SGF files in the following folder and its subfolders: C:\GoGoD Browse Save library as Compressed Game Collection (.sgc): C:\AllGoGoDGames.sgc C:\AllGoGoDGames.sgc Browse Note that the free SmartGo:Viewer limits the library to 5000 games. SmartGo:Player has no limit on the number of library games. In SmartGo:Player, you can also use File > Open Folder followed by File > Save As to create your own library.	OK Cancel

Simply specify the folder where you want to find the games, and the library file you want to create. After you click OK, SmartGo will open all the files in that folder, read all the games, and save them as a single file.

Note: The file will be saved in SGC format (<u>Compressed Game Collection</u>) to save space on your hard disk and to make it faster to open the library.

Note: SmartGo:Viewer limits the library to 5000 games.

3.1.10 Export Diagrams

Exports high-quality diagrams of the current game as either EPS (Encapsulated PostScript) or PDF (Portable Document Format) files, for inclusion into other documents, or for viewing and printing.

Export Diagrams		? 🛛		
Diagrams to export	export Settings i position Include caption rams Include caption Next positions Indicate Black or White to play nes in collection Show coordinates around board			
Layout and size Diagrams per page, or fixed size per board point (twips = 1/1440 inch): 2 x 3 (6) File format EPS: One diagram per file, for inclusion into other documents				
Append diagram name instead of numbering multiple files PDF: Multiple diagrams in a single file, for viewing and printing C:\diagrams.pdf Browse Show each file after creating it				

Diagrams to export: You can choose to export just the current position, all positions marked as diagrams, or all positions that are found with Find Next. This last option combined with the settings in the Find dialog [41] is extremely powerful. For example: Create diagrams of all positions marked as hotspots, create diagrams showing all moves marked as bad, create diagrams showing all ko threats played, or create diagrams of all positions at move 30 in a collection of games.

Crop to relevant points: Check this box to automatically limit diagrams to a partial board that includes just the stones plus a single line of empty points, rather than showing the whole board. Use <u>Partial Board</u> in the View toolbar to explicitly specify a limited section of the board and override automatic cropping.

Include caption: Check this box to include the caption below each diagram. Use Diagram Settings of to edit the caption for each diagram.

Indicate Black or White to play: Check this box to append "Black to play" or "White to play" to the caption to show whose turn it is to play in that position. This is particularly useful for a collection of problems. **Detail:** You can change the text added by clicking the More button to get to the

Advanced Settings 26 dialog.

Include Game Info (PDF only): Check this box to include the <u>Game Info</u> by for each game on the top of a new page.

Show coordinates around board: Check this box to show standard coordinates around each diagram.

Layout and size: You can specify the size of each diagram either by specifying how big each board point is (most useful for EPS), or by specifying how many diagrams to fit on a single page (most useful for PDF).

EPS (Encapsulated PostScript): Each diagram is saved as a separate file, for easy inclusion into other documents such as word processing or desktop publishing programs. When writing multiple files, the diagram name or a number is appended to each diagram. Printing to a PostScript printer driver will assure that your EPS diagrams will print at the highest possible quality.

- Detail: SmartGo doesn't create a preview picture for the EPS, so when inserting the EPS file into PageMaker, for example, you might just see a gray box. Use the following command in PageMaker to create preview pictures: File > Place > Show Filter Preferences > EPS graphic > Create Preview If None Exists. If that still doesn't work, try updating the EPS import filter.
- **Detail:** If you get poor output after using an application such as Word to put together EPS diagrams and then export to PDF, the problem is most likely that you don't have the fonts Helvetica and Helvetica Bold installed. You may need to purchase and install those fonts to work around this Adobe Acrobat bug.
- Detail: If you get poor output after inserting EPS diagrams into PageMaker and then use PageMaker to produce a PDF file, go to Printers > Distiller > Properties in PageMaker and turn off "Don't send fonts to distiller".

Append diagram name instead of numbering multiple files: When exporting multiple diagrams, each file needs to have a unique name. You can choose to append either the diagram name or a number to the file name. If a diagram has no name, a number will be appended even when this option is checked. **Detail:** SmartGo replaces characters that are illegal in file names with an underscore when constructing the file name; the diagram name is not changed.

PDF (Portable Document Format): A number of diagrams can be included in the same file, and then viewed and printed with the free Adobe Acrobat Reader, for example.

Warning: Note that any existing files with the given file names will be overwritten without warning.

Show each file after creating it: Check this box to automatically launch your preferred application for EPS or PDF files. **Detail:** When exporting multiple EPS files, only the first ten are shown.

Detail: A few markings are not exported yet: Dimmed, selected, and moyo. Unsettled groups are shown with dashed lines around the stones.

More: Displays the <u>Advanced Settings</u> dialog box that allows you to fine-tune the appearance of exported diagrams.

3.1.11 Export Diagrams Advanced Settings

Allows you to fine-tune the appearance of exported diagrams. This dialog box is displayed when you click on "More" in the Export Diagrams allog box.

Export Diagrar	ns - Advanced Se	ttings	? 🛛
Board			ОК
	Thin	Thick	
Board <u>l</u> ines:	· · · · · · · ·	1 1 1 1 1	Cancel
<u>E</u> dge lines:	· · · · · · · · · · · · · · · · · · ·		
<u>T</u> riangles:	· · · · · ·		
	Small	Large	
<u>S</u> tone size:	· · · · · · ·		
<u>H</u> oshi point:	· · · · · · ·		
Show <u>n</u> umb	ers on stones in bold		
Caption			
Separator befor	re <u>p</u> layer indication:	-	
Text indicating	Black to play:	Black to play	
Text indicating <u>W</u> hite to play:		White to play	
Text to show "N at <u>M</u> ": at			
Defaults			

Board lines: Changes the width of board lines and lines around white stones.

Edge lines: Changes the width of lines at the edge of the board in relation to other board lines. At its thinnest setting, the edge lines have the same width as other board lines.

Triangles: Changes the width of lines used to draw triangles, crosses, diamonds, and squares.

Stone size: Changes the size of stones to leave a bit more space between the stones. At its largest setting, the stones touch exactly.

Hoshi point: Changes how pronounced the hoshi points are drawn.

Show numbers on stones in bold: The numbers drawn on stones may be shown in a regular or bold font. **Detail:** The font used to show numbers on stones is Helvetica (or Helvetica Bold when showing numbers in bold). Windows properly uses similar fonts if Helvetica is not on your machine, but a bug in Adobe Acrobat causes problems when converting documents containing SmartGo EPS diagrams to PDF, with the result that numbers on stones are not centered properly. You can install Helvetica (or Helvetica Bold) to work around this Acrobat bug.

Caption: These settings determine the text added to the caption when $\underline{\text{Indicate Black or White to play}}$ is checked in the Export Diagrams dialog, and how to indicate that one move is played at the same point as an earlier move. **Detail:** Note that the separator is added only if there is an existing caption to add it to.

Defaults: Restores all the settings in this dialog to their default value. Press OK to accept the default settings.

3.1.12 Page Setup

Standard Windows dialog box for setting up paper size, source, and orientation as well as the margins around the printed page.

3.1.13 Print Setup

The Print Setup dialog box lets you choose board color and size used when printing the current position.

Print Setup			? 🔀
Board			
Board color <u>W</u> hite boa <u>G</u> ray boar	rd d		
Board size	(as large as possibl€	2)	
	Size of a single	e <u>b</u> oard point:	
<u>M</u> edium	303	twips (1/1440 inch)	
<u>S</u> mall	Size of full boa	ard:	
<u> </u>	3.99792	inches	
O <u>O</u> ther	10.1534	centimeters	
Defaults			
		ОКС	ancel

Board color: By default, the board is printed with a light gray background. You can switch to printing the board with a transparent background.

Board size: You can select one of four preset board sizes, or choose to print the board as large as possible (use <u>Page Setup</u>²⁸) to adjust the margins for Full Page printing). The size of each board point is measured in twips (1/1440 of an inch); SmartGo also computes how large a full board diagram will be at the selected size.

Defaults: As in many other dialogs, the Defaults button restores all the settings in this dialog box to their default value. Press OK to accept the default settings.

3.1.14 Print

Prints the currently shown diagram or board position as specified in the <u>Print Setup</u> bialog box. **Hint:** To print multiple diagrams, choose File > Export Diagrams to create a PDF file containing all the diagrams, then print the PDF file using an application like the free Adobe Acrobat Reader.

Hint: The diagram caption a will be printed below the board if it's turned on.

3.1.15 Game Info

Displays all the relevant information for a game. You can shrink the dialog box to hide rarely used fields by clicking on the Less button.

Any fields that are not applicable should just be left empty; empty fields are not stored in the file.

Note: You can select multiple games in the games view and change the game info for all those games at the same time. Data that is exactly the same in all selected games will be shown, other fields will be shown as "---". Fields left as "---" will be unaffected when you click OK; enter new text in any fields that you want to apply to all selected games.

Game Info)		?🛛
<u>G</u> ame ID:	1980-01-31c	rent: 5th Gosei Rou <u>r</u>	nd: Round 1 OK
<u>D</u> ate:	1980-01-31	Hours Minutes Overtime	Split Cancel
<u>P</u> lace:	Nihon Ki-in	me limit:	
	Name	Rank Team/C	Country
<u>B</u> lack:	Hane Yasumasa	8d	
<u>W</u> hite:	Takemiya Masaki	9d	
<u>R</u> esult:	B+R 🖌 Komi:	5.5 <u>V</u> <u>H</u> andicap: R <u>u</u> les:	< <u>L</u> ess
	233 moves Size:	Application:	FF[3]
Source:		<u>A</u> nalysis:	
Cop <u>y</u> right:		Recorder: GoGoD95	
<u>C</u> omment:			_
			~

Game ID: This should be a string that uniquely identifies the game. The Game ID is not crucial for a single game, but is important to identify individual games in a <u>game collection</u>. This field is automatically set when opening games using <u>Open Folder</u>.

Event: The tournament where this game was played.

Round: The round when this game was played. The recommended format for this entry is the round number followed by the type (final, playoff, league), e.g "3 final".

Date: When the game was played. The dropdown makes it easy to select the current date. It's important to enter this date as YYYY-MM-DD so that games can be sorted and searched for by date. Partial dates are allowed, e.g. "1996-05" means May of 1996. Multiple dates should be separated by comma, e.g. "1996-05-06,07,08" means 6th, 7th, and 8th of May 1996. **Place:** Where the game was played, e.g. "Paris" or "Nihon Ki-in".

Time limit, Overtime, Split: The regulation time limit and overtime (byo-yomi) used for this game.

(After the regular time has been used up, it is usual to require a number of moves to be played within a given time period.) In the FF[4] file format, the time limit is specified as a number, with a separate text for overtime. However, some programs specify the time limit as text and include the overtime. The check box lets you choose which way you want to enter the game info. The recommended way is to split time limit and overtime into separate properties.

Name: The player names (without any rank appended).

Rank: The rank of each player. Use "k" or "kyu" for kyu ranks and "d" or "dan" for dan ranks, "p" for professional.

Team/Country: The team or country each player represented.

Result: Who won and by how much, e.g. "B+0.5" or "W+12.5". It's important to use the standard formats provided in the dropdown, e.g. "B+R" for black winning by resignation or "W+T" for white winning on time. Adhering to the conventions enables SmartGo to properly sort the Result and Score columns in game collections.

Komi: The number of points added to white's score to compensate for black having the first move. **Handicap:** How many handicap stones the black player received.

Rules: Standard names for the rule sets are given in the dropdown: "AGA" (American Go Association), "GOE" (Ing), "Japanese", or "NZ" (New Zealand). (Note that SmartGo uses Chinese rules internally, regardless of this setting.)

More/Less: The fields below are only visible after expanding the dialog box.

Number of moves: The number of moves in this game, not counting passes at the end of the game. **Size:** The board size of this game.

Application: Newer programs will set the Application property in the file so that you can see which program last wrote the file (SmartGo will set it to "SmartGo:1.4"). **File format:** The file format (FF[3] or FF[4]) will be shown if the game has been saved.

Source: Where this game came from, e.g. Go World. **Analysis:** Who provided the analysis of the game. **Copyright:** Who has the copyright on the game commentary. **Recorder:** The person who recorded the game.

Comment: A comment applying to the game as a whole. This game comment will be shown in the <u>Comment view</u> at start of the game, clearly separated from the normal comment.

Detail: You can display most of these properties in the games view by right-clicking on the header and adding the appropriate column. You can tweak the registry setting "GameListColumns" to add columns for properties not listed in the dropdown menu.

3.1.16 Recent Files

Opens one of the six most recently opened files.

3.1.17 Exit

Exits SmartGo, after giving you a chance to save changes to the current game.

Your current settings are preserved (see <u>Registry Settings</u>^[22]). The current game (assuming it was saved) will open at the same point in the game the next time you start SmartGo. Choose Tools > Options > General to disable <u>Open most recent game at startup</u>^[50].

3.2 Edit Menu

This section explains each command in the Edit menu.

Undo	Ctrl+Z	
🐰 Cut	Ctrl+X	
🗎 Copy	Ctrl+C	
🔁 Paste	Ctrl+V	
Delete Node		
Delete Nodes		
Delete Properties		
Insert Node		
Insert Move		
Insert Move Pair		
Count Nodes		
Node Name	. Ctrl+L	
Make Main Lir	ne Ctrl+M	

3.2.1 Undo

Undo works only while editing text in the <u>Comment area</u> $\overline{10}$. It does not work when the focus is on the board; in particular, it does not undo moves. To take back a move, use $\underbrace{\times}$ <u>Delete Last Move</u> $\underline{62}$.

3.2.2 Cut, Copy

These commands work only while editing text in the <u>Comment view</u> $\overline{70}$. They do not work when the focus is on the board.

3.2.3 Paste

If the focus is on the <u>Comment view</u>, this inserts the text currently on the clipboard.

If the focus is not on the Comment view, and the text on the clipboard consists of a game in SGF format, then that game is added to the currently open game collection. For example, postings in the rec.games.go newsgroup may include SGF, and copying that SGF and pasting it into SmartGo is an easy way to view such games.

3.2.4 Delete Move

Deletes the current node. Unlike the \times icon on the main toolbar, which only deletes the last move of a sequence, this command also deletes moves from the middle of a sequence. This command can be useful in special situations, but there is often a better way to correct a move in the middle of the game: Go to that move, then click and drag the stone on the board to its proper location.

Detail: Depending on the properties of the current node, this command is named "Delete Move", "Delete Diagram Node", "Delete Territory Node", or "Delete Node".

3.2.5 Delete Nodes

Displays the following dialog box. Options that don't apply (deleting branches if there are no branches to delete, for example) are disabled.

Delete Nodes	?⊠
 Delete <u>b</u>ranches (keep main sequence) Delete <u>r</u>est of game (keep current node) Delete <u>t</u>his whole branch 	OK Cancel

Delete branches (keep main sequence): From the current point forward, all side branches (variations) are deleted, preserving the main sequence of play.

Delete rest of game (keep current node): Deletes everything from the current node forward.

Delete this whole branch: Deletes the entire current side branch, back to the start of the branch.

3.2.6 Delete Properties

Displays a dialog box that lists the properties in the game, and allows you to selectively delete certain kinds of properties. For example, you can delete all comments, all territory markings, or all hotspots.

Delete Properties			
Nodes to include	P	roperties to show List all properties ✓List <u>s</u> ize in SGF file	ОК
Property All Annotations Comment Hotspot Checkmark All Statistics Score All Territory Marks All Board Marks All Time Control All Diagram Properties	Count 16 2 1 4849 1388 5670 1 1388 2079	File Size 133 63 10 5 43722 10454 578344 42 13764 19080	<u>D</u> elete

Nodes to include: You can delete properties in the whole game, or just at the positions found with Find Next. In a game collection, either of these options can include just the current game or all games in the collection. For example, if you use hotspots to mark positions you want to look at, and checkmarks to mark the ones you've done, you can set up Find Next to find all checkmarks, and then delete the hotspots from all checked positions.

List all properties: When you first display the dialog box, it shows only a subset of properties. Check this box to see all properties.

List size in SGF file: Check this box to see the estimated total size (in bytes) of each kind of property.

Delete: To delete properties, check the checkbox to the left of the property you want to delete, then click Delete.

Warning: Deleting the move properties is possible but probably not what you want to do.

3.2.7 Insert Node

Displays a dialog box that lets you choose where to insert a new empty node. This is rarely needed, but can be useful when creating elaborate SGF files. Optionally, you can name the newly created node (see Node Name 3).

Insert Node	? 🛛
Insert new empty node <u>B</u>efore current node As alternate of current node <u>A</u>fter current node <u>N</u> ode name:	OK Cancel
variation	

3.2.8 Insert Move, Insert Move Pair

The "Insert Move Pair" command is useful if you have entered a game and then realize that you forgot to enter a pair of moves, a forcing move and its reply, for instance. Go to the position where the first move should be played, choose Edit > Insert Move Pair, play the two moves on the board, and they will be inserted into the game.

3.2.9 Count Nodes

Counts the number of nodes in all variations below the current node, and adds a special property at each branch to show the count. This can be useful in a joseki dictionary to see which variations contain the most branches.

This command changes to "Erase Node Counts" if the current node has a node count property, so choosing this command again clears the node counts below the current node.

3.2.10 Node Name

Each node can have a name; these names are shown in the tree view. Node names can serve as concise comments, and provide an alternative way to navigate the game tree (see \underline{Find}^{41}).

Node Name	? 🛛
<u>N</u> ode name:	OK Cancel

Transforms the current line of play into the main line of play. Use this command if you've inadvertently played the real moves in a side branch (which can happen when you take moves back and then play other moves).

Hint: Note that you can also drag the next moves shown in the tree view to change the order of next moves.

Hint: You're on a side branch if:

- The score graph as shows a dark gray triangle pointing down rather than a blue triangle pointing up, or
- This command is active, or
- The "Back to Main Line 44" command is active, or
- The tree view displays any branches taken that don't go to 'a'.

3.3 View Menu

This section explains each command in the View menu.

	Default Toolbars
	Annotation Toolbars
	Problem Solving
	All Toolbars
	Toolbars •
	Markup Style
	Board Graphics
×:	Insert New Diagram
≣⊟	Diagram Settings

3.3.1 Default Toolbars

Shows the default set of toolbars: Main, Black and White Player, Navigation, and View. Use this command to remove toolbar clutter quickly.

3.3.2 Annotation Toolbars

Shows the default toolbars plus toolbars used for annotating games: Find, Mark, Annotate, and Diagram.

3.3.3 Problem Solving

Shows the <u>Problems toolbar</u> $|\tau^{\uparrow}|$ used for solving collections of problems, and turns on problem solving mode.

3.3.4 All Toolbars

Shows all the toolbars, exposing all the functionality SmartGo has to offer.

3.3.5 Toolbars (submenu)

Turns specific toolbars on or off.

Hint: You can also right-click on a toolbar to get a popup menu that lets you show and hide toolbars. (Due to an implementation constraint, you need to right-click on a toolbar button, or on a gray area of the toolbar, not on the title of a toolbar. We hope to have this fixed in a future version.)

3.3.6 Markup Style

Adjusts how variations are shown on the board, in order to match any comments in the game. By default, the next moves are shown as a, b, c, but some SGF viewers use different conventions. The markup style can also be saved as a property in the file (SGF FF[4] only), so that other viewers respecting that property will display the game the way you intended.

Markup Style		? 🛛
Settings ✓ Automatically mark moves with letters Moves to mark ● Next moves ● Alternates of current move ● Uppercase (A, B, C,)		OK Cancel
File property Read markup style property from Save markup style as a file property Defaults	file erty	

Automatically mark moves with letters: This is the same as the -a- icon in the View toolbar

Moves to mark: The default setting is to show the next moves, but you can switch to showing the alternates of the current move.

Letters to use: The default setting is to use lowercase letters to mark the next moves. When showing alternates, the recommended setting is to use uppercase letters.

Read markup style property from file: Any existing markup style property in the file determines how the game is initially shown. This option is on by default.

Save markup style as a file property: Any changes you make regarding how moves are marked will be recorded as a property in the root node of the current game, and will be written to the file when the game is saved. This option is off by default; turn it on if you're creating game records that should be viewed in a particular way.

Defaults: Restores all the settings in this dialog to their default value. Press OK to accept the default settings.
Adjusts the look of the board on your screen. (The printed board is not affected by these settings; use <u>Print Setup</u> b to change the look of printouts.)

Board Grap	nics	? 🛛
Graphics qua	lity / <u>r</u> ounded stones	OK Cancel
-Board color-		
<u>H</u> ue	ŢŪ	
Saturation	······	
<u>B</u> rightness	-0	
Stone color-		
B <u>l</u> ack		· · · · · · · · · · · · · · · ·
<u>W</u> hite		· · · · · · · · · · · · · · · · · · ·
Font		
<u>F</u> ont size	······	
<u>D</u> efaults]	

Graphics quality: By default, the stones and triangles are drawn with smooth edges (using antialiasing to avoid jaggies). If this appears too slow, you can turn it off. Note that smooth edges are automatically turned off while using a slider to adjust the board color.

Board color: You can adjust the color of the board to look good on your screen.

Stone color: You can adjust the stone color to be subtly gray rather than completely black or white.

Font size: Adjust the font size used to show text labels and numbers on stones.

3.3.8 Insert New Diagram

Creates new diagram nodes. See <u>Create Diagrams</u> for an overview of how diagrams work.

New diagrams will take on the most recent settings specified in the Diagram Settings at dialog box.

Insert New Diagram		? 🛛
Single diagram Insert diagram before this move Insert <u>d</u> iagram after this move Add variation diagram at this position	Diagram <u>n</u> ame: Dia. 1	OK Cancel
Multiple diagrams Split main line of game record every Split main line of game record into Add diagram at every branch point Add diagrams in all games in collection	50 moves 4 diagrams	

Insert diagram before this move: Inserts a new diagram node before the current node. That diagram will show the sequence of moves starting at the current move and ending at the next diagram. Use this to split an existing diagram into two diagrams, or to add a variation diagram for an existing move sequence off the main line of play. **Detail:** If you choose this at an empty node, the diagram property will be added to the empty node rather than creating a new node. You can use this in combination with View > Insert Node^[33] to add diagram nodes as alternates of other diagram nodes.

Insert diagram after this move: Inserts a new diagram node after the current node, on the main line of play. That diagram will show the sequence of moves starting at the next move and ending at the next diagram. Use this to split an existing diagram into two diagrams.

Add variation diagram at this position: Inserts a new diagram node as a child of the current node. You can use the newly created diagram to show the current position (without any move numbering), or you can enter a sequence of moves to show a variation off the main line.

Diagram name: When adding a single diagram, you can specify a diagram name for the newly created diagram.

Split main line of game record every N moves: Adds diagram nodes every N moves along the main line of the game. For instance, splitting a game with 175 moves every 50 moves will produce four diagrams: 1-50, 51-100, 101-150, and 151-175.

Split main line of game record into N diagrams: Adds N diagram nodes along the main line of the game. The first diagrams have slightly fewer moves than the last ones. This setting is particularly useful for printing diagrams for a collection of games when you want each game to fit on a single page.

Add diagram at every branch point: Inserts a diagram in front of every branch, to make it easy to see the whole sequence when going to a variation.

Add diagrams in all games in collection: Check this box to add diagrams in all games in the game collection rather than just the current game. **Detail:** This setting is only available when adding multiple diagrams.

3.3.9 Diagram Settings

Customizes diagram caption and numbering. These settings are stored with the diagram and can be set for each diagram individually.

Diagram name: If a diagram name is specified, it will be shown in the caption and as <diagram name>

in the tree view. It will also be printed (if the caption is displayed when printing the diagram), and shown using $\underline{\text{Export Diagrams}}_{25}$. And of course you can search for the diagram name, "Dia. 3" for example, using $\underline{\text{Find}}_{41}$.

Show diagram name in caption: Turns on display of the diagram name in the caption. (The diagram name is always shown in tree view, regardless of this setting.)

Show move numbers (From-To): Turns on display of the move numbers as "(From-To)" in the caption. (The numbers are always shown in tree view, regardless of this setting.)

List moves not shown in diagram: Uses the caption to display moves that can't be shown on the board, such as "89 at 77" if move 89 was played at the same point as move 77, for example. **Detail:** Use File > Export Diagrams > $More^{26}$ to change "at" to a different language or symbol.

Repeat last move of previous diagram: Starts the first move of the next diagram with the last move of the previous diagram.

Show sequence with small stones: Shows the current position with large stones and the move sequence with small stones. SmartGo uses this setting to show the expected move sequence during computer lookahead.

Show hoshi dots: Displays the small hoshi dots on the board.

No move numbers: Shows only the position at this node, not the sequence of moves leading to the next diagram.

Diagram Settings	? 🛛
Diagram <u>n</u> ame:	ОК
Dia. 3	
	Cancer
Caption	
Show diagram name in cap	ption
Show move numbers (<u>F</u> rom	m-To)
List moves not shown in dia	agram
Board	
<u>Repeat last move of previo</u>	us diagram
Show sequence with <u>s</u> mall	stones
Show <u>h</u> oshi dots	
Move numbering	
O No move numbers (show p	osition only)
Start sequence at <u>current</u> r	move number
Start with last two digits of	f move number
◯ Start <u>m</u> ove numbers at:	
Defaults	

Start sequence at current move number: Starts the sequence with the current move number. This is

the default for diagrams created on the main line of play.

Start with last two digits of move number: Truncates the starting move number to two digits, so a diagram of moves 151 to 200 would be numbered as 51 to 100, for example. The caption below the diagram still shows the moves as 151 to 200.

Start move numbers at: Sets an arbitrary starting number. Starting at 1 is the default for diagrams created on a side branch.

Detail: In the FF[4] file format, most of these are standard options, so other programs implementing the complete FF[4] standard should show the diagrams the same way. SmartGo extends the standard with: Show move numbers (From-To), repeat last move of previous diagram, and show sequence with small stones. See the section on the SGF File Format^[78].

3.4 Play Menu

This section explains each command in the Play menu.

5 50	Stop Clock Esc	- 1
Θ	Resume Play	- 1
	Time Left	
Pass	Pass	
•	Black to Play	
0	White to Play	- 1
۲	Add/Remove Black Stones	- 1
്	Add/Remove White Stones	
	Computer Color	×
1.0		

3.4.1 Stop Clock

Stops the clock, and also stops the computer lookahead.

Detail: The clock has three states: On, off, and suspended.

- On: Time is counting down for the player to move, and the computer will compute its move if it's the computer's turn. If "Compute during opponent's time" is turned on (see
 <u>Tools > Options > General</u>), the computer will also be computing in the background while it's your turn to move.
- Off: The clock is stopped, and the computer is not thinking.
- **Suspended:** The clock is stopped, but will automatically restart when a new move is played. SmartGo enters this state when the clock is running and you take back moves; when you then play another move, the clock is automatically restarted and the game continues. If you suspend the clock while SmartGo is computing its move, to go back a few moves, for example, the previous position will automatically be restored when the computer is ready to play.

Keyboard: Use Esc to stop the clock.

3.4.2 Resume Play

This starts the clock, and starts the computer player thinking about its move if it's the computer to play. Use this command to continue a game against the computer.

Detail: When the clock was stopped, SmartGo looks at the player names to determine whether the

computer should start playing. If one of the players is named SmartGo (or a name given to a <u>Go Text Protocol</u> should be computer will start playing that color.

3.4.3 Time Left

Changes the time left for each player, and the overtime setting (byo-yomi) to use when running out of regulation time.

Т	ime Left	:			? 🛛
	Regulatio	n time Hours	Minutes	Seconds	ОК
	<u>B</u> lack:	0	58	40	Cancel
	White:	0	39	16	
	Overtime	moves i	n 5	minutes	

3.4.4 Pass

Plays a pass move, which is always legal. Two consecutive passes end the game.

Detail: During an Environmental Go^{77} game, Pass is used to take a coupon.

3.4.5 Black/White to Play

Sets the current player to move. This is most useful after setting up a problem position to indicate whose turn it is to play, but you can also use it at any point in the game to play out what the opponent could do in a particular position.

Hint: You can also hold down the Shift key to play an opponent move.

3.4.6 Add/Remove Black/White Stones

Sets up a position, or modifies the current board position. These commands are also available on the $Mark^{67}$ toolbar.

Drag to add multiple stones: Hold down the mouse button and drag to quickly add multiple stones.

Shift-key for opponent color: Hold down the Shift key while adding stones to add stones of the other color.

Hint: You can also remove stones from the current position. Use this feature to demonstrate how the position would look without some bad moves played earlier in the game, for example. (Note that some SGF viewers might not handle this standard SGF feature properly.)

Detail: In FF[4], moves and setup stones can't be mixed in the same node, so a new node is created when you add stones in the middle of the game.

3.4.7 Computer Color [Player only]

Sets SmartGo to play black, white, or both colors, and starts the clock.

Note: While this is a convenient way to play against SmartGo starting from an arbitrary position, it's not the recommended way to start a game against the computer. Choose Tile > $\underline{\text{New Game}}^{[18]}$ to start a game that properly sets up the $\underline{\text{Game Info}}^{[29]}$ for that game.

Detail: If no time limit has been set yet, the default setting from the New Game dialog box is used to set the computer's time. If no player name has been entered, the player name will be set to "SmartGo".

3.5 Replay Menu

This section explains each command in the Replay menu.

ø	<u>F</u> ind	Ctrl+F	
₿ ₽	Find Previous	Shift+F3	
# 4	Find <u>N</u> ext	F3	
	<u>G</u> o To		×
►	Automatic <u>R</u> eplay	F5	
	Annotate <u>B</u> oard		۲
	Annotate <u>M</u> ove		×
	Annotate <u>P</u> osition		۲
•	Focus on Board	F6	
	Focus on <u>C</u> omment	Shift+F6	
	Focus on Games		

3.5.1 Find

Searches for text in a game (either in a comment, a node name, a diagram name, or a game info property), searches for a specific property, or goes to a specific move number. To search for text or go to a move number, simply type in the text or move number. Use the dropdown to search for a property. The dropdown and some of the settings explained below are also accessible from the Find toolbar [65].

Find	? 🛛
Find what Text or move <u>n</u> umber: Shusaku	Eind Next Cancel
Match case Single ODouble	
Find where Search main line only Search variations only Limit range of move numbers: From: 1 To: 100	
Search <u>all games in collection</u>	
Find how Search variations <u>b</u> efore main line of play Find move annotations (?!) in next move	

Match case: When searching for text, this checkbox determines whether a search for "black", for example, will match only "black" or also "Black" and "BLACK".

Match emphasis: When searching for properties such as hotspots, you can choose to find both single and double hotspots (the default setting), or choose to match only single or only double (emphasized) hotspots.

Search main line only: Only search for nodes along the main line of play.

Search variations only: Only search for nodes that are in a variation, not on the main line.

Limit range of move numbers: Restrict the search to a specified range of move numbers. **Detail:** This slows the search down noticeably in large game collections.

Search all games in collection: When a game collection is open, you can limit search to only the current game, or you can search all the games in the collection.

Search variations before main line of play: The normal search order is to explore to the end of the current line of play, then go back to the most recent branch point, explore to the end of that branch, and so on. When this option is enabled, SmartGo explores branches before continuing with the main line of play.

Find move annotations (?!) in next move: When searching for move annotations, it's often desirable to show the bad move as the next move rather than the current move, so that you can also see the alternate move that's marked as a good move.

Detail (Node ID): The F8 key copies the Node ID of the current node to the clipboard (use Shift+F8 to copy cross-references as used in Kogo's Joseki Dictionary). In the Find dialog box, use Ctrl+V to paste that Node ID from the clipboard to find it again.

Here's an example of SmartGo's Node ID syntax: 0#3+5. This is read as "start at move number 0, take branch number 3, then go 5 nodes forward".

This is the same node using Kogo's cross-reference syntax: 3-1-1-1-1 (take branch number 3, then take branch number 1 five times).

3.5.2 Find Previous

Works like $\underline{\text{Find Next}}_{43}$, but searches backwards from the current node rather than forwards.

Keyboard: Shift+F3.

3.5.3 Find Next

Searches for the next occurrence of the text or property specified by the last Find at command.

Keyboard: F3.

3.5.4 Go To

See the <u>Navigation Toolbar [64]</u> for an explanation of these commands.

3.5.5 Automatic Replay

To avoid having to click through each move, turn on Auto-Replay. This convenient hands free mode has many uses: for example, watch Shusaku play a move every 20 seconds the next time you pay your bills. Or study professional games while rocking your newborn to sleep. Let us know your favorite use of this feature.

Automatic Replay has three adjustable speed settings (Slow, Medium, and Fast) that you can choose with the Auto-Replay dropdown on the Navigation toolbar.

Slower / Faster: Choose Faster or Slower on the dropdown to speed up or slow down the current mode by about 20%.

~	Slow (10.0s) Medium (3.0s) Fast (1.0s)
	Slower Faster
	Use Find Next Stop at Comments

Use Find Next: Instead of going forward one move at a time, turn on Use Find Next to perform a <u>Find Next</u>^[43] at every step. Used this way, Automatic Replay can find a specific text, find all annotated moves, or go through all the variations in a joseki library. To auto-replay multiple games, for example, choose Every Node in the Find dropdown on the Find toolbar, and make sure Search all Games in Game Collection is turned on. If you just want to see openings, choose Limit Range of Move Numbers on the Where to Search dropdown on the Find toolbar. **Detail:** The Use Find Next setting also affects the behavior of the scroll wheel. Rolling the mouse wheel normally replays the game move by move; when Use Find Next is turned on, the scroll wheel behaves like Find Next.

Stop at Comments: Turn this on to stop auto-replay when reaching a move that has a comment.

Hint: Use ⁻ in the View toolbar to hide the next move(s) if you don't want any hints where the next move will be played.

Keyboard: Use F5 to start or pause the replay.

Detail: SmartGo continues automatic replay if you go forward a move, allowing you to quickly skip moves you're not interested in. It stops automatic replay when you go backward in the game, assuming you want to look at a recent move in more detail.

3.5.6 Annotate Board

All Annotate Board commands are explained in the Mark Toolbar ⁶⁷ section.

3.5.7 Annotate Move

All Annotate Move commands except the following are explained in the Annotation Toolbar 70 section.

No Move Annotation: Deletes any move annotation from the current move.

3.5.8 Annotate Position

All Annotate Position commands except the following are explained in the <u>Annotation Toolbar</u> ¹⁷⁰ section.

No Position Annotation: Deletes any position annotation from the current node.

3.5.9 Focus on Board

Sets the keyboard focus to the board, which means that the keyboard shortcuts normally associated with editing comments are re-mapped to the <u>Navigation toolbar</u>^[64]. For example, the arrow keys, which move the cursor when the focus is on the comment, are used to replay the game.

All of the keyboard shortcuts for the Navigation toolbar [64] will work after setting the focus to the board.

To switch to editing a comment while navigating in the game, simply start typing the comment, choose Replay > $\underline{Focus \text{ on } Comment}^{[44]}$, press Shift+F6, or click in the comment view.

Keyboard: F6.

3.5.10 Focus on Comment

Sets the keyboard focus to the <u>comment view</u> $|\overline{v}|$, which means that the keyboard shortcuts normally associated with the Navigation toolbar are remapped for editing comments. For example, the arrow keys, which replay the game when focus is on the board, will take on their normal text editing function.

Any text you enter will be added to the comment.

To navigate to a different move while the comment view has the focus, click on a button in the <u>Navigation toolbar</u>, or set the focus to the board first and then use arrow keys to navigate. To set the focus to the board, choose either <u>Focus on Board</u>, press F6, or click on the white border just around the board. Any navigation in the game tree will also set the focus back to the board. In addition, rolling the wheel on the mouse will also replay the game and restore the focus to the board.

Keyboard: Shift+F6.

Sets the keyboard focus to the games view, which means that the keyboard shortcuts normally associated with the Navigation toolbar are remapped for navigating between games. Use the up/down arrow keys to switch between games; use the left and right arrow keys to replay moves in the selected game.

Any text you enter while the games view has the focus will be added to the comment.

3.6 Tools Menu

This section explains each command in the Tools menu. The Tools menu in SmartGo:Player includes more commands than in SmartGo:Viewer.

<u>A</u> nalyze Position F11 <u>P</u> lay One Move F9 Analyze <u>G</u> ame Ctrl+G	
Ladde <u>r</u> Tactics <u>C</u> apture Tactics Co <u>n</u> nection Tactics Life & Death Tactics	
A <u>d</u> d to Collection Comp <u>u</u> ter Tourney	Add to Collection
Options	Options

3.6.1 Analyze Position [Player only]

Analyzes the current position and shows what SmartGo thinks is going on. SmartGo shows the territory of each player, the moves it would consider, which groups it thinks are unsettled (red outline around the stones), and which blocks it has computed to be tactically unsettled (red dot on the stones).

Hint: The time SmartGo takes to analyze the position is set by default to 5 seconds. More time will sometimes yield a better analysis. You can adjust the time limit in the Options dialog box $\overline{s_3}$.

Hint: You can easily erase the territory markings by clicking \bowtie in the <u>Main toolbar</u> \square . Or you can hide the marks by turning off \square Show Board Marks \square in the View toolbar.

Keyboard: F11. Ctrl+F11 analyzes the position and generates all the moves that SmartGo is capable of finding, not just the top 24 that SmartGo chooses to look at by default.

Detail: The score shown in the main toolbar counts the territory as marked on the board; the score shown in the tree view is based on SmartGo's evaluation when looking several moves ahead and may differ.

3.6.2 Play One Move [Player only]

Causes the computer to play what it thinks is the best move in the current position. By default, the program spends 20 seconds to determine its move; you can adjust this in the Options dialog box [53].

Keyboard: F9.

Detail: SmartGo remembers much of its previous analysis, so if you go back one move and choose

Play One Move again, SmartGo will look further ahead and possibly choose a different move.

3.6.3 Analyze Game [Player only]

Analyzes all the positions in the current game, and shows the <u>score graph</u> of the whole game.

Analyze Game	
Moves to analyze All moves on main line of play All Find Next positions All games in collection	OK Cancel
Time limit Time per move: 3 seconds Keep repeating analysis with more time	

Moves to analyze: You can look at all the positions on the main line of play, or just the positions that are found with the current $\underline{\text{Find Next}}^{[4^{\uparrow}]}$ settings. In a game collection, either of these options can include just the current game or all games in the collection.

Time limit: At first, you can have the computer go through the game quickly. To get a better analysis, give the computer more time, or check "Keep repeating analysis with more time", in which case it will automatically keep analyzing with more time once it has analyzed all positions with the given time limit.

Detail: For time limits of 5 seconds or less, SmartGo analyzes the position as in <u>Analyze Position</u> $|_{45}$]. Given more than 5 seconds, SmartGo uses lookahead as in <u>Play One Move</u> $[_{45}]$ to get a more accurate assessment.

Hint: To stop game analysis, choose Tools > Analyze Game again, or choose Play > Stop Clock

Hint: To erase scores and territory markings, use Edit > $\underline{Delete Properties}$ [32].

Note: For games between weak players, sudden changes in score can often pinpoint blunders. For games between strong players, sudden changes in score are more likely to indicate that the computer doesn't understand the position.

3.6.4 Ladder Tactics [Player only]

See <u>Tactical Analysis</u>

3.6.5 Capture Tactics [Player only]

See Tactical Analysis

3.6.6 Connection Tactics [Player only]

See <u>Tactical Analysis</u>

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3.6.7 Life & Death Tactics [Player only]

See <u>Tactical Analysis</u> 15.

3.6.8 Add to Collection

Adds the current position to a collection. All the visible stones and marks of the current position are copied; moves before and after this position are not copied, except for next moves marked as either good (!) or bad (?). You can use this to create and extend a collection of problems or interesting positions, for example. **Note:** To add whole games to a collection (not just the current position), right-click on the list of games and choose Add File

Add Positio	n to Collection	X
Add the curre the View tool	ent position to a collection of problems. Use Partial View on OK bar to copy only part of the board.	
Collection:	C:\problems.sgf	'
<u>N</u> ame:		
Source:		
<u>M</u> ark curr Start new	ent position with a <a> <u>H</u> otspot Ocheck mark game after adding position (discards current game without saving)	

Collection: Specify the SGF file name where you want to add this position. If the file doesn't exist, it will be created.

Name: Specify the name that you want to give this position, so you can easily find it in the collection. This will set the node name. **Detail:** If the name contains a letter followed by a number from two to five digits, the number will be incremented automatically each time you add a position. For example, P0017 will become P0018.

Source: Specify where this position is from. This will set the Source field in the Game Info.

Mark current position with a Hotspot or Checkmark: Check this box to automatically add either a hotspot or a check mark at the current position, to indicate that you've added this position.

Start new game after adding position: This is a useful option when you enter multiple problems from a problem book, for example, and you immediately want to start entering the second problem after you added the first one. **Warning:** Use this option with care, as it will discard any changes to the current game without giving you a chance to save them.

3.6.9 Computer Tourney [Player only]

This feature lets you play an automated tourney between two Go programs. See <u>Go Text Protocol</u> an how to install other Go programs to play against.

Tourney	2
Play a tourney between games starting from a g collection). Optionally, t colors.	two Go programs. The programs play a number of jiven set of positions (specified as a game he programs will play each position with switched Cancel
Players	
Program (Black):	SmartGo 💙
Opponent (White):	GNU Go 3.5.5 🗸
Swap colors after	each game (play twice from each position)
Games	
Number of games:	100 (specify 0 for no limit)
<u>T</u> ime per game:	1 (1.0 is regular time, 0.5 is half the regular time)
Starting positions:	C:\Program Files\Smart Go\Tourney13.sgf

Players: Choose the two programs that you want to play against each other. The first program will start the first game playing black.

Swap colors after each game (play twice from each position): Uncheck this option to keep playing the assigned color, for instance to play a series of handicap games.

Number of games: How many games to play. Enter zero to just keep playing until you stop the tourney.

Time per game: The time per game is taken from the starting positions (see below). If the starting positions don't contain a time limit, then the standard time is 15 minutes per player for 9x9, 30 minutes for 13x13, and 60 minutes for 19x19. Enter a number less than 1.0 to speed up each game, or a number larger than 1.0 to give the programs more time.

Starting positions: To avoid two programs endlessly repeating the same games, each program plays once as black and once as white from a set of starting positions. SmartGo:Player ships with three files (Tourney9.sgf, Tourney13.sgf, and Tourney19.sgf) that contain suitable starting positions for different board sizes. You can create your own game collections with starting positions to suit your needs.

3.6.10 Options

Specify your preferences to make the program fit better with the way you work.

Defaults: Each tab has a button labeled Defaults. Clicking Defaults restores the settings on that tab to the default settings. Press OK to accept the default settings.

3.6.11 Options - View

View	General	Edit	Save	Analyze	Engine	Reset	
~ Spe	cial —						
	Color-blin	d Co (all	ctones I	ook white)			
		u 00 (uii	Stones I	ook white)			
Line	breaks in	comme	nts				
Wh	en reading	g SGF file	es, inter	pret line bi	reaks as	follows:	
	Default: Io	nore lin	e breaks	after <u>e</u> sca	ape chara	acter	
0	Ignore line	e breaks	after sp	aces (old)	WinMGT	style)	
Õ	Replace si	nale line	breaks	by spaces	(old Ishi	style)	
					`		
Mov	e tree						
	<u>S</u> how text	labels p	roperty i	in move tr	ee		
Hos	hi points—						
On	<u>9</u> x9 board	: 5	*	On <u>1</u> 3x	13 board	i: 9	*
D	efaults						

Color-blind Go: This is a fun option for playing against another person, or to make the game against the computer more challenging. Although the computer displays all stones as white, internally it remembers where the black and white stones are, and will capture stones as appropriate. Can you remember which stones are yours? We recommend starting with a 9x9 game. :-)

Line breaks in comments: Files created with other SGF editors may follow different conventions for representing line breaks in comments. If you get an SGF file where the comments look strange, with line breaks in the wrong places, one of these settings may help. Change the setting, then try to open that file again.

Show text labels: This lists any text labels in a separate entry in the move tree. This option is rarely needed, but can be useful when you are annotating games and adding text labels.

Hoshi points: For small boards, you can choose how many hoshi points to show. (Hoshi points are the small black dots on the board.)

View	General	Edit	Save	Analyze	Engine	Reset		
Startup								
Com	Computer move							
	<u>C</u> ompute d	uring of	pponent	stime				
	<u>B</u> eep after	comput	er move					
	Save gam	e after e	ach com	puter mov	/e			
	Stay on <u>m</u>	ain line	when pla	aying agair	nst comp	uter		
Оре	erator o <u>v</u> er	head pe	er compu	iter move:	0	secon	ds	
⊂ Seri	Serial port							
Port number (COM): 1								
De	efaults							

Open most recent game at startup: Turn this off if you always want SmartGo to start with an empty board rather than the most recent file you worked on.

The remaining settings are only enabled in SmartGo:Player.

Compute during opponent's time: Turn this off if you don't like the computer thinking in the background while you're figuring out your move. Turning it off will make SmartGo slightly weaker.

Beep after computer move: The computer will by default beep to alert you of its move.

Save game after each computer move: Turn this on if you want to make sure you have a record of your games against the computer. SmartGo will then ask you to save it right after starting a game. **Detail:** If you cancel the Save dialog box without naming the file, auto-save will be turned off for that game; auto-save will resume once you save the game.

Stay on main line when playing against computer: Turn this on if you like to take back moves when playing against the computer. SmartGo will automatically designate the latest move you play as the main line of play, and move your previous attempts to side branches.

Operator overhead: This subtracts the specified number of seconds from the computer's clock after each move. This is needed only if you are manually relaying the computer's moves and there is an external clock that you need to stay in sync with.

Serial port number: SmartGo supports the Go Modem Protocol, which allows you to test SmartGo against other programs supporting that protocol. Connect two computers with a serial cable, and specify "SmartGo" as one player and "Modem" as the other. Start the program playing white first, then the program playing black.

Detail: Specify "Modem: ProgramName" in the <u>New Game</u> dialog box to automatically show ProgramName as the other program's name. The serial port settings are 2400 baud, no parity, one stop bit, 8 bits.

3.6.13 Options - Edit

View General Edit Save Analyze Engine Reset
C Board
Enforce unique markups during edit (no overlap)
✓ Mark blocks that have zero liberties
Dialogs
Automatically expand Game Info dialog when appropriate
Territory
Value of each point in a moyo: 0.333
C Text Labels
<u>Convert numeric text labels to move sequence</u>
Show ghost stones while entering numeric text labels
Defaults

Enforce unique markups: The FF[4] SGF standard states that you can only have one board marking (such as triangle, square, cross, or selected) at each point. By default, SmartGo enforces the standard while you edit board marks. However, SmartGo has no problem displaying multiple marks at each point.

Mark blocks that have zero liberties: While setting up a board position, you may inadvertently create illegal positions that contain blocks of stones without liberties. SmartGo displays a zero on such blocks, and some commands put up an alert if you choose them in such a position. If you want to create diagrams illustrating the rules of Go, for example, you can disable this behavior to show zero-liberty blocks before they are removed from the board.

Automatically expand Game Info dialog: The Game Info dialog box by default hides a number of settings that are often empty, and only shows that section of the dialog when it contains relevant information. You can disable this behavior to always show the dialog in the state you last closed it.

Detail: The Game Info dialog box is automatically expanded when either source, copyright, analysis, or comment field contain text.

Value of each point in a moyo: When marking points as black or white territory, you can also mark points as moyo (potential territory). When computing the score, each moyo point is counted as a third of a point. You can adjust this factor.

Detail: SmartGo uses it's own internal factor to value moyo points, ranging from 0.40 in the opening to 0.25 in the endgame.

Convert numeric text labels to move sequence: When you enter numbers as text labels, SmartGo assumes you want to convert those numbers to a sequence of moves. You can turn off this feature.

Show ghost stones while entering numeric text labels: Numeric text labels are usually shown with ghost stones to make it easier to enter a game from a game record. You can turn off ghost stones.

3.6.14 Options - Save

View	View General Edit Save Analyze Engine Reset						
File	format —						
0	Compatibl discard cu	e: Publis	sh clean o operties	game reco	ord using	FF[<u>3</u>],	
0	Complete: backward:	: Save co s compa	omplete (tible)	game reco	ord using	FF[<u>4</u>] (r	iot
۲	Default: <u>K</u> for new fil	eep orig les	inal form	at for exis	ting files	, use FF	[4]
- Prop	perties						
	Ignore <u>u</u> nl	known p	roperties	;			
	<u>C</u> ompress	ed point	lists (mo	ore compa	ct, less c	ompatib	le)
	Create pro	operties	for captu	ired <u>s</u> tone	s		
	Write star	ndard <u>G</u> o	coordina	ates to ma	nually ed	lit SGF fi	les
Wa rea pro	rning: File d by Smar grams.	s written tGo, but	with sta are not o	andard coo compatible	ordinates e with mo	can be ost other	
D	efaults						

When saving a game (see <u>Save As</u> 22 command), you can choose between version 3 and version 4 of the SGF file format. By default, files retain their original file format when you save them, but you can choose to save files in either version.

Compatible: Always saves files using FF[3], unless you explicitly change it in the Save As dialog box. Files in FF[3] are most compatible, but some properties will not be saved. For details, see SGF File Format^[78].

Complete: Always saves files using FF[4], unless you explicitly change it in the Save As dialog box. Some SGF viewers may complain about some of the new FF[4] properties.

Default: The recommended setting. It saves old files in their original format, and saves new files using FF[4].

Ignore unknown properties: By default, unknown properties are read and then saved unchanged to preserve files created by other SGF editors. You can turn this on to ignore any unknown properties.

Compressed point lists: This makes FF[4] files smaller, sometimes substantially smaller, especially if the file contains territory markings or partial board views. However, some older SGF viewers have problems with such properties. (This setting has no effect when saving as FF[3].)

Create properties for captured stones: When writing the game, all the captured stones are computed and stored in the file using the E[] property. This slows down saving significantly. You can use this to create files for simple viewers that don't know how to capture stones.

Write standard Go coordinates: See <u>SGF with Standard Coordinates</u> for more information.

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3.6.15 Options - Analyze [Player only]

View General Edit Save Analy	ze Engine Reset				
⊂ Save computer analysis					
Save score estimate for each cor	nputer move				
Save move motive of each comp	uter move played				
Save territory and expected move	es as diagrams				
Save move motives of all comput	er moves considered				
Time limits]				
Time for ' <u>A</u> nalyze Position': 5	seconds				
Time for 'Play One Move': 20	seconds				
Time for tactical analysis: 15	seconds				
Defaults					

Save score estimate: SmartGo saves the estimated score at each point in the game, and displays that score in the main toolbar and the score view. If you don't want to see that score, or don't want it included in the game record, turn this option off.

Save move motive: Turn on move motives if you're interested in getting an idea of why the computer looked at the move it chose. The motive for each computer move will be shown in the tree view. Some of the motive descriptions are cryptic and may not make sense to you, but in many cases they should provide you with some clue as to what the computer was thinking.

Save territory and expected moves: If you want even more information about what the computer is thinking, this option will create a separate diagram node for each computer move. The diagram will show territory, group status, and expected move sequence. After the game, you can use Previous/Next Diagram on the Diagram toolbar to look through the evolving groups during the game. **Warning:** Turning this option on makes files significantly bigger. Use Edit > <u>Delete Properties</u> to delete unwanted properties and reduce file size.

Save move motives of all moves: At the expense of making files even bigger, this saves all the moves investigated at each position, together with their motives.

Time limits: Changes the time to use for the different computer analysis commands.

3.6.16 Options - Engine [Player only]

View General Edit	Save /	Analyze	Engine	Reset	
Install other Go engin	es				
<u>G</u> o Text Protoco	l Engines				
SmartGo engine					
The settings below a	ffect Smart	Go's pla	ying stre	ngth and	
style. Feel free to ex Defaults to restore th	periment w ie original s	ith differ settings.	ent value	es; click	
	Fewer			More	
Top-level <u>m</u> oves:	с	(
Eollow-up moves:		(<u>, , ,</u>		
Local moves:		(]		
Tactical nodes:			· · ·		
	1 1 1	· · · `	ř. i i	1 1 1	
Defaults					

Go Text Protocol Engines: Click here to connect SmartGo to other Go programs that implement GTP $(\underline{\text{Go Text Protocol}}_{54})$, such as GNU Go, for example. In the New Game dialog, you can then choose to play against any of those programs.

SmartGo engine: You can adjust some of the settings of the SmartGo playing engine, in particular how many moves to look at under various circumstances, and how many tactical nodes to look at for block capture problems. Increasing these numbers makes SmartGo more likely to evaluate the position correctly, and consider important moves; however, it will have less time to look far ahead. Decreasing these numbers makes SmartGo look further ahead; however, it may miss key moves. **Detail:** The Smart Go web site contains detailed information on how SmartGo works (see www.smartgo.com/details.htm).

3.6.17 Go Text Protocol [Player only]

The Go Text Protocol (GTP) is a relatively new protocol that's emerging as a standard for Go programs to communicate with each other. SmartGo can act as a client for GTP-enabled programs; it's not working as a server yet. So you can use the SmartGo user interface to play against some other programs such as GNU Go (see <u>http://www.gnu.org/software/gnugo/gnugo.html</u>), a strong Go program that's available for free.

Choose Tools > Options > Engine 54 > Go Text Protocol Engines to get the following dialog:

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¢	io Text Prote	ocol			
	<u>G</u> o Text Protoco	l (GTP) engines:			ОК
	Name	Executable	Command Line Options	Status	
	GNU Go 3.4 GNU Clone GNU Go 3.5.3 Aya 5.29 Max <none> <none> <none> <none></none></none></none></none>	C:\Program Files\GnuGo\gnugo.exe C:\Program Files\GnuGo\gnugo.exe C:\Program Files\GnuGo353\gnugo.exe C:\Program Files\Aya529\aya529e\Aya.exe	gnugomode gtp wrong options gnugomode gtp ayamode gtplevel max	OK: GNU Go 3.4 GTP not working OK: GNU Go 3.5.3 OK: Aya 5.29	Edit
	<none></none>				
	<none></none>				<u>R</u> emove
	<u>Links to more G</u>	<u> FP engines (www.smartgo.com/gtp.htm)</u>			

You can install up to 10 different Go engines. Click on "Links to more GTP engines" to go to SmartGo's web site with an updated list of engines that are compatible with SmartGo. Click on an item in the list to select it, then choose Edit to change it (select <none> then click Edit to add a new engine):

Edit GTP Engine		
Name:		ОК
<u>E</u> xecutable:		Cancel
C:\Program Files\GnuGo\gnugo.exe	<u>B</u> rowse	
Command line options:		
gnugomode gtp		

Name: Enter the name you want to appear in the dropdown menu in the <u>New Game</u> 18 and <u>Tourney</u> 47 dialogs.

Executable: Enter the path where the executable can be found.

Command line options: Enter the command line options to pass to the engine to start it in GTP mode. **Detail:** It's necessary to add an arbitrary word before "--mode gtp" due to the way this gets passed to the Windows CreateProcess API. Use "gnugo --mode gtp", for example.

Once you click OK and get back to the previous dialog, SmartGo will try to communicate with that engine, and will report back whether the connection is okay, and which program and version you're connected to. After that, just click OK, and choose New Game to play against that Go program.

3.6.18 Options - Reset

View	General	Edit	Save	Analyze	Engine	Reset	
Click the button below to associate SGF files (.sgf, .sgc, .sgd, .mgt, and .prb) with this version of SmartGo. Also associate Ishi .go files with SmartGo Associate SGF with SmartGo							
Reset all settings Warning: This will remove all the SmartGo registry entries that contain your personal SmartGo settings and preferences, and restores the default settings when you first started SmartGo.						:5	
Restore Factory Defaults							

Associate SGF with SmartGo: If you want SmartGo to start when you double-click on an .sgf file, click this button. This will also associate .mgt and .prb files with SmartGo (which are just SGF files in disguise) as well as .sgc and .sgd. You can choose whether you also want to associate .go files (the old Ishi format) with SmartGo.

Restore Factory Defaults: When you feel you've messed things up and just want to get all the settings back to their original state, click this button. You should then exit and restart SmartGo to let all the default settings take effect.

Detail: Your settings are stored in the Windows registry under HKEY_CURRENT_USER > Software > Smart Go > SmartGo > Settings.

3.7 Help Menu

This section explains each command in the Help menu.

? SmartGo <u>H</u> elp	F1
www: <u>S</u> martGo	
www: <u>G</u> o Links	
www: American Go A	ssociation
www: Sensei's Library	/
About SmartGo	

3.7.1 SmartGo Help

Starts the SmartGo Help file (SmartGo.chm). This file needs to be in the same folder as the SmartGo executable.

3.7.2 www: SmartGo

Starts your web browser and brings you to <u>www.smartgo.com</u>.

3.7.3 www: Go Links

Starts your web browser and brings you to <u>www.smartgo.com/links.htm</u>. That web page contains up-todate links to interesting web sites about Go.

3.7.4 www: American Go Association

Starts your web browser and brings you to the home page of the American Go Association (<u>www.usgo.org</u>) with a wealth of information about Go.

3.7.5 www: Sensei's Library

Starts your web browser and brings you to Sensei's Library (<u>senseis.xmp.net</u>), a great collaborative web site about all aspects of Go.

3.7.6 About SmartGo

This dialog box shows the version of SmartGo, the release date, copyright information, and provides access to the license agreement you accepted when you first started SmartGo.

About S	martGo			? 🛛
	smartg	•:player)		
(SmartGo:Player (TM) Ve Copyright © 2002-2004 Smart Go, Inc. Professional Game Collection © 2001-2 View License Agreement	rsion All rights reserved. 2004 Charles G. Robbins. <u>www.smartg</u> e	Date	ОК
	Program Design and Implementation: Graphic Design: GoTools Life & Death module: Testing, feedback, and bug reports: 9x9 opening library thanks to:	Anders Kierulf @ Smart Go, Bjorn Kierulf @ Bendis & Kie Thomas Wolf Thanks to numerous beta te Kiseido Go Server	Inc. erulf esters!	

Anders Kierulf is the author of SmartGo. Read more about him at <u>www.smartgo.com/t_anders_kierulf.htm</u>.

Bjørn Kierulf (Anders' brother) designed the Smart Go logo and web site and is responsible for the graphic design of the SmartGo program. His company Bendis & Kierulf does award-winning industrial design; check it out at <u>www.bendisandkierulf.com</u>.

[Player only] SmartGo's Life & Death module is based on GoTools developed by **Thomas Wolf**. SmartGo has acquired non-exclusive rights to the source code and has converted the original Pascal code to C++. Over time, we expect the GoTools code to become more tightly integrated with the rest of SmartGo. Thomas Wolf's web site at <u>lie.math.brocku.ca/gotools</u> has more information on GoTools; his standalone GoTools program has a number of features SmartGo doesn't provide.

A number of **beta testers** provided valuable feedback, suggestions, and bug reports. We sincerely appreciate their help; their names are listed at <u>www.smartgo.com/beta.htm</u>.

A library of high-dan 9x9 games played on the Kiseido Go Server (<u>kgs.kiseido.com</u>) are built in to SmartGo to generate better and faster opening moves for 9x9 games. Thanks to Bill Shubert for providing these games.

3.8 Board Popup Menu

When you right-click on the board, a popup menu gives you access to a few commands that apply to the point you clicked on. The menu differs depending on whether you clicked on an empty point or a stone.



3.8.1 Bad Move

Click on a stone: This marks the move you clicked on as a bad move. This does not necessarily have to be the most recent move, you can mark a move several moves back. Note that this also works during <u>automatic replay</u> [43], and doesn't interrupt the replay.

Click on an empty point: This adds a next move at that point and marks it as a bad move, or, if there already is a next move at that point, marks that move as bad.

3.8.2 Good Move

Works the same way as <u>Bad Move</u> [58], except the move is marked as a good move.

3.8.3 Mark Point/Stones

Click on a stone: Marks all the stones in that block with triangles.

Click on an empty point: Marks that point with a cross.

Detail: If you change the tool in the Mark toolbar to mark squares, crosses, diamonds, or circles (not triangles), then this command will also use that setting.

3.8.4 Edit Label

Displays a dialog box to add a label at that point. See <u>Mark toolbar</u> for more information. Also see <u>Fancy Text Labels</u> for advanced text label features.

3.8.5 Label as Number

This labels the stone with its move number.

3.8.6 Show Joseki

This turns on joseki matching for the corner where you right-clicked. This is equivalent to turning on joseki matching using the Library toolbar 73.

3.8.7 Go To Move

Goes to the position where a move was played at that point. Note that holding down the <u>Alt-key</u> |75| and clicking on the board provides the same function and gives more feedback.

3.8.8 Add Alternate Move

Adds a new move as an alternate of the current move. This can be particularly convenient when showing alternate rather than next moves (see <u>Markup Style</u> 35).

Keyboard: Another way to add alternate moves is to hold down the Ctrl key while entering a move.

3.8.9 Play Illegal Move

To play an illegal move (for example, taking back a ko immediately), right-click on that move and choose Play Illegal Move. The illegal move will be played as defined in version 4 of the $\underline{SGF File Format}$ (Note that this command doesn't appear on the pop-up menu unless a move at that point is actually illegal.)

3.9 Games List Popup Menu

When you right-click on the list of games, a popup menu gives you access to a few commands that apply to the game you clicked on.

₭ Mark Game
🗸 Check Game
Unmark Game
Delete Game
Add File
Add Folder
Save Game As

This marks the game with a hotspot. The hotspot property is added to the root node of the game, and is shown in the first column in the games view. Use this to mark games for later review, for example; choose Replay > $\underline{Find}^{[41]}$ to search for games marked with a hotspot.

Detail: You can also add a hotspot to the root node of a game by using the hotspot icon on the <u>Annotation toolbar</u>. That way, you can also add double hotspots.

3.9.2 Check Game

Just like <u>Mark Game</u>, but marks the game with a check mark instead of a hotspot. Use this to mark games you have reviewed, for example.

Note: You can sort games by their markings by clicking on the header of the first column containing the game number and mark.

3.9.3 Unmark Game

Removes hotspots and checkmarks from the root node of the current game.

3.9.4 Delete Game

Deletes the current game from the game collection. If you later save this collection of games, that game will no longer be part of the collection.

Note: This does not affect any games on disk that you opened with Open Folder 20.

3.9.5 Add File

Like <u>File Open</u>, but adds the game to the current game collection. Or if the file you specified contains a collection of games, then all those games are added to the current game collection.

3.9.6 Add Folder

Like <u>Open Folder</u>, but adds the games in that folder to the current game collection instead of starting a new collection.

3.9.7 Save Game As

This is a convenient way to save a single game to a separate file. It works like Save Selected Games As 2^{2} if multiple games are selected.

Note: Games from the game collection included with SmartGo (in SGD format) can be saved one at a time. On the Library or Matching tab, right-click on a game, and choose Save Game As to save it as a regular SGF file. However, to protect the copyright and investment in the game collection, saving such library games in bulk is not supported.

3.10 Games Header Popup Menu

When you right-click on a column header in the games view, a popup menu lets you add or remove columns. New columns are added as the rightmost column; you can drag the column headers to change the order of columns. **Note:** The Matching tab has a few additional columns explained in

Library toolbar

	Game ID
•	Black Player
	Black Rank
•	White Player
	White Rank
•	Result
	Winner
	Loser
	Score
	Date
	Place
	Event
	Round
	Time
	Rules
	Source
	Handicap
	Komi
	Board Size
	Game Comment

4 Toolbars

This section explains each toolbar button. The toolbars are listed in the same order as they are shown in the user interface.

4.1 Main Toolbar

The main toolbar contains buttons manipulating files and performing common commands.

New Game: See the <u>New Game</u> menu item.

Open: See the <u>Open</u> wenu item.

- Save: See the <u>Save</u> 21 menu item.
- **i** Game Info: See the Game Info²⁹ menu item.

Pass: See the Pass 40 menu item.

The next button changes its icon depending on the contents of the current node:

Delete Last Move: Deletes the most recent move played if it's the last move of a sequence. This command is disabled if you're in the middle of a sequence, so you can repeatedly delete moves on a side branch until you're back on the main branch. (Use Edit > Delete Move at to delete a move in the middle of the game.)

Delete Territory Marks: If the current move has territory marks, the Delete Last Move button becomes Delete Territory Marks and will just delete territory markings, not the move. This is an easy way to clean up the board after Tools > <u>Analyze Position</u> 45.

The indicator at the right of the main toolbar shows either the score estimate or the prisoner count. Click the indicator to show a menu to choose what to display. The score (when $\frac{\text{marking territory}}{\text{marking territory}}$) can be counted either Chinese or Japanese style. If no territory has been marked at that position yet, checking "Show Score" estimates and shows the territory, using the same estimate as $\frac{\text{Mark Enclosed Territory}}{100}$. You can change the marked territory using the $\frac{\text{Mark toolbar}}{100}$.

 Show Score (Chinese Style: Area + Stones) Show Score (Japanese Style: Area - Prisoners)
 Show Prisoner Count (Difference Black / White)

Score Estimate: SmartGo changes the icon to indicate whether black or white is ahead.
 Prisoner Count: SmartGo shows the difference in black and white prisoner count, and changes the icon depending on whether black or white has more prisoners.

4.2 Black/White Player Toolbar

The Black/White Player toolbars show whose turn it is to play, which color the computer is playing, and the players' names.



Black player: Click to set black to play (after setting up a position, for example).

White player: Click to set white to play.

Click on the player name to show a menu that lets you change the player's name (using the <u>Game Info</u> dialog box), or to let the computer play that color [*Player only*]. This is equivalent to Play > <u>Computer Color</u> [41]. Note that the preferred way to start a game against the computer is to choose File > <u>New Game</u>¹⁸.

i	Black Player Name
	Computer Plays Black

SmartGo changes the icon to indicate which color SmartGo is playing:



Known issue: If there's an ugly gap between icon and player name, you can upgrade your Internet Explorer from version 4 to version 5 or later to fix that.

4.3 Black/White Time Left Toolbar

Click to change time left (see <u>Time Left</u> |40|).

Black Time Left.

^O White Time Left.

The Time Left toolbars are shown automatically if a player is keeping track of time, and hidden otherwise. If the toolbar is hidden and you want a player to start keeping track of time left, choose Play $\geq \underline{\text{Time Left}}_{40}$.

4.4 Lookahead Toolbar [Player only]

The Lookahead toolbar shows details about the computer's thinking: how many seconds it's been computing so far; how many full-board positions it has evaluated (E); the speed given in evaluations per second; and the search depth and number of top-level moves examined at that depth (D).

Stop Search: Stops the current search. This is identical to Play > Stop Clock 3.

4.5 Score Toolbar

The score toolbar shows the score at each point during the game. It also indicates where you are on the main line of play, and makes it easy to go to a specific point in the game.



Vertical black lines mean black is ahead, white lines mean white is ahead. Each horizontal white line represents 10 points; the score graph automatically scales to show the whole range of scores. Click on it to go to a specific point in the game, or drag to replay the game.

If the game doesn't contain any scores, the score graph shrinks to only show the main line of play, and your current position. The triangle points down and changes to dark gray when you're exploring a variation.

When playing a game against the computer, the scores are automatically saved with the game (unless you turn it off in Tools > Options > $\underline{\text{Analyze}}_{53}$), and you'll see how the computer thinks you're doing. You can also use Tools > $\underline{\text{Analyze}}_{46}$ to have the computer assess each position in one of your games.

Note: Scores on variations are not shown, only scores on the main line of play. You can use Edit > $Make Main Line^{34}$ to promote a variation to be the main line.

4.6 Navigation Toolbar

The blue Navigation toolbar contains the main controls for navigating in the game. Other ways of navigating include using the arrow keys (shown in parenthesis below), rolling the mouse wheel, clicking on a node in the tree view $\begin{bmatrix} a \\ b \end{bmatrix}$, Alt-clicking on the board $\begin{bmatrix} 75 \\ 75 \end{bmatrix}$, clicking on the Score toolbar $\begin{bmatrix} 63 \\ 63 \end{bmatrix}$, and using Find $\begin{bmatrix} 41 \\ 41 \end{bmatrix}$ to search for text or properties.

Note that many of these buttons auto-repeat if you hold them down. (If they don't, you can upgrade your Internet Explorer from version 4 to version 5 or later to fix that.)

Back to Main Line of Play (Ctrl+Up Arrow): This command returns you to the main line of play after exploring variations. This control is active only when you're on a side branch. (If you're on a side branch and want that branch to become the main line of play, choose Edit > Make Main Line 34.)

I Go to Start of Game (Home)

Go Backward 10 Moves (Page Up)

Go to Previous Move (Left Arrow)

42 Current Move Number: The current move number is shown between the Previous and Next Move icons. Click it to display the Find dialog box 41. When exploring a variation, and

"<u>Start Variations at 1</u>^[6]" is turned on in the move numbering dropdown on the View toolbar, it will show "M+N", where M is the move number at which you branched off from the main line of play, and N is the number of moves played since then. At diagrams, it will show the From-To move numbers shown in the diagram.

When going forward in the game, the first branch (the main line of play) is chosen automatically when there are several different moves.

So to Next Move (Right Arrow)

- ✤ Go Forward 10 Moves (Page Down)
- [→]I Go to End of Game (End)

Automatic Replay (F5): Click this button to start/stop automatic replay. Choose among three speeds in the dropdown menu. See <u>Automatic Replay</u> 43 for more information.

Keyboard: The keyboard shortcut for each command is given above. Note that the board needs to have the focus for the keyboard shortcut to work; if the comment view has the focus, the arrow keys perform their normal text editing functions (see <u>Keyboard Focus</u>). Three additional commands are available through keyboard shortcuts:

Go to Next Alternative (Down Arrow): This command brings you to the next alternate of the current move. This command is active only immediately after a branch point. If you're at a branch point and see the next moves shown as a, b, and c, for example, go one move forward (this chooses a), then use the Down arrow repeatedly to go to b, then c, and then a again, which may help you compare the position after different moves.

Go to Previous Alternative (Up Arrow): Similar to Go to Next Alternative, but goes through the alternatives in reverse order.

Go to Previous Branch (Ctrl+Left Arrow): Goes to the previous point in the game that has two or more next moves, or to the start of the game if there are no earlier branches.

Go to Next Branch (Ctrl+Right Arrow): Goes to the next point in the game that has two or more next moves, or to the end of the game if there are no more branches.

Go Back (Alt+Left), Go Forward (Alt+Right): These keyboard shortcuts act like the back/forward buttons in the browser, taking you to nodes you visited recently. **Warning:** This feature is experimental and not fully supported at this point. Use it if it works for you, and let us know whether you like it.

Hint: If your mouse includes a scroll wheel between the two buttons, you can spin the wheel to move forward and backward in the game. The roller on the left side of the Microsoft Office Keyboard works even better for replaying the game. The <u>Use Find Next</u>^[43] setting in Auto-Replay also affects the behavior of the scroll wheel.

Detail: The behavior of Back to Main Line and Go to Previous/Next Branch depends on whether next or alternate moves are shown. If next moves are shown, these commands go to the move before the branch; if alternate moves are shown, these commands go to the move after the branch.

4.7 Find Toolbar

The blue Find toolbar provides commands to search for text and properties, and to navigate through a whole tree of variations.

Property to Search For: The dropdown menu lists various properties to search for. Choose **Find** to display the Find dialog 41. Choose **Every Node** to simply traverse all variations of the game node by node. (Please let us know if there are additional properties for which you'd like to search.)

Blunders: When set to search for blunders, the computer looks for moves where the score changes drastically. This only works in a game that contains the score for every move, such as a game played against the computer, or a game analyzed with Tools > $\underline{\text{Analyze Game}}$. In many cases this will indeed find poor moves, either by you or by the computer, but in some cases the change in score just means that the computer finally realized the true state of the board.

Detail: When search is set for Ko Captures, the ko point is highlighted with a blue dot.

M	Find Every Node
ž	Annotations Comments
" "	Node Names
Å A	Board Marks Triangles
 	Hotepote
$\mathbf{\hat{\mathbf{v}}}$	Check Marks
!	Good Moves
?	Bad Moves
i	Game Info
	Diagrams Territory Marks
٩	Position Setup
•	Black Moves
0	White Moves
•\$8	Ko Captures
Pass	Pass / Coupon
~=	Branch Points
-1	End Points
£	Blunders

 Find Previous
 Image: Second Secon

Where to Search: This menu lets you restrict where to search: Only in the main line of play, only in variations, or only in a certain range of move numbers.



Search Variations Before Continuing With Main Line of Play: The normal search order is to explore to the end of the current line of play, then go back to the most recent branch point, explore to the end of that branch, and so on. When this option is enabled, SmartGo explores branches before continuing with the main line of play.

Search All Games in Game Collection: When a game collection is open, you can limit search to only the current game, or you can search all the games in the collection.

4.8 Rotate Board Toolbar

The Rotate Board toolbar lets you change the orientation of the board. This command is useful when a game was recorded as seen from the side and you want to show it as seen by one of the players, or

when you want to view and print the board as seen by your opponent.

The following commands change all the coordinates in the entire tree of moves, including markups such as triangles and crosses, but they don't change coordinates mentioned in comments.

- Transpose Game to Opponent's View
- F Rotate Game Counter-Clockwise
- Rotate Game Clockwise
- Mirror Game Vertically
- * Mirror Game Horizontally

Switch Black and White: You can switch black and white to transpose a problem to the other color, for example. This command operates on the whole game tree, and will also switch color-specific properties such as territory, for example. However, it doesn't change comments that refer to "Black" or "White".

4.9 Mark Toolbar

The Mark toolbar lets you mark points on the board with symbols such as triangles or crosses, add text labels, and mark (as well as count) black and white territory. You can also change the position by adding or removing stones. Click to mark individual points; drag to mark multiple points. You can also change the position by adding or removing stones.

Keyboard: The Shift key switches between black and white, that is, if you're marking black territory, hold down the Shift key to mark white territory. The Ctrl key is used to mark a rectangle. The Ctrl key also marks a whole block of stones rather than just a single point. For example, to mark a whole block with triangles, hold down the Ctrl key and click on any stone in the block.

Add/Remove Black/White Stones: See the equivalent <u>menu command</u> and in the Play menu.

A Add/Remove Text Labels: Click a point to display a small text edit box at that point. Type in the label, then press Enter. To erase a label, delete the text in the edit box and press Enter. To enter a label at a different point, you can use the arrow keys or Tab/Shift-Tab. Default labels are A, B, C (just click each point you want to label), but you can enter text labels of any length. SmartGo shows as much of the label as fits, and shows the entire label in a tooltip.

- You can also type Fancy Text Labels 76.
- You can use text labels to easily <u>enter a game a game a printed game record</u>.
- You can also <u>right-click</u> ^[59] on a point to enter a text label.

Mark Triangles / Squares / Crosses / Diamonds / Circles: These marks make it easy to highlight stones or points on the board that you can then refer to in a comment. Each point can have only one mark by default, but you can turn off Enforce unique markups in the Options dialog box to allow multiple marks per point.



Mark Dimmed: Marks areas of the board as dimmed. Note that the dimmed area remains dimmed for subsequent moves. If you want an area to be dimmed for a single move or a range of moves only, you can clear or change the dimmed area at a later move.

Mark Selected: Marks areas of the board as selected (shaded darker than other points). Use Ctrl to select a rectangle.

Delete Labels & Marks: This deletes all the labels and marks from the current node.

Note that the <u>currently chosen mark</u> can also be added using the right-click menu.

Mark Black/White Territory: Marks territory as controlled by black or white, and counts the territory (the score is shown in the Main toolbar (32)). Click the score display to choose between Chinese and Japanese counting methods. Note that the territory markings are emphasized to clearly show the territory while you're in territory marking mode; the markings becomes more subtle when you turn off territory marking mode. Hint: Use the Ctrl key to mark a whole block or a rectangle.

Mark Enclosed Territory
 Mark Black Territory
 Mark White Territory
 Mark Moyo Territory
 Mark Unsettled Area
 Mark Ko Territory
 Delete Territory Marks

Mark Enclosed Territory: When the game ends, this mode automatically marks completely enclosed territory. If the program doesn't correctly determine dead stones, click dead stones to mark them as dead, or click an enclosed area to mark it with a certain color. The score as determined by the territory markings is shown in the <u>Main toolbar</u> $\overline{62}$; you can choose to count it Chinese or Japanese style. *[Player only]* You can also choose Tools > <u>Analyze Position</u> $\overline{45}$ to make SmartGo evaluate the position and mark the territory.

Mark Moyo Territory: Marks points as moyo (potential territory); this is shown with a subtle hatch pattern. Points that are part of a moyo are by default counted as one third of a normal point; you can adjust that factor in Tools > Options > $Edit_{51}$.

Mark Unsettled Area: Marks stones or points as unsettled. Unsettled area is not counted for either player, as its status depends on who plays there next. **Keyboard:** Hold down Shift to mark blocks as tactically, rather than strategically, unsettled.

Mark Ko Territory: Marks stones or points as dependent on winning a ko. Such points are shown in blue. Note that SmartGo distinguishes two ko states: Favorable for black (black can play to live, white can make a ko), or favorable for white (white can live, black can make a ko), and the two markings use a slightly different shade of blue. **Keyboard:** Hold down Shift to mark as favorable for white, release

Shift to mark as favorable for black.

Delete Territory Marks: Deletes all the territory marks from the current node.

4.10 View Toolbar

The View toolbar lets you change how the game is displayed on the board.

Show Board Coordinates: Toggles display of the standard board coordinates around the board (A to T (skipping I) from left to right and 1 to 19 from bottom to top).

Show Diagram Caption: Toggles display of the diagram caption below the board, which shows the diagram name and any moves that can't be shown as numbers on the board. This is enabled by default when you add diagrams to a game. The diagram caption also shows the node name and comment for each node.

Partial Board: To only see or print part of the board, click this icon, and then drag out the rectangle you want to see. The partial board is shown until you toggle this mode by clicking on this icon again.

Bhow Board Marks: Toggles display of board marks such as triangles, crosses, and text labels.

Automatically Mark Moves with Letters: Toggles display of the next or alternate moves (a, b, c on the board). Lowercase a, b, c are the default way of showing the next move, while uppercase A, B, C are the default for showing alternate moves. Other choices are available in the Markup Style showing alternate moves, the move actually played is shown as @.

Guess Next Move: Click the Mark Moves with Letters dropdown and choose Guess Next Move to enable Guess Next Move mode. In this mode, if you guess the next move correctly, then the move is played, otherwise an X is shown at that point and you can keep guessing. If you run out of guesses, just click is to play the next move.

Solve Problems: See <u>Problems toolbar</u> for more on the problem solving mode.



Show move number: Toggles display of move numbers. The dropdown menu lets you choose different ways to number moves.



SmartGo numbers the last two moves by default, but you can choose to see no move numbers, the

last move only (either marked or numbered), or all move numbers. When starting variations at 1, numbering all moves shows you the moves played since branching off from the main line of play. (Note: To split a game into diagrams showing move numbers, see <u>Create Diagrams</u> 1.)

Show Computer Lookahead: [*Player only*] Toggles display of the computer's opinion of the board. You can choose the level of detail of what the computer is thinking about while it's determining its move. Note that changing this menu while SmartGo is thinking doesn't cause the display to be updated immediately; however, the display will be shown correctly on the next move. Unsettled groups are shown with a red outline; groups that depend on winning a ko are shown with a blue outline.

Show Computer Lookahead
A Show Top Level Moves
Show Move Sequence
III Show Territory
O Show Unsettled Groups
Show Unsettled Blocks
Show Unsettled Ko

4.11 Comment Toolbar

The comment area is embedded in a toolbar. It can be resized by dragging at the bottom or right of all the toolbars (see <u>Screen Layout</u> $\lceil 7 \rceil$).

Keyboard: The arrow keys are normally used to replay the game, but while the focus is in the comment area, the arrow keys perform text editing functions. See <u>Keyboard Focus</u> for more information. Note that you can simply start typing to enter comments, regardless of the current keyboard focus.

Detail: When showing the start of a game, the comment view may show the game comment (entered as part of the <u>Game Info</u> 29) as well as the regular comment, separated by a line of special characters.

4.12 Annotation Toolbar

The annotation toolbar makes it easy to mark moves or positions. You can use the Find toolbar and tool

Hotspots and checkmarks: You can use hotspots and checkmarks to mark unclear positions for further study, to mark interesting positions in a game, or to mark positions for your Go teacher to review and comment on. Hotspots and checkmarks are shown in the tree view next to the nodes. **Note:** Hotspots and checkmarks in the root node of a game are also shown in games view. **Keyboard:** Hold down Shift while you click the buttons to mark double hotspots and double checkmarks.

***** Mark Position with Hotspot

✓ Mark Position with Checkmark

Annotate positions: Positions can be marked as good for black, good for white, even, or unclear. Any such valuation of the position is shown where the <u>score estimate</u> is usually shown in the Main toolbar, and overrides any score estimate.

Keyboard: Hold down Shift while you click the buttons to emphasize position markings: very good, very even, or very unclear.

Mark Position as Good for Black

🕀 Mark Position as Good for White

Mark Position as Even

[≈] Mark Position as Unclear

Annotate moves: You can mark moves as good (!) or bad (?), very good (!!) or very bad (??), interesting (!?) or doubtful (?!). These move annotations are shown directly on the board, as "42!" or "a?", for example.

Keyboard: Hold down Shift and click the Good Move button once to mark a very good move, twice to mark an interesting move. Shift-click twice on Bad Move to mark a doubtful move (a trick move, for instance).

! Good Move

? Bad Move

4.13 Diagram Toolbar

The Diagram toolbar contains buttons for creating diagrams such as those that appear in Go books. For an overview on how diagrams work in SmartGo, see <u>Create Diagrams</u>.

🕮 Insert New Diagram: See the Insert New Diagram 🔊 menu item.

E Diagram Settings: See the Diagram Settings 37 menu item.

Use the following buttons to adjust the starting and ending points of diagrams. Adjusting the end point of one diagram adjusts the starting point of the next diagram automatically, so it's easy to find the right places to split the game. (Note that these buttons auto-repeat if you hold them down.)

- 🔁 Start Diagram Earlier
- 造 Start Diagram Later

Use the following buttons to switch from one diagram to the next.

- Find Previous Diagram
- Find Next Diagram

Detail: The Next/Previous Diagram functions are equivalent to the Find Next function searching for diagrams with 2 Search Variations First and enabled.

4.14 Problems Toolbar

The Problems toolbar contains buttons to help you work through collections of problems. You try out the move that you think will solve the problem, and SmartGo automatically replies, and keeps track of how many problems you've solved correctly.

For this feature to work, you need a collection of properly set up problems. Many Faces of Go ships with a collection of .prb files; open one of those, and SmartGo automatically enters problem solving mode. SmartGo also works with problems provided with UliGo (see <u>www.u-go.net/uligo</u>). Or go to <u>www.goproblems.com</u> and download more than a thousand problems from that site. Use File > <u>Open Folder</u> [20] to combine the individual problems into a single file, then choose View > Problem Solving to enter problem solving mode. **Detail:** Note that SmartGo doesn't compute the moves to play; it only picks among the moves stored in the problem file.

Problem Solving Options: Click this button to turn problem solving mode on or off. Click on the dropdown arrow to get the following menu:
Problem Solving

- Present Problems in Random Order
- Repeat Missed Problems
- Random Orientation & Color
- Random Choice of Correct Answers
- Hide Red Dots at Current Move
- Treat Triangles as Bad Moves

Reset Statistics for This File

Present Problems in Random Order: Problems can be presented in random order, or in the sequence in which they appear in the file.

Repeat Missed Problems: When this option is checked, the problems you missed the first time will be presented again after you've gone through all the problems.

Random Orientation & Color: Problems will be randomly rotated, and black and white may be switched. Turn this option off if the comments refer to "Black" or "White" or depend on orientation like "on the right side".

Random Choice of Correct Answers: When there are multiple correct choices, SmartGo will choose one at random, rather than always choosing the first one.

Hide Red Dots at Current Move: Some problems at goproblems.com mark all the current moves with a red dot, unfortunately. Check this option to avoid those red dots obscuring the move number. **Treat Triangles as Bad Moves:** In problems set up for UliGo, bad moves are marked with triangles. Check this option to handle those kinds of problems correctly.

Reset Statistics for This File: Choose this menu item to clear the statistics stored with this file. **Detail:** SmartGo uses checkmarks to mark problems solved correctly, hotspots to mark problems solved where you made a mistake.

Back to Start of Problem: Go back to the start of the problem.

Back to Previous Choice: Go back two moves to the previous position where you had a choice of where to play.

The status indicator shows whether you're still on track or played a wrong move. Click the status indicator to see the correct solution.

Your Move: It's your turn to pick the best move. The icon indicates whose turn it is to play.

Solved: You've correctly solved the problem.

Wrong: You've played a wrong move. Go back to the previous choice and try again.

Next Problem: Goes to the next problem in the file.

On the right side of the toolbar, it shows how many problems you've solved correctly out of the total number you've tried. If you save a problem file after working on some of the problems, SmartGo will remember which problems you've already gone through, and which ones you solved correctly.

Hint: You can also use the problem solving mode to guess moves in a professional game, and have SmartGo play the opponent's moves. Open a professional game, go to either a black or a white move (depending on which side you want to guess), and then turn on problem solving mode.

Detail: After you play your move, SmartGo plays the problem reply after a brief delay. If the current move has a comment, that delay is longer. You can adjust those delays by adding the following DWORD keys to the SmartGo registry settings [32]: "DelayNoComment" (default 200 = 0.2 seconds) and "DelayAtComment" (default 2000 = 2 seconds).

4.15 Library Toolbar

The Library toolbar provides access to the library of games functions. You can match the current position in your game against the positions in any of the games in your library of games. You can match the whole board, or just part of the board, such as a corner, for example.

Library of Games: Shows the Library of Games 22 dialog box.

Fuseki Matching: Turn on fuseki (whole board) matching. This is particularly valuable in the first dozen moves to find out where your play deviated from professional play, and what other move you might have played. Or you can explore all the variations of your favorite opening.

Joseki Matching: Turns on joseki (corner area) matching. The dropdown menu provides several choices for what to match:



- Near Last Move: Tries to match in the corner area related to the most recently played move. This is
 a useful mode when you're replaying your game and want to keep checking joseki as they develop in
 your game. The area for matching is dynamically determined.
- Top Left / Top Right / Bottom Left / Bottom Right Corner: Match in the specified corner. The area for matching is automatically determined based on the stones in that corner.
- In Selected Area: If the automatically determined area for matching is not suitable, you can choose to match in the selected area, and modify the selection. This mode is automatically chosen when you click on the Modify Selected Area button described below.

Tenuki Percentage: This button shows the percentage of moves that were played elsewhere in this position. If it's near zero, you should continue to play locally. If it's close to 100%, the joseki is finished, and it's time to play elsewhere. Click the Tenuki Percentage indicator to see the moves played around this position later in the game. To see opponent moves, click on the large black or white player icon to change whose turn it is to play.

Modify Selected Area: If you're not happy with the automatically determined area for matching, click this button and add/remove points on the board to modify the selection. **Keyboard:** Hold down Ctrl to mark a rectangle.

Detail: SmartGo matches the position in the marked area exactly. Any moves inside the marked area are deemed to be continuations of the joseki. In some positions, you may see some of the next moves shown outside the area: This happens when the moves outside the area seem to be more related to the marked area than to stones on the rest of the board.

Matching games:

When you want to explore the games that match in more detail, switch to the Matching tab. It lists all the positions that match. (A game may be shown several times if the same joseki was played in different corners.) The games will be oriented the same way as the original position. Use the up/down arrow keys to navigate from game to game; use the forward/backward arrow keys to replay the games in this orientation.

Note: The commands on the Library toolbar are disabled while you're in the Matching tab -- you can't match within a matching game. Switch back to the Open Games or the Library tab to change the

position you want to match.

On the matching games tab, right-click on a header to add the following columns not available in other views:

- **Player, Opponent:** The player listed is the player who will be playing the next move. Sort by this column to see the moves a particular player picked in this position.
- Next Move: The coordinates of the next move played. Sort by this column to group the games by next move. Detail: A minus after the move means it's played as a follow-up move, not immediately.
- Move Number: This is the move number at which the position matches. Sort by move number if you're interested in matches occurring early or late in the game.

5 Tips and Tricks

This section highlights helpful features that you may not discover when you explore the user interface.

5.1 Alt Key on Board

Hold down the Alt key and click on a board point to go to the position where you played a certain move.

While you hold down Alt and mouse over the board, the move number at the cursor position is shown in red. This feature lets you know where you'll go if you click.

5.2 Shift Key

Use the Shift key to change a function from black to white and vice versa:

- Hold down Shift while you play a move to enter a move for your opponent.
- Hold down Shift while adding black stones to add white stones instead.
- Hold down Shift while marking black territory to mark white territory instead.

5.3 Right-Click on Board

Click the right mouse button on the board to display a popup menu. You can use this menu to mark a move as bad without having to go back to the position where you played that move, for example. See <u>Board Popup Menu</u> for more information.

5.4 Drag Current Move

On a real Go board, you can put down your stone and slide it smoothly to where you want to play. Your other Go programs don't support this? SmartGo does.

You also can easily move a stone after you've played it. Just click and hold the most recent move (it will be shown selected) and drag it to a new position.

5.5 Change Order of Next Moves

When several next moves are shown on the board as 'a', 'b', and 'c', you can easily change the order of those moves in the move tree. In the move tree view, click and hold on the letter of a move and drag it up or down to change the order of the moves.

5.6 Guess Next Move

An excellent way to study a professional game is to think about each move and decide where you would play it, then check the actual move. SmartGo supports this mode of play with Guess Next Move a mode.

X Turn on Guess Next Move mode in the Mark Moves with Letters dropdown box on the View Toolbar, and SmartGo rejects any move you play unless it matches the move played in the game.

Hint: You can drag the mouse across a number of points to determine whether the move was played in a certain area of the board.

Hint: You can also use this mode to study joseki.

Hint: This mode works well with <u>auto-replay</u>. Turn on Guess Next Move, turn on slow auto-replay, and the actual move will be shown automatically if you don't find it within the given time.

Guess only one color: You can also use SmartGo's problem solving mode to guess only black or only white moves, and have SmartGo play the opponent's moves. Open a professional game, go to either a black or a white move (depending on which side you want to guess), and then turn on <u>problem solving</u> and on the Mark Moves with Letters dropdown box on the View Toolbar.

5.7 SGF with Standard Coordinates

The <u>SGF file format</u> $\boxed{78}$ (invented by SmartGo author Anders Kierulf) has been criticized for its nonstandard coordinate system, using 'aa' to 'ss' rather than the standard 'A1' to 'T19'. In retrospect, this was a mistake, but it's too late to change the SGF standard.

Most of the time this is not an issue, but if you manually edit an SGF file, it's easier to use standard Go coordinates. SmartGo allows you to write standard coordinates rather than SGF coordinates (see <u>Save tab in Options dialog box</u> [52]). Enable this option to save games in a human-readable format; turn it off to create files that are compatible with other SGF viewers. Note that standard Go coordinates will be written only in FF[4] format, never in FF[3] format.

Warning: While SmartGo can read any file with standard Go coordinates, most SGF viewers can not (yet). Turn off this option before sending games to others!

5.8 Fancy Text Labels

You easily can label any points on the board by using <u>Add/Remove Text Labels</u> in the Mark toolbar or by using <u>Edit Label</u> when right-clicking on the board. You can use single letters or longer text (SmartGo will display longer text in a tooltip). But you can do even more, as SmartGo interprets some label texts in special ways.

Show label in red or gray: If the label text starts with a star (*), the label text will be shown in red without the star. If it starts with a minus (-), the label text will be shown in gray without the minus. Example: "*A" will show "A" in red, "-B" will show "B" in gray.

Show more info in tooltip: If the label text contains a colon (:), SmartGo shows only the part of the label in front of the colon as the label; the entire string will be shown as a tooltip. Example: "B: This is not good" shows only "B" as the label, but shows the whole text when you hover over it. If you start the text with a colon, SmartGo shows only a tooltip.

Refer to points in the tooltip: If SmartGo sees coordinates in the tooltip part of the label, it highlights those coordinates when you hover over the point, using a small red square for the first coordinate it sees and small red circles for the rest. Example: "C: Connects B2 and C4" shows a red square on B2 and a small red circle on C4 when you hover over the point marked C.

Show small black or white stone: If SmartGo sees "(B)" or "(W)" in the tooltip part of the label, it shows a small black or white stone when hovering over that point. Example: "D: Black is dead after White plays here (W)" shows a small white stone at D to better illustrate the issue when you hover over the point marked D.

SmartGo also uses text labels to show move motives (turn on <u>Save territory and expected moves</u> |53| to try this), and we envision others using these labels to create exciting tutorials in SGF. Please let us know how you use these capabilities, and if you desire additional features.

5.9 Environmental Go

Elwyn Berlekamp (<u>www.math.berkeley.edu/~berlek</u>) invented a form of Go called Environmental Go. It differs from regular Go in that you have a stack of coupons (ranging, say, from 19 points all the way down to one point, in half point increments), and at any point in the game you can choose between playing your move on the board or taking the largest remaining coupon from the stack. The value of the coupon is added to your score. Several professional games have been played using this variant (see <u>www.smartgo.com/go.htm</u>); it really makes you think about how much each move is worth.

SmartGo provides partial support for Environmental Go. (If you like this, please let us know, and we'll consider expanding this feature in future versions. Also, the SmartGo computer player doesn't clearly understand Environmental Go, so don't try to play an environmental game against SmartGo yet.)

To play an Environmental Go game between two people:

- 1. Start a game using File > <u>New Game</u> [18], set up players and time limits as usual. Set the komi to be half of the top coupon, 9.5 if the top coupon is 19, for example.
- 2. Save the game.
- Exit SmartGo, and manually edit the SGF file using a text editor such as Notepad: After "AP[SmartGo:1.x]", insert "EG[19.0:0.5:1.0]" (or specify a different high coupon, increment, and low coupon).
- 4. Restart SmartGo (this should reopen that game).
- 5. Play normally, use Pass to take coupons (choose Play > Pass or click the Pass button in the Main toolbar).

The tree view displays the top coupon, the net sum of coupons taken so far (including komi), and the value of each coupon taken.

Hint: Click Find Pass/Coupon in the <u>Find toolbar</u> to find all points in the game where a player took a coupon.

6 Appendix

This section contains information about the game of Go, file format issues, system requirements and installation issues, technical support, and frequently asked questions.

6.1 The Game of Go

What is Go?

Go is a 4000-year-old board game that originated in China. It's played on a 19x19 board, and the two players take turns placing stones in an effort to surround territory. The game is known as **igo** in Japan, as **wei ch'i** in China, and as **baduk** in Korea. To learn more about the history of the game, visit the <u>American Go Association</u> web site, in particular <u>www.usgo.org/resources/whatisgo.html</u>.

Learning Go

The best way to learn the game is to explore the <u>Interactive Way to Go</u> on the web (<u>www.playgo.to/interactive</u>). It provides a complete, interactive introduction to the game. You can also download the "The Way to Go" PDF file from the American Go Association web site at <u>www.usgo.org/usa/waytogo</u>.

Rules

Go is played on a 19x19 board with black and white stones. The game starts with the empty board; the object of the game is to control more board points than the opponent at the end of the game. Black plays first; the players move alternately by placing a stone of their color on an empty point. Once played, stones are never moved, but they may be captured if they're completely surrounded by opponent stones.

You're not allowed to repeat previous positions; the rule of Ko prohibits you from playing a move that would cause the position to be repeated.

A player can pass at any time; the game ends when both players pass. The occupied points as well as the points completely surrounded by a player count as territory; the player with most territory wins the game. There are small differences in how special situations are scored, but there's no need to worry about that while you're learning the game.

Go on the Web

The SmartGo web site (<u>www.smartgo.com/links.htm</u>) has links to a number of interesting web sites about Go and computer Go.

6.2 SGF File Format

The SGF file format used for saving Go games was designed by SmartGo author Anders Kierulf for use in the Smart Go Board for Macintosh, and has since become the prominent standard. Version 3 of the standard was described in Kierulf's thesis in 1990; Arno Hollosi coordinated and documented version 4 of the standard, see http://www.red-bean.com/sgf. As far as we know, SmartGo is the first program to fully support the FF[4] standard.

Exceptions to FF[4] standard:

If the following properties are important to you, please let us know so that we can determine whether to add support for them.

- AR, LN: Arrow and line properties are not supported; there are no plans to add support for these
 properties.
- CA: The charset property is not supported, but support for this property will probably be added in a future version.
- **ON:** The opening is not displayed in the Game Info dialog box. This property was introduced for the game of Othello, and isn't as useful for Go.

Note that these properties (and any other non-standard properties generated by other SGF editors) are preserved when reading and saving files (unless Skip unknown properties s^2 is enabled).

A few properties don't support all the possibilities mentioned in the standard:

- **SZ:** Rectangular boards are not supported, only square boards. SmartGo:Editor supports sizes up to 29x29, while SmartGo:Player is limited to 19x19.
- FG remove captured stones: The "remove captured stones" option is always turned off. Diagrams show the starting position plus numbers on the stones played after that, without removing any stones that get captured during that sequence. However, enabling <u>Number All Moves</u> in the View toolbar will show the sequence leading to the current position with captured stones removed.
- FG coordinates: The "coordinates" setting is not exposed to the user, it will always be saved as if it was turned off. Diagrams use the current setting of coordinate display from the user interface to determine whether coordinates are shown.
- **FG ignore flags:** The "ignore flags" setting is not exposed to the user. If the flag is present in a file, it will be saved if the figure flags remain unchanged; it will be turned off if you change the figure flags.

Non-standard usage in SmartGo:

• **TM:** To accommodate other SGF editors that record the time limit as a string rather than a number of seconds, the user can choose to split the time limit into proper TM and OT properties, or simply enter a text string that will be written in the TM property.

Extensions defined by SmartGo:

The SGF file format allows each program to add its own extensions, and SmartGo itself adds a number of properties beyond what the standard defines.

In the FG (Figure) property, three additional flags are defined:

- From-To in caption (value: 0 or 4096): Show the range of moves as (From-To) in the caption.
- Repeat last move (value: 0 or 8192): The last move of the previous diagram is repeated.
- Small stones (value: 0 or 16384): Show sequence with small stones.

The following properties are used to define territory in more detail than TB and TW do. Each property specifies a list of points.

- **TY:** Moyo points.
- TZ: Unsettled points.
- TC: Blocks that can be captured tactically.
- **TP:** One of several blocks can be captured tactically.
- TK: Ko points: Control of territory depends on winning a ko, for both sides.
- KB: Ko points favorable for black: Black can play to control those points, white can make a ko.
- KW: Ko points favorable for white: White can play to control those points, black can make a ko.

To help simple viewers that are not able to compute captured stones, the E (Empty) property can be added to indicate all captured stones. See Options > Save > Create properties for captured stones $\overline{52}$. An empty E property in the root node tells viewers that they can rely on that property.

• E: List of points where stones are captured, or empty list in the root.

For Environmental $Go^{(77)}$ games, SmartGo defines the following root property:

• EG: The format of this property is [HighCoupon:Increment:LowCoupon], e.g. [19.0:0.5:1.0] defines coupons of 19, 18.5, 18 ... 2, 1.5, 1.

The following properties contain various statistics (integer properties unless otherwise noted):

- TU: The time used to solve a problem (a real number, in seconds).
- NN: The number of nodes examined to solve a problem.
- NL: The number of evaluations or leaf nodes.
- MD: The maximal depth reached during a search.
- DE: The number of plies searched (depth).
- PD: The number of top level moves at deepest search (partial depth).

The following properties store the move motives:

- MO: A text property that stores the move motive.
- MM: A text list property that stores all move motives.

To store pattern restrictions, the following properties define lists of points that can't be empty, black, or white.

- QE: Not empty.
- QB: Not black.
- QW: Not white.

To store the search tree of a proof number search, the following integer properties are defined:

- **PN:** Proof number.
- **DN:** Disproof number.

In addition, SmartGo can read and write SGF files by using standard Go coordinates, to make it easy to edit files by hand. See <u>SGF with Standard Coordinates</u> 76.

SmartGo reads some of the SGF diagram extensions used by GoWrite and converts them to proper FF[4] diagram properties.

The following property makes it possible to significantly shrink the size of game collections:

• S: Sequence of alternating moves starting with a black move, without any other properties. See <u>Compressed Game Collections</u> for more information. Note that this property replaces a number of nodes, and thus changes the structure of the SGF file, so this property is only written in SGC files.

6.3 Compressed Game Collections

SGF is a relatively compact format, but when dealing with thousands of games, it wastes mega-bytes on your hard disk, and makes it slower to download game collections. We've implemented a simple way to reduce the size of SGF files for games that mainly consist of moves, not a lot of other properties. Since this format is not completely compatible with SGF, we're using the SGC extension for such files.

In SGF, a sequence of moves is represented as follows:

;B[m1];W[m2];B[m3];W[m4];B[m5];W[m6];B[m7];W[m8];B[m9] (9 x 6 = 54 characters)

In an SGC compressed file, this is written as:

S[m1m2m3m4m5m6m7m8m9] (4 + 9 x 2 = 22 characters)

The savings are even more significant for longer files. We hope other authors writing Go programs will consider supporting this simple compression scheme.

6.4 System Requirements

Platform:

Windows 95 (with IE 4.0), Windows NT 4.0, Windows 98, Windows Me, Windows 2000, or Windows XP. Internet Explorer 5.0 or later recommended.

RAM memory:

- SmartGo: 32 MB of RAM.
- Games: 10000 games take about 35 MB of RAM, so lots of RAM is recommended for large game collections.

Tip: To reduce memory requirements, turn off "Smoothly rounded stones" in <u>Board Graphics</u>

Disk space:

- SmartGo: 6 MB of free disk space.
- Games: 10000 games in SGC format take about 7 MB of disk space.

Processor speed:

• 400 MHz Pentium II (or compatible) required. 650 MHz Pentium III (or compatible) recommended.

Screen: 800x600 resolution or better is recommended. SmartGo works in 256 colors or higher; High Color (16 bit) recommended. (To check or adjust your screen settings, choose Start > Settings > Control Panel > Display > Settings.)

SmartGo Help: SmartGo Help requires HTML Help, which is not included in Windows 95 and Windows NT 4.0. Many programs (Microsoft Office, for example) install additional support for HTML Help, so your system may already support it. If not, the easiest thing to do is to read the online Help file at <u>www.smartgo.com</u>, or to download the User Manual as a PDF file from the web site and print it.

6.5 Installation

Install: After you download and execute the Setup file, you will be asked where to put the files after uncompressing them. The default installation directory is "C:\Program Files\Smart Go" but you may change it. No other files are required.

File names: The Help file (SmartGo.chm) is the same for all versions of SmartGo and should be put into the same folder as the SmartGo executable. The executables for the Player, Editor, Viewer, and 9x9 versions have different file names and can coexist in the same folder without problems:

- SmartGo:Player: SmartGo.exe
- SmartGo:Editor: SmartGoE.exe
- SmartGo:Viewer: SmartGoV.exe
- SmartGo:9x9: SmartGo9.exe

SmartGo:Player includes SmartGo.sgd, a data file that contains more than a thousand professional games. SmartGo will assume that this file is in the same folder as the SmartGo executable, but you can change that in the Library of Games 2^{2} dialog box.

SmartGo:Player includes Tourney9.sgf, Tourney13.sgf, and Tourney19.sgf for the <u>Tourney</u> feature. SmartGo:9x9 includes Tourney9.sgf.

The first time SmartGo is run, you will be asked to accept the license agreement.

The first time SmartGo is run, it will add a shortcut to itself in the Start menu. SmartGo will later update that shortcut if you've moved the SmartGo executable to a different location.

Restoring factory settings: SmartGo keeps track of your settings. If at any point you want to get back to all the original settings, choose Tools > Options > $\frac{\text{Reset}}{56}$ and click on "Restore Factory Defaults".

Uninstall: Simply delete the program files and the shortcut in the Start menu.

Associating .sqf files with SmartGo: You may want to set SmartGo as your preferred program for editing .sqf files. Choose Tools > Options > $\frac{\text{Reset}}{56}$ and click on "Associate SGF with SmartGo".

Command line options: You can start SmartGo from the command line by passing it a file name as well as a move number (-n) and a game number (-g). For example, "smartgo.exe -n 50 game.sgf" will open game.sgf at move 50. Use this to integrate SmartGo as your favorite editor with programs such as Kombilo (<u>www.u-go.net/kombilo</u>).

When you exit SmartGo, your current settings are preserved in the registry at HKEY_CURRENT_USER\Software\Smart Go\SmartGo\Settings. You can choose Start > Run and type "RegEdit" to open the registry editor. **Warning:** While changes to the SmartGo part of the registry are usually benign, we don't recommend editing any other parts of the registry.

Restoring factory settings: If at any point you want to get back to all the SmartGo original settings, choose Tools > Options > $\frac{\text{Reset}}{16}$ and click on "Restore Factory Defaults".

6.7 Technical Support

We're happy to answer SmartGo questions or address problems that are not answered in this Help manual or in the <u>Frequently Asked Questions</u> on our web site.

Please send your questions to: support@smartgo.com

Send suggestions and bug reports to: feedback@smartgo.com

6.8 Frequently Asked Questions

For an up-to-date list of FAQs, visit <u>www.smartgo.com</u> and click on FAQ on the left side. See also <u>www.smartgo.com/issues.htm</u> for known problems.

How strong is SmartGo?

SmartGo is not rated, and we make no claims as to a particular kyu level. In test games, it usually gets ahead in the middle game against strong programs like HandTalk, The Many Faces of Go, or GNU Go, but rarely wins. Visit <u>www.smartgo.com/progress.htm</u> and check the games played at the most recent tournament to get an idea of its play.

Why does SmartGo sometimes play the wrong move in Life & Death situations?

Even with the integrated GoTools, a dan-level Life & Death problem solver, SmartGo sometimes

makes silly mistakes in L&D situations. There are a number of reasons why this can happen, including:
GoTools may not have been given enough time to solve the problem.

- SmartGo didn't enclose the group properly before passing it to GoTools.
- SmartGo's heuristic evaluation didn't recognize that the group was weak, and thus never passed the group to GoTools.
- GoTools figured out that the group is dead, but SmartGo is not certain the surrounding group is alive, and may think it's a race to capture.
- GoTools returned the correct move, but SmartGo decided something else was bigger.

How do I get SmartGo to count the score?

SmartGo automatically computes and shows the score at the end of the game. If SmartGo makes a mistake in assessing whether a group is alive or dead, choose Replay > Annotate Board > Mark Enclosed Territory and then click on the stones to change their status. If you want to count the score in the middle of the game, choose Replay > Annotate Board > Mark Black (White) Territory, then mark the black (white) territory on the board. These functions are also accessible from the Mark toolbar.

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