

Primiview

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	Primiview		
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Chapter 1

Primiview

1.1 main

Primiview 3.1 (\$VER: 39.15)

Copyright 1993-1995 Jarkko Lindblad
1995-1998 Arno Hollosi

Primiview stands for primitive viewer - it's purpose is to be a simple SGF viewer/editor. If you want fancy graphics or a graphical user interface with millions of buttons, this program is not for you. Primiview is a freak program! It's powerful but has a simple interface, with which you can work efficiently, if you get used to all the short-cuts.

About

About Go

Disclaimer

Getting started
Usage:

Menus

Commands

Editing

Scoring

AREXX

History

Limitations

ToDo-list
Note:

PLEASE mail me your suggestions, wish-lists, bug-reports, criticisms, ...

Especially I'm interested in BUGS. I don't discover all of these nasty creatures myself, so I need your help to make Primiview more useable.

Send email to: <Arno Hollosi> hollosi@sbox.tu-graz.ac.at

1.2 about

What is it:

Primiview is a SGF file viewer/editor. SGF stands for 'Smart Game Format' and is THE standard format for Go game records on the internet. Primiview is NOT a computer Go player.

About the Authors

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I'm improving Primiview since V39.5, as Jarkko hasn't got the time to continue his great work.
So if you've got any wishes, suggestions, bug-reports or anything else, then email me.

My current account on IGS & NNGS is "dada"

I would like to thank the following people:

- * Bob Carter for suggestions, beta-testing and for proof-reading this text.
- * Agi, Mike and the whole Amiga-Graz bunch for moral support and being good friends.

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1.3 disclaimer

Legal Mush

Primiview 3.1 is copyrighted by Arno Hollosi and Jarkko Lindblad. You can spread the Primiview archive, but you may not modify the archive in any way without our written permission.

Primiview is freely distributable copyrighted software; you can distribute it as you wish, as long as you don't charge any money for doing so.

In spite of several tests, no warranty is made that there are no errors in Primiview. YOU USE THIS PROGRAM AT YOUR OWN RISK. In no event will the authors be liable for any damage, direct or indirect, resulting of the use or misuse of Primiview. This software is provided "as is" and the entire risk as to its quality and performance is with the user.

In other words:

If Primiview causes your system to explode, melt, or harms your system in any other way, well, bad luck.

1.4 starting

Installing

Just drag the Primiview drawer to the desired place on your harddisk. That's it. No assignments or environment-variables have to be set.

If you are short of disk space you can omit every file but Primiview. All that is needed is the program itself - 1 file. But I suggest that you copy the manual too. Might be useful :o)

Starting Primiview

Primiview can be launched both from WB and CLI.

For CLI users: Primiview needs some stack-space. The maximum stack depends on the longest tree in a SGF-file (not on the number of variations). Be sure to set the stack size of the CLI you're using to a proper value. I suggest you set the stack size to 20000 as I've never had problems with this size. Once this is done you can enter at the CLI prompt: `primiview [game-file]`

WB users should just double-click the icon and the program starts. The stack size is already preset to 20000 in the icon info.

Primiview searches for two files in the program directory:

"Primiview.prefs" - The preference file with all settings that may be customized. Select 'Save options' from the 'Settings' menu to generate this file.

"Primiview.guide" - The Amigaguide documentation of Primiview (If Primiview can't find this file you don't have access to online help)

Programs Requirements

Primiview runs on Amiga computers with AmigaOS 3.0 (V39) or better. There are no plans to modify the program to run on older versions of the OS.

1.5 menu_usage

Menus:

=====

Project

- New - Opens a new board window
- Open - Opens a file requester and loads the game-file the user chooses into the current (last active) board-window
- Save - Save game-file of the current board-window
- Save As - Opens file requester, saves game-file
- About - Copyrights, PubScreen and ARexx port name
- Close - Closes the current board-window (if the last board window is closed the program exits)
- Quit - Exit program

Buffer

(If you load more than one file into one window, they are stored in different buffers. Actions take place in the current [last active] board window.)

Clear - Clears all buffers of the current window
 List - Not implemented

 Next - Switches to next buffer in window
 Prev - Switches to previous buffer in window
 First - Switches to first buffer in window

 Game info - Lists information about the current game

 Score mode - Activate
 score mode
 Show points - Searches the comment text for points (e.g.
 'R16', 'C4', ..) and marks them on the board

 Set file comment - Sets the AmigaDOS file comment string
 (especially added for Bob :)

 Edit - For a complete description of these items
 ---- have a look at the
 edit menu commands
 .

 .

Settings

Screen Mode - The screen mode the program uses can be
 changed with this menu item

 Text Font - Allows the user to change the font used on
 comment, information and variation windows
 (Hint: try 'helvetica.font' height: 13)
 Board Font - Changes the font used in the board window
 Title Font - Changes the font used in the window and
 screen titles
 Edit Font - Changes the font used for editing text

Variations

Board position - Variation-move lookahead;
 shows first move of each variation
 As Children - Show variations as children of current node
 As Siblings - Show variations as siblings of current
 node (XGoban style)

Quick gameinfo - Print gameinfo into comment window and
 print result at last node of game

Snap1 <-> Snap2 - Primiview remembers two positions/sizes of
 comment-, variation- and board-window.
 Choosing this menu item chooses between
 the two snapshots of these windows.
 I use the two snapshots for:
 a) big board (e.g. pro-game, no comments)
 b) normal board (IGS/NNGS games with kibitz)

Take snapshot - Snapshots the positions of all OPEN windows
 (board windows: only the current [last

active] board window)

Save options - Saves all the information one can change from the settings menu. Also the current directory (the last one from which one loaded a file) and the file-pattern is saved.

1.6 key_usage

Related:

Edit commands

Keyboard Commands:

All move-commands stepping down the tree (moving forward) choose variation 'A,' if there are any variations.

Cursor right - Moves one node forward
 Cursor left - Moves one node backward
 Cursor up - Moves to start of current variation
 Cursor down - Moves to end of current variation or to next variation start in the tree

Space - Moves one node forward
 Shift + Space - Moves one node backward
 Alt + Space - Same as Cursor down
 Shift + Alt + Space - Same as Cursor up

'a'-'z' - Chooses a variation

Del - Switches to next variation-tree
 Shift + Del - Switches to previous variation-tree
 Alt + Del - Switches to variation tree 'A'
 Shift + Alt + Del - Switches to root path (i.e. where you first took a variation instead of the 'A' path)

Shift + CSR left - Step ten nodes backward
 Shift + CSR right - Step ten nodes forward

Shift + CSR down - Move to next comment
 Shift + CSR up - Move to previous comment

Ctrl + CSR up - Move to root node of game
 Ctrl + CSR down - Move to last node of current variation

Shift + 'G' - Goto node number #

1,2,3...8,9,0 - Goto position 1-10
 (pressing again jumps to previous position)
 Shift + 1-0 - Current node is stored as position 1-10

TAB - Switch to next buffer (in the active window)
 Ctrl + TAB - Step five buffers forward

Shift + TAB - Switch to previous buffer
 Shift + Ctrl + TAB - Step five buffers backward
 Alt + TAB - Switch to first buffer in active window

 Help - Opens the AmigaGuide help file
 Shift + Help - Opens the AmigaGuide help file (MAIN node)

 Ctrl + R - Redraw Board (if GFX gets messed up)

 ESC - Close all unnecessary windows
 (information window / requester window)

Mouse Commands:

Left Mouse Button (LMB) - Moves one node forward (If 'show variation board positions' is ON, clicking on a variation mark chooses that variation)
 LMB + Shift - Move one node backward

 LMB + ALT - Moves to end of current variation or to next variation start in the tree
 LMB + Shift + ALT - Moves to start of current variation

 LMB + CTRL - On empty intersection: go down tree and stop where this point gets occupied.
 On stone: go up tree and stop where this stone gets set.

1.7 score_mode

Score Mode

The score mode is a powerful tool for scoring games.

It's based on the idea of influence: every stone influences its direct neighbourhood (up to 3 points in each direction.) The algorithm sums up all influences radiated and calculates the color of a given point.

Scoring can even be done during fuseki. But don't expect wonders :o)
 It works best in the late middlegame and endgame.

You can interact and support this process by mouse.

Clicking the left mouse button (LMB) on

an alive group -> marks this group as dead. Note that neighbour groups might change their status too. Click on these neighbour groups to achieve your goal.

a dead group -> marks this group as alive.

black or white territory -> remove the territory. The algorithm

detects only trivial cases of dame points.

an empty point -> LMB: add black territory
 Shift + LMB: add white territory
 This can be useful to fill any holes - the
 algorithm automatically fills any completely
 surrounded area.

Clicking again on the same point or group undos your previous click.

The result is shown in the comment window. There are two values given for komi - the left one is used for calculation, the right one (in parenthesis) is the komi text as given in the file. If the values differ please go to the root node and correct the komi value.

Press 'ESC' to leave the score mode.

1.8 edit_mode

Since version 3.0 (39.11) Primiview is able to edit and save SGF- ↔ files.

Press <RETURN> (or <ENTER>) in order to enter or leave the edit mode.

Edit Menu

Key short cuts

Mouse commands

Editing text

About SGF:

General concepts

Restrictions

Style

Game info entries

If edit mode is active, the edit menu will be enabled and a status ↔ line

displayed in the variation window.

Status line: # Move # Markup: filled square * Add *

Move # Is printed either in black or white and shows the color used for adding a new move

Markup: xxx Shows the currently active board markup

* Add * Is printed either in black or white and shows the color used for adding stones to the board

1.9 sgf_concept

General Concepts:

SGF is a text-only tree based file format.

It consists of nodes which are structured in a tree, i.e. a node has exactly one predecessor called parent, but may have one OR MORE successors called children. Thus SGF can store game records (a list of moves) and variations of the actual line of play.

A node is the smallest unit visible to the user, i.e. the user steps through the tree node-wise (forward [down the tree], backward [up the tree], etc.).

A node consists of properties. These properties contain a certain kind of information, e.g. the 'B[]' property describes a black move made, the 'C[]' property contains a comment text.

For example: if you step forward and see a new move on the board and a comment in the comment window plus some markup on the board THEN all this information is represented by different properties which are parts of the SAME node.

Thus editing is done in two levels: adding/deleting nodes and adding or deleting properties.

To make it clear: a move is part of a node and not the node part of the move. A move is represented by ONE property but a node may contain more than one property.

'Make a Move' vs. 'Place a Stone on the Board':

SGF provides two ways to add new stones to the board:

- a) make a move (SHIFT+LMB)
- b) place a stone (CTRL +LMB)

Making a move is like making a move in a real game, i.e. you can only make moves on empty intersections, you can only make one move per turn (here: per node) and you may take some prisoners by making a move.

Primiview marks a move with a blue square.

Primiview doesn't check if a move is correct, i.e. you can make a move which recaptures a ko.

Placing a stone on the board is like setting up a position, e.g.

handicap stones, setting up a problem or analysis of positions ("this would work if the position over there would look like this..."). Thus one can place MORE than one stone, stones of different colors, remove stones, replace stones with that of the opposite color all in one node.
BUT: there are no prisoners made as these are not regular moves!

1.10 sgf_restrictions

Restrictions:

It is good style (and will be required in future versions of SGF) to distinguish between a move and the position arrived at by this move.

Primiview therefor DOESN'T ALLOW mixing setup properties and move properties within the same node.

Move properties are properties such as a black or white move or annotations (bad move, interesting move, etc.).
Setup properties are properties used to set up or describe a position such as place black/white stones on the board or annotations like 'black to play'.

Whenever Primiview denies you setting stones, making a move or adding an annotation you're most likely to try to mix setup and move properties.

There are some SGF files available which contain nodes where mixing these properties occurs. Primiview denies you to edit these nodes, unless you delete either the setup or the move properties in these nodes.

1.11 sgf_style

Style:

- * The first branch (variation 'A') is the main branch.
Variation 'A' should always follow the real game.
Consider yourself viewing a game where you have to press 'b' then 'c' and then 'b' again just to follow the real game - disturbing.
 - * Length of labels: Primiview is able to display labels of any size.
The current file format allows only 4 chars - that's why Primiview doesn't allow the creation of labels longer than 4 chars.
Attention: some applications have problems displaying labels longer than 2 chars. Use long labels with care!
 - * Omit extra pass plays and empty nodes at the end of the game.
The last node of the game should contain the last move on the board.
Do not put game information such as 'Black wins and connects Ko' into the comment field, rather add another move to the game which connects the Ko.
-

- * Use annotations for standard situations (e.g bad move). Annotations are represented by extra SGF-properties and these property don't contain the text displayed by Primiview, but the meaning, i.e. a multilingual viewer could display these annotations in any language requested, or computer programs can use this information for their calculations.

1.12 edit_key

Related:

Edit mouse commands

Edit menu commands

Navigation commands

General Concept of Keyboard Shortcuts:

Qualifier Shift: node manipulations and MOVE properties
 Qualifier Ctrl: SETUP properties
 Qualifier Alt: MARKUP properties

Edit keyboard commands:

Shift + 'A' - Insert an empty new node as a child of the current node. If you start in an empty board window (created by the 'New' menu item) you have to add the root node first in order to edit e.g. gameinfo values!

Shift + 'V' - Insert an empty new node as variation (may be child or sibling depending on variation mode)

Shift + 'N' - Delete the current node.
 The root node can't be deleted!

Shift + 'T' - Delete the whole subtree starting with the current node. The root node can't be deleted!

Shift + 'R' - Reorder variations:
 step 1: press 'a'-'z' to select a variation
 step 2: press 'a'-'z' for variation AFTER which the selected variation should be inserted
 If an error occurs (or if you abort the operation by doing anything else than pressing these two keys) the display beeps.

Shift + 'C' - Enter
 edit text
 mode.
 You may edit the node-name and the comment text.

Shift + 'I' - Enter
 edit text
 mode.

Shift + 'M' You may edit almost all game info entries.
 Remember to move into the ROOT node (CTRL+CSR up)

as game info properties are usually stored there.
 Primiview beeps the display if you're not in the root
 node. Some properties have a
 required format
 .

Shift + 'B' - Set the 'move color' to BLACK, i.e. the next move
 inserted will be black
 Shift + 'W' - Set the 'move color' to WHITE, i.e. the next move
 inserted will be white
 Shift + 'P' - Add a pass move (current color).
 Adding is done like adding a normal move
 (see
 mouse commands
).

Shift + 'D' - Delete all move properties
 (move annotations get deleted too)

Ctrl + 'B' - The color for adding stones is set to BLACK
 Ctrl + 'W' - The color for adding stones is set to WHITE
 Ctrl + 'E' - The color for adding stones is set to EMPTY
 (delete stones)
 Ctrl + 'D' - Delete all setup properties
 (position annotations get deleted too)

Alt + 'T' - Markup: triangle - this should be used on stones only
 Alt + 'X' - Markup: crosses - this should be used on
 empty intersections only
 Alt + 'C' - Markup: circle - this should be used on stones only
 Alt + 'S' - Markup: square - this should be used on stones only
 Alt + 'F' - Markup: filled square (SGF: selected points)
 Alt + 'A' - Markup: labels
 A text requester pops up; this is the text inserted
 when you press ALT+LMB. Have a look at
 style
 for
 restrictions (currently 4 chars).

Alt + 'L' - Markup: lowercase letters from a-z
 Alt + 'N' - Markup: numbers from 1-99
 Alt + 'B' - Markup: black territory
 Alt + 'W' - Markup: white territory
 Alt + 'D' - Delete all markup properties of the current node

1.13 edit_mouse

Related:
 Edit key commands

Edit menu commands
 Edit Mouse Commands:

LMB - Move one node forward or takes variation
 (just like in non-edit mode)

Shift + LMB - Make a move (the color is alternated)
 or Clicking again on the same move deletes it
 CapsLock + LMB If the current node doesn't contain a move
 the move is inserted.
 If the current node DOES contain a move a new child
 node (or variation!) is created (for easier input
 of game-records/variations.)
 Note that it is forbidden to make a move in the
 root node (as this is bad style.)

Ctrl + LMB - Place stones on the board (for setting up positions).
 Clicking again undos the placing.

Alt + LMB - Mark the current position with the chosen markup type.
 Clicking again removes the markup.

Alt + Shift + LMB - Same as Alt+LMB, but uses a fill algorithm (only
 orthogonal connections - no diagonal connections).
 Using this function you can easily mark a whole
 group of stones or empty territory.

1.14 edit_menu

Related:
 Edit key commands

 Edit mouse commands

 Menu commands
 Edit Menu Commands:

Set goban size - sets size of goban, allowed range: 1-19
 Attention: deletes all SGF data in buffer!
 Action takes place in the (last) active board window.
 Hint: you may use this function to clear a buffer.

Node - See
 keyboard commands
 Color - See
 keyboard commands
 Add Stones - See
 keyboard commands
 Markup - See
 keyboard commands
 Annotation

Annotations are used for making remarks on the current position or
 the move made (e.g. good or bad move). General annotations and move
 annotations may be emphasized.

In this case Primiview displays '!!!' after the text, e.g.
 'Good for Black!!!' i.e. 'Very good for Black.'

You can toggle emphasize by selecting the same menu item again.

Delete	- Remove all annotations from the current node
Good for Black	- General remark (something good for black)
Good for White	- General remark (something good for white)
Even position	- General remark
Unclear position	- General remark
Tesuji	- Move annotation (tesuji == locally good move)
Bad move	- Move annotation
Doubtful move	- Move annotation
Interesting move	- Move annotation
Black to play	- Position annotation
White to play	- Position annotation

1.15 edit_text

Editing Text:

Editing text is done in the comment window using the edit font, which is a fixed-width font that may be set via the "Edit font" menu item. The text editor is a very basic one (no advanced features).

As it is possible to edit more than one value at a time, each value (e.g. node name, comment text) is given a caption.

You can't edit the caption. If the cursor is over a caption its color is set to blue. If the cursor is over a editable value its color is set to red.

Functions:

Cursor keys - To move around the cursor
 Backspace - Delete the character to the left of the cursor
 Del - Delete the character under the cursor

CTRL + D - Delete current value
 CTRL + R - Force a redraw of the text display

ESC - Leave text edit mode and save changes (OK)
 Shift + ESC - Leave text edit mode and DISCARD changes (cancel)

If you select a menu item, activate a board window, resize a window or anything similar Primiview exits text edit mode and saves the changes!

SGF defines that some values may hold multiple lines, others must not. In the latter case Primiview ignores <Enter> and <Return>.

The text editor isn't able to scroll text.
 If the text doesn't fit into the window you can't edit it!

If you delete lines the text that is outside the window is NOT scrolled into the window. You have to force a redraw with CTRL+R.

The text buffer is currently 10 KBytes large.
Any text larger than this gets cut off!

1.16 edit_gameinfo

Related:
Edit text mode
Format of Game Info Entries:

Some game info values have a mandatory format, but Primiview doesn't check the input data for correctness.
So it's up to you, to enter correct values. PLEASE TAKE CARE!

Black/white name: Name of the player who played black/white
(no recommended format)

Black/white rank: Strength of the player who played black/white
recommended format:
"10k" or "10 kyu" for a kyu player
"3d" or "3 dan" for a dan player
Go servers may add a '*' or '?,' e.g. "10k*"

Black/white team: Name of the team (for games played in team events)
(no recommended format)

Result: Final result of the game
MANDATORY FORMAT:
"0" (zero) for a draw (jigo)
"B+score" for a black win and
"W+score" for a white win, e.g. "B+2.5" or "W+64"
For half point results use "B+0.5" or "W+0.5"
"B+R" or "B+Resign" and "W+R" or "W+Resign" for a win by
resignation. You MUST NOT write "Black resigns"
"B+T" or "B+Time" and "W+T" or "W+Time" for a win on time
"B+F" or "B+Forfeit" and "W+F" or "W+Forfeit" for a win by
forfeit
"?" for an unknown result

Komi: Score adjustment (points added to White's score)
MANDATORY FORMAT:
Float value, e.g. "5.5" or "0" or "0.5" or "-10," etc.
NOT: e.g. "5 points" <-- Error

Handicap: Number of handicap stones
MANDATORY FORMAT:
Integer value greater zero, e.g. "1" or "5" or "9"

Time: Regular playing time for each side
MANDATORY FORMAT:

Time is given in seconds as a float value,
e.g. "4600" or "300"
NOT: "1 hour" <-- Error

Date: Date when game was played
MANDATORY FORMAT:
Use the ISO-standard format "YYYY-MM-DD" because
dates in this format can be sorted alphanumerically.
Do not use other separators such as "/" or " " or ".".
For games that last more than one day, following format has
to be used:
"YYYY-MM-DD,DD" if the month is the same
"YYYY-MM-DD,MM-DD" if the month is different
"YYYY-MM-DD,YYYY-MM-DD" if the year is different

For the following entries there's no recommended format:

Event: Name of event (e.g. tournament name)
Round: Number of tournament round
Place: Name of place (e.g. city, country) where game took place
Rules: Name of rule set used (e.g. Japanese, Chinese, AGA, GOE, etc.)

Game name: Name of the game
Game ID: ID for game (may become obsolete)
Opening: Describes the opening played (e.g. san-ren-sei)
Game comment: General comment about the game

Source: Name of the source (e.g. book, journal, etc.)
User: Name of user (or program) who entered the game record
Annotation: Name of the person who made the annotations
Copyright: Any copyright information

1.17 about_go

About Go

Go (or WeiQi as it's called in China) is an ancient chinese board game. It's played using black and white stones, which are set alternately on the intersections of the board. The aim of the game is to surround as much territory (empty intersections) as possible. Placed stones must not be moved. Stones may get captured though.

For more information have a look at the FAQ posted on 'rec.games.go' or

have a look at one of the following:

- * Mindy McAdams' Go page: <http://www.well.com/user/mmcadams/gointro.html>
- * Jan van der Steen's pages: <http://www.cwi.nl/~jansteen/go/go-0.html>
(thousands of stored professional games)
- * Ken Warkentyne's Go Web Index: <http://nngs.cosmic.org/~kenw/go/golinks.html>

* The Go Teaching Ladder: <http://www.iicm.edu/GTL>

Go Definitions

Here's a list of Japanese Go terms and their explanation.

It was compiled by Fletch Holmquist and Bill Taylor.
(included by permission of Bill Taylor)

The original file can be found at: <ftp://igs.nuri.net/Go/info/definitions.Z>

Ten very common Go terms, for which there is no exact English word:

Atari	Dame	Go	Gote	Hane
Ko	Komi	Moyo	Seki	Sente

Ten more commonly used Go terms:

Dango	Fuseki	Joseki	Kakari	Miai
Ponnuki	Shimari	Tenuki	Tesuji	

Five common Go tournament terms:

Byo-yomi	Dan	Komi	Kyu	Nigiri
----------	-----	------	-----	--------

Aji (taste):

Latent threats or possibilities existing in a situation.

Ajikeshi (aji erasure):

A play which removes aji.

Amarigatachi:

Play where one feels he has made good moves, when in fact he has accomplished little.

Ate, Atari:

An immediate threat to capture; a single liberty remains.

Boshi (hat):

A capping move.

Byo-yomi:

Extra count-down time after regular clock time has elapsed.

Chuban[sen]:

The middle game.

Dame (useless):

A neutral point, territory for neither; a liberty.

Damezumari:

Shortage of liberties.

Dan: Advanced grade.

Dango (dumpling shape):

A solid mass of stones; a very inefficient shape.

De (go between):

A move which pushes between two enemy stones.

Degiri: A sequence of two moves which push and cut.

Furikawari:

Exchange (of territories).

Fuseki: The opening moves of the game where influence and territory outlines are formed. (literally: 'no stones')

Geta (clog, as the shoe):

A method of capturing a enemy stone; a net trap.

Gote: Defensive play, loss of initiative. (Literally: 'lower hand')

Hamete: A trap.

Hane: A diagonal move played in contact with an enemy stone.

Hane-komi: Hane between two stones

Hanami ko ('flower-viewing ko'):

Ko where one player stands to lose a lot, but the other only a tiny amount.

Hasami (pincer play):

A play that attacks by preventing the opponent's extension down either side.

Hiki: Draw back.

Hiraki: 3rd or 4th line extension.

Honte: The proper move.

Horikomi (throw-in):

A single stone played as a sacrifice.

Hoshi: Star point, 4-4 point.

Igo: An alternative name for Go.

Ikken-tobi:

One point extension.

Insei: Student professional.

Ishi-no-shita:

Under the stones; a tesuji.

Ishi: Stone.

Jigo: Drawn game (by equal territory).

Joseki (established stones):

Known sequences of moves near the corner which result in near-equal positions for white and black.

Kakari (approach):

A move that attacks a single enemy corner stone.

Katatsuki (shoulder hit):

A play on a diagonal of the opponent's stone.

Take: Press down.

Kaketsugi (hanging connection):

A open connection. An example is three stones surrounding an empty point. Promise for eye shape, but can be attacked.

Katachi:

The shape of the stones.

Sabaki: Quick development, light shape.

Keima: Knight's move extension.

Keshi: Erasure.

Kikashi:

A forcing move, usually made outside the main flow of play. Often answered, then ignored; to be used later in the game.

Kiri: Cut.

Ko: Repetitive capture. (Literally: 'eternity')

Ko threat:

Intervening move (that one hopes will force a reply) before a ko can be recaptured.

Komi: Score adjustment usually penalizing black for playing first.

Often 5.5 points.

Komoku: 3-4 point.

Korigatachi (frozen shape):

Inefficient or ugly shape.

Kosumi: A diagonal play next to one's own stone.

Kyu: Learner grade.

Magari (turn):

A play which turns a group, forming a corner.

Mane Go:

Mirror go. White playing symmetrically opposite black.

Miai: Two points which accomplish the same result;
if deprived of one, the other must be played.

Mokuhazushi:
3-5 point.

Moyo: Large potential territory.

Nadare: Avalanche joseki.

Nakade: Unsettled eye shape.

Nidan hane (double hane):
Two successive hane plays by one player.

Nigiri: Equivalent of coin-toss to decide who starts. One grabs
a handful of stones; the other guesses odd or even.

Nihon kiin:
Japanese go association.

Ni ren sei:
Fuseki with two adjacent star points.

Nobi (Stretch):
An extension away from an opponent's tsuke, cross-cut, etc.

Nozoki: A peeping move which threatens to cut.

Oba: Large fuseki point.

Ogeima (large knight's move):
Three across and one vertically (or vice versa).

Osae: A blocking move which prevents extension along a line.

Oyose: Large end-game plays.

Ozaru: Monkey jump.

Ponnuki:
Space between four stones after capture.

Sabaki: Light play; disposable stones.

Sagari: To descend straight toward the edge of the board.

San ren sei:
Fuseki with three adjacent star points.

San-san:
3-3 point.

Seki: A situation where neither player may place the other in
ate without placing himself in ate. Stalemate, with no

territory awarded.

Semeai: Race to capture.

Sente: Threat forcing direct response, creates initiative.
The right to choose where to play next.
Opposite to gote. (Literally: 'upper hand')

Shibori:
Squeeze play.

Shicho: Ladder play.

Shicho-atari:
Ladder breaker. A stone played in the path of a potential shicho,
threatening to make it fail.

Shimari (corner enclosure):
A two-stone corner formation. May not secure the corner, but
attacker is at a disadvantage. Opposite of kakari.

Kogeima shimari (small knight's enclosure):
The 3-4 and 5-3 points.

Ikken shimari (one-point enclosure):
The 3-4 and 5-4 points.

Ogeima shimari (large knight's enclosure):
The 3-4 and 6-3 points.

Shin fuseki:
A revolutionary 1930's strategy. Now blended with
traditional strategy to form the modern style.

Shinogi:
Eye forming sequence; to rescue a group under attack.

Suji: Style; skillfulness.

Tachi: Extension adjacent to centre.

Taisha: A joseki arising from an ignored low kakari to 4-3 point.

Takamoku: 4-5 point.

Tengen: The centre point of the board.

Tenuki: Ignoring opponent's last move to play elsewhere.

Tesuji: The best play in a local position; skillful tactical move.

Tewari diagram:
Analysing by removing irrelevant stones.

Tobi: Jump.

Tsugi: Connection.

Tsuke: Attach. A play made in contact with an enemy stone,

but not in contact with any friendly stones.

Tsuke-atari: Bang against (head-on).

Tsuke-nobi: Attatch and extend (handicap joseki).

Tsume: Extension preventing an enemy extension.

Tsume-go:

Life and death problems.

Uchikomi:

Playing to invade enemy territory.

Warikomi:

Wedge between two stones.

Wariuchi:

A wedging move which has room for expansion in either direction.

Watari: To connect underneath.

Wei Chi:

The Chinese name for Go. (Literally: 'game of encirclement')

Yose: End game.

Yose-ko:

A ko of little value.

Yosu miru:

Probe; to see opponent's response. May be sacrificed.

1.18 arexx

AREXX

Since V39.15 Primiview has an AREXX interface. Now you can use Primiview in combination with a database program to manage your SGF files.

The documentation isn't as good as it should be. When I've more time I'll improve it.

Configuring the ARexx menu

Supplied scripts

The supplied database file
Command interface

Only a minimal core right now. Just barely enough to do what it was designed for in the first place: work together with a database program. Other commands will follow in later versions.

TYPE AREXX means that this is a unique arexx command

TYPE INTERFACE means that this command is exactly the same as the user-interface function. The action taken is the same as if the user had selected this function manually.

Every ARExx command returns '0' in case of success and a non-zero number in case of an error.

'RESULT -' therefore means that no extra data is returned. Just the return code (in variable RC) for succesfull completion or error.

GETSCREENNAME

- get public screen name

LISTWINDOWS

- get window id, status and name

LISTBUFFERS

- get buffer status and names

OPEN

- load a file into current window

CLOSE

- close current window

GOTONODE

- goto specified node

GETNODE

- get node- and move-number; prisoners

GETPROPVALUE

- get property values

LISTCHILDREN

- list children of current node

GETBOARD

- get ASCII board

SAVEOPTIONS

- save current options

SNAPSHOT

- take snapshot

SWAPSNAPSHOT

- swap snapshots

1.19 rx_menu

Configuring the ARExx menu

-
- select 'Save options' from the menu to get the latest version of 'Primiview.prefs'.
 - start a text editor and load 'Primiview.prefs'.
The first line should be: >V: 3901501< (or a higher number)
 - goto line 53 and you'll see ten lines with '-x-', where x is a number, separated by newlines.
 - the '-x-' lines are the text that is displayed in the ARExx menu.
Change these lines accordingly.
 - every line immediately following an '-x-' line contains the name of the ARExx script which should be executed. Specify the FULL path!
 - A preference file might look like this:
 - 1-
 - 2-
 - 3-
 - 4-
 - 5-
 - Add Record
 - Go:arexx/add_record.arexx
 - 7-
 - 8-
 - Start DB (GTL)
 - Go:arexx/start_db.arexx Go:Go_Teaching_Ladder/DB
 - Start DB (pro)
 - Go:arexx/start_db.arexx Go:pro/DB
 - don't mess with other lines or add new lines!
 - save the file and quit and restart Primiview to load the new preferences.

1.20 rx_scripts

Supplied scripts:

The scripts supplied with Primiview are to be used in combination with the database program called DB. DB was written by David Ekholm and Marcin Orłowski. You can find the program on AMINET. Download version 3.5 or later.

start_db.arexx

This script is used to start DB on Primiview's public screen. Correct the path of DB in the script to suit your needs. This script should be added to your Primiview Arexx menu.

add_record.arexx

This script adds a new record to the currently open database. If you've multiple copies of DB running, the record is added to the first DB with ARexx port 'DB.1'. Note that the script works only with the supplied database file or copies thereof - see database file below. This script should be added to your Primiview Arexx menu.

open.arexx

This script is called by DB, if you double-click on the file gadget. It loads the file specified in the currently active window of Primiview. If you've multiple copies of Primiview running, the file is loaded into the first Primiview with ARexx port 'RX_Primiview'

index.arexx

This script is used to add a whole directory (including all sub-directories) to the database. Note that you've to have both Primiview and DB running when you execute this script. You should have loaded the supplied database file or a copy thereof into DB before you start the script.

Open a shell and type 'rx index.arexx DIRECTORY' where DIRECTORY is the !complete! path of the directory you want to index.

Wait and see.

Hints: - to get rid of non-SGF files sort the database by filenames and delete all empty records at the beginning. You can search for files not ending with '.sgf' or '.mgt' too.
- minimize the goban window and the comment window of Primiview so that updating the windows after loading a file doesn't take too long.

Speed: I indexed my collection of ~2000 professional games in about 20 minutes. I know that this isn't fast, but I hadn't time to add code to suppress Primiview's output.

1.21 rx_db

The supplied database file 'DB':

The database file supplied with Primiview is to be used in combination with the database program called DB. DB was written by David Ekholm and Marcin Orlowski. You can find the program on AMINET. Download version 3.5 or later.

'DB' is an empty database file. It supplies two views for the data: a standard one and a compact one. When you double-click on the filename gadget the script 'open.arexx' is called and the file is loaded into Primiview.

Make copies of this file for every new database you want to create. Don't change the order of items in the first and second line or the scripts

won't work anymore.

You've to change the path to 'open.arexx' though. Load the file into a text editor which !preserves! TAB characters. Go to the end of the second line. Change the RXFILE entry according to your installation.

You can type your own comments into the 'Comment' field and search for them afterwards. If this isn't enough, you can add new items - refer to the RFF file format description in the documentation of DB.

Attention: only add new items at the tail of the current item list.

Otherwise the scripts won't work correctly.

You may change the views with the view editor of DB.

No limitations here :o)

1.22 rx_close

NAME
CLOSE

TYPE
INTERFACE

SYNOPSIS
CLOSE FORCE/S,QUIET/S

If QUIET is not specified, a save-requester opens up if a file has been changed, but not saved yet. If QUIET is specified then no requester opens and in case of an unsaved file, the function fails (RC is set to 5.)

FORCE should only be used in combination with QUIET and closes the current window, no matter if the files have been saved or not.

RESULTS
-

RC is set to 5, if QUIET was specified (but not FORCE) and there were unsaved files. See LISTBUFFERS for status of buffers in the current window.

EXAMPLE

```
options results
address 'RX_Primiview'

close quiet
if rc=5 then say "there are unsaved files";
    else say "window closed";
```

1.23 rx_getboard

NAME
GETBOARD

TYPE
AREXX

SYNOPSIS
GETBOARD

RESULTS
BOARD/M

Returns an ASCII version of the current board position.

`.' ... empty point
`+' ... empty star point (hoshi)
`O' ... white stone
`#' ... black stone

EXAMPLE

```
options results
address 'RX_Primiview'
```

```
getboard stem b.
do i=0 to b.board.count-1
  say b.board.i
end i
```

EXAMPLE OUTPUT

```

      A B C D E F G H J K L M N O P Q R S T
19 | . . . . . | 19
18 | . . . . . | 18
17 | . . . O . . O . . . . | 17
16 | . . . + . . . . + . . . O . # . . . | 16
15 | . . # . . # . . . . . | 15
14 | . . . . . . . . . . # . . . | 14
13 | . . . . . . . . . . . . . . | 13
12 | . . O . . . . . . . . . . | 12
11 | . . . . . . . . . . . . . . | 11
10 | . . . + . . . . + . . . . # . . . | 10
 9 | . . . . . . . . . . . . . . | 9
 8 | . . . . . . . . . . . . . . | 8
 7 | . . . . . . . . . . . . . . | 7
 6 | . . . . . . . . . . . . . . | 6
 5 | . . . . . . . . . . # . . . . | 5
 4 | . . . O . . . . # . . . # # # . . | 4
 3 | . . . . . . . . . . . O O O O . . | 3
 2 | . . . . . . . . . . O . . . . . | 2
 1 | . . . . . . . . . . . . . . | 1
      A B C D E F G H J K L M N O P Q R S T
```

1.24 rx_getnode

NAME
GETNODE

TYPE
AREXX

SYNOPSIS
GETNODE

RESULTS
NUMBER/N, MOVE/N, BPRISONER/N, WPRISONER/N

number ... node number (starts with 0)
 If the buffer is empty, number is set to -1
move ... move number (starts with 1)
 If the buffer is empty, move is set to -1
bprisoner ... number of captured black stones
wprisoner ... number of captured white stones

EXAMPLE

```
options results
address 'RX_Primiview'
```

```
getnode stem b.
say "Node #" b.number
say "Move #" b.move
say "B prisoners:" b.bprisoner
say "W prisoners:" b.wprisoner
```

EXAMPLE OUTPUT

```
Node # 152
Move # 152
B prisoners: 3
W prisoners: 8
```

1.25 rx_getpropvalue

NAME
GETPROPVALUE

TYPE
AREXX

SYNOPSIS
GETPROPVALUE PROPERTY/A

RESULTS
VALUE/M

EXAMPLE

```

options results
address 'RX_Primiview'

gotonode root
getpropvalue stem b. PW
if rc=0 then say "Player white:" b.value.0;
getpropvalue stem b. WR
if rc=0 then say "White rank:" b.value.0;
getpropvalue stem b. PB
if rc=0 then say "Player black:" b.value.0;
getpropvalue stem b. BR
if rc=0 then say "Black rank:" b.value.0;
say ""
getpropvalue stem b. KM
if rc=0 then say "Komi:" b.value.0;
getpropvalue stem b. HA
if rc=0 then say "Handicap:" b.value.0;
getpropvalue stem b. RE
if rc=0 then say "Result:" b.value.0;
say ""
getpropvalue stem b. DT
if rc=0 then say "Date:" b.value.0;
getpropvalue stem b. PC
if rc=0 then say "Place:" b.value.0;
getpropvalue stem b. EV
if rc=0 then say "Event:" b.value.0;
getpropvalue stem b. RO
if rc=0 then say "Round:" b.value.0;
getpropvalue stem b. GN
if rc=0 then say "Game name:" b.value.0;

```

EXAMPLE OUTPUT

```

Player white: Go Seigen
White rank: 9 dan
Player black: Kitani Minoru
Black rank: 9 dan

```

```

Komi: 0
Result: W+Resign

```

```

Date: April 14-15, 1957
Place: Tokyo, Japan
Event: Go Seigen vs Kitani Minoru
Game name: 1st Japan's Strongest Deciding Matches

```

1.26 rx_getscreenname

```

NAME
GETSCREENNAME

```

```

TYPE
AREXX

```

SYNOPSIS
GETSCREENNAME

RESULTS
PUBSCRNAME

Result is a simple string, which contains the public screen name of Primiview. This can be used to open other applications windows on Primiview's screen.

EXAMPLE

```
options results
address 'RX_Primiview'

getscreenname
say "Screenname" result
```

EXAMPLE OUTPUT

Screenname Primiview

1.27 rx_goto node

NAME
GOTONODE

TYPE
INTERFACE

SYNOPSIS
GOTONODE ACTION/A

ACTION can be one of xxx any integer; goto node number xxx

- 'DOWN' move down tree
- 'DOWN_VAR' move down to start of next var
- 'DOWN_COM' move down tree to next comment
- 'UP' move up tree
- 'UP_VAR' move up until start of variation
- 'UP_COM' move up tree to previous comment
- 'A' - 'Z' select variation (may move down)
- 'VAR_NEXT' move to next variation (sibling)
- 'VAR_PREV' move to previous var (sibling)
- 'VAR_A' move to variation a
- 'VAR_ROOT' move to root path
- 'ROOT' move to root node
- 'END' move to end of tree

RESULTS
OLDNODE/N

RC is set to 5 if the action failed. E.g. specified node or variation doesn't exist.

EXAMPLE

```
options results
address 'RX_Primiview'
```

```
gotonode DOWN_VAR
gotonode B
```

1.28 rx_listbuffers

```
NAME
LISTBUFFERS
```

```
TYPE
AREXX
```

```
SYNOPSIS
LISTBUFFERS
```

```
RESULTS
BUFFERLIST/M
```

Bufferlist is given as "ccxrr ca nnnnnnnnnnnnnnnnnnnnnnnnn" with

'ccxrr' gobansize, 'cc' is number of columns, 'rr' is number of rows.

'c' '-' : buffer has not been changed
'*' : buffer has been changed and not saved yet

'a' 'a' : active buffer
'i' ; inactive buffer

'nnnnnnnnnn' filename

EXAMPLE

```
options results
address 'RX_Primiview'
```

```
listwindows stem w.
do i=0 to w.windowlist.count-1
  say w.windowlist.i
  if substr(w.windowlist.i, 7, 1) ~= "-" then do
    id = Left(w.windowlist.i, 4);
    listbuffers stem b. id
    if rc = 5 then
      say "goban window" id "not found"
    else
      do j=0 to b.bufferlist.count-1
        say b.bufferlist.j
      end j
    say ""
  end
end i
```

EXAMPLE OUTPUT

```

0000 V- Node-info & variations
0001 C- Comment Window
0100 Bi 1: ram:game1.sgf
19x19 -a ram:game1.sgf
19x19 *i ram:girodias1.sgf

0102 Bi Go:Pro/misc/9x9/game1
09x09 -a Go:Pro/misc/9x9/game1

0103 Ba 3: titles/meijin/1997/game-3.sgf
19x19 -i Go:Pro/japan/titles/meijin/1997/game-1.sgf
19x19 -i Go:Pro/japan/titles/meijin/1997/game-2.sgf
19x19 -a Go:Pro/japan/titles/meijin/1997/game-3.sgf
19x19 -i Go:Pro/japan/titles/meijin/1997/game-4.sgf
19x19 -i Go:Pro/japan/titles/meijin/1997/game-5.sgf
19x19 -i Go:Pro/japan/titles/meijin/1997/game-6.sgf

```

1.29 rx_listchildren

NAME
LISTCHILDREN

TYPE
AREXX

SYNOPSIS
LISTCHILDREN

RESULTS
NODELIST/N/M

RC is set to 5 if the current node has no children.
RC is set to 7 if the buffer is empty

EXAMPLE

```

options results
address 'RX_Primiview'

say "CHILDREN:"
listchildren stem b.
if rc<5 then
    do i=0 to b.nodelist.count-1
        say b.nodelist.i
    end i
else
    if rc=5 then say "no children"
    else say "empty buffer"

```

EXAMPLE OUTPUT

```

CHILDREN:
101

```

460
465
468

1.30 rx_listwindows

NAME
LISTWINDOWS

TYPE
AREXX

SYNOPSIS
LISTWINDOWS

RESULTS
WINDOWLIST/M

Windowlist is given as "xxxx yz nnnnnnnnnnnnnnnnnnnnnnnnn" with

"xxxx" window number (used to identify window)

"y" window type: V ... variation window

C ... comment window
I ... gameinfo window
B ... board window
R ... arexx "window"

"z" window status: a ... activated

l ... locked and activated
i ... inactive
- ... none of above applies (variation-,
comment- and gameinfo-window)

"nnnn" window name

EXAMPLE

```
options results
address 'RX_Primiview'
```

```
listwindows stem b.
do i=0 to b.windowlist.count-1
  say b.windowlist.i
end i
```

EXAMPLE OUTPUT

```
0000 V- Node-info & variations
0001 C- Comment Window
0002 I- Information on the game
0100 Bi masters/goseigen/2/014_047.mgt
0101 Ba Pro/masters/shusai/game-6.SGF
```

1.31 rx_open

NAME
OPEN

TYPE
INTERFACE

SYNOPSIS
OPEN FILENAME/A, FORCE/S, QUIET/S

RESULTS
-

RC is set to 5 if there were unsaved files (and open not executed)
RC is set to 7 if there was an error during loading (note that
in this case all buffers in the winow have been
deleted; the window contains an empty buffer)

EXAMPLE

```
options results
```

```
address 'RX_Primiview'
```

```
open force go:pro/japan/titles/meijin/1987/game-2.sgf
```

1.32 rx_saveoptions

NAME
SAVEOPTIONS

TYPE
INTERFACE

SYNOPSIS
SAVEOPTIONS QUIET/S

If QUIET is not specified, a requester pops up in case of an error
during writing the preference file.

RESULTS
-

EXAMPLE

```
options results
```

```
address 'RX_Primiview'
```

```
saveoptions
```

1.33 rx_snapshot

NAME
SNAPSHOT

TYPE
INTERFACE

SYNOPSIS
SNAPSHOT

RESULTS
-

EXAMPLE

```
options results
address 'RX_Primiview'
```

snapshot

1.34 rx_swapsnapshot

NAME
SWAPSNAPSHOT

TYPE
INTERFACE

SYNOPSIS
SWAPSNAPSHOT

RESULTS
-

EXAMPLE

```
options results
address 'RX_Primiview'
```

swapsnapshot

1.35 history

History

V39.15 (Jan 17th 1998)

- NEW: AREXX interface and scripts for interaction with DB
 - NEW: Score mode
 - NEW: quick gameinfo (shown in comment window)
-

- Primiview searches the program directory (instead of the current directory) for '.prefs' and '.guide' now.
- NEW: 'Show Points' - search the comment for points and mark them on the board
- starting editing is easier now: if there is no node in the buffer, adding a stone by clicking adds the necessary (two) nodes automatically
- adding moves to root nodes forbidden now (this is bad style)
- fixed some bugs (check for OS, CTRL+D)

V39.13 (Mar 1st 1997)

- Edit / Save functionality added (finally!!)
- Online help (AmigaGuide)
- Loading multiple files into a window possible (a window may contain more than one SGF buffer)
- New variation style: variations shown as siblings (XGoban style)
- New mouse navigation functions (see
Commands
)
- New navigation command: "goto root path"
- Some functions have a new
key short-cut
- Capture of suicide moves added
- Removed "Strip Whitespace" menu item: it is done automatically now
- And bug fixes (as always :)

V39.10 (July 6th 1996)

- Primiview is able to keep several SGF files open simultaneously. (New menu-items: New / Close)
- Board windows are resizable now!! (as in version 0.1 :-)
- Added support for different goban sizes (9x9, 13x13, etc.)
- Final reorganization of internal structure: properties of a node are stored as a list instead of a single string.
- Many new properties recognized. The most important are: WL/BL (w/b time left), TW/TB (w/b territory), LB (board label)
- New commands:
Shift + Help = Previous variation
Alt + Help = Goto variation 'A'
Shift + Del = Goto end of current variation
F-keys : Pressing twice jumps back to previous position (for easier comparison of two positions)
(Shift+)Alt+Space = Same as CSR up / CSR down
'Strip whitespace' - See 'usage' for more info
'Snap1 <-> Snap2' - See 'usage' for more info
- Primiview is no longer compiled with STACKEXTEND-option as this SAS-routine is buggy. Be sure to increase the stack to a proper size (e.g. 20000) if started from CLI.
- Bug fixes, minor enhancements, etc.

V39.8 (Mar 31st 1996)

- Completely recoded SGF-parsing
-

- Now Primiview builds up a real TREE-structure!
- New commands: CSR down, Shift+Space, LMB, next-variation (Help), redraw (<Return>), bookmarks (F-keys), goto ('G'), next/prev-comment (Shift+CSR down/up), 10 nodes forward/backward (Shift + CSR right/left), close unnecessary windows (ESC)
 - Placing stones on board added (Shift+LMB)
 - Output in comment & info-window is word-wrapped now
 - Info-window displays more info on a game-file
 - Variation window is kept open and contains: move-description (number, place), number of black and white prisoners and the node number
 - Again: several bug-fixes, some of them were really tough to hunt down - but I got'em ;-)
 - And of course a lot of other minor enhancements, too many to list all of them :)

V39.6 (Dec 2nd 1995)

- Board-window title shows filename
- Junk in front of the first "(;" is skipped (no need to remove mail-headers any longer)
- Variation handling fixed; is now 100% ok (hopefully ;-)
- CRSR UP command implemented
- Nodenames in variation window shown
- Variation-move look ahead (shows first move of each variation)
- Documentation now in GUIDE-format
- Tons of bug fixes; compiled with STRICT option; made Primiview a lot safer; Primiview runs without Enforcer-hits (at least on my machine)

V39.4 (May 30th 1995)

- Made variation window size itself automatically
- Fixed the hopefully last enforcer hits and the screen scrolling bug. Primiview `_should_` no longer guru and now has at least one goto-instruction in source. :-)
- Fixed the variations-bug. Now variations `_should_` work all the time.

V39.0 (May 11th 1995)

- Primiview TNG aka Primiview 2.0 alpha was released after a couple days of hard work. :-)
97% of the code was written from scratch - I only copied and modified a couple routines from the old Primiview.

V36.0 (Late 1993-early 1994)

- The first generation primiview was being coded and released. God it was awfully primitive.
-

1.36 limitations

Limitations

- If a node has lots of comments some of them won't fit into the comment window and won't be shown. Usually this is no problem, but if you review a game with lots of kibitzes some of them may not show up. I have NO plans to include any kind of feature to go around this. Primiview is primitive. You get what you pay for. If this is a problem use larger screen and smaller font. :-)
- Don't really know what Primiview does if it gets low on memory. Better not to find out. :o)
- Primiview expects a valid, syntactically correct SGF-file. Some errors in a SGF-file don't disturb Primiview, others do. It may even be possible that an incorrect SGF-file crashes Primiview!

Known Bugs

Currently I'm not aware of any problems using Primiview.
If you discover a bug please don't hesitate to contact me at:

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Please don't forget to mention the version of Primiview you're using.
If possible supply the SGF-file and indicate where the error occurs.
Thanks!

1.37 todo

ToDo

- o Support of FF[4] (the latest SGF standard)
 - o An improved (error-tolerant) SGF parser
 - o More sophisticated edit functions
 - o enhance AREXX support
 - o Improve the look of Primiview (nice goban & stone graphics)
 - o Database functions (joseki / fuseki / pattern)
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