GFF2APLOT

USER's

MANUAL

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1 Command-line Options Description

-v
--verbose

By default, warnings and errors are sent to standard error. This option switches on process reporting messages to appear on standard error too.

-V <*logs_filename*>
--logs-filename <*logs_filename*>

If is possible to open '<*logs_filename*>' then such file will contain all the messages and warnings produced by the program even though they will be disabled from standard error with '**--quiet**' option.

-q
--quiet

This option disables any message or warning from standard error. It does not disable error report because such errors are pointing a problem which can make **GFF2APLOT** produce unexpected results. Solve the cause of such problems before continuing to run the program in a silent mode.

--feature-var '<*feature::variable=value*>**'**

Loading a customization variable for a GFF feature element from command-line.

--group-var '<*group::variable=value*>**'**

Loading a customization variable for a GFF group element from command-line.

--strand-var '<*strand::variable=value*>**'**

Loading a customization variable for a GFF strand element from command-line.

--source-var '<*source::variable=value*>**'**

Loading a customization variable for a GFF source element from command-line.

--sequence-var '<*sequence::variable=value*>**'**

Loading a customization variable for a GFF sequence element from command-line.

--layout-var '<*variable=value*>**'**

Loading a customization variable for page layout from command-line.

-O <*custom_filename*>
--custom-filename <*custom_filename*>

Loading customization parameters from '<*custom_file*>'. Now you can load several customization files by passing this option several times. The precedence is the input order in the command-line, so, for the common definitions, the last '<*custom_file*>' will override previous '<*custom_files*>' settings.

2 Customization Variables Description

title=<*string*> **Default = align_name**

'**title**' sets the main title for the figure, by default showing <*align_name*> in the form of 'sequence1_name x sequence2_name'.

align_tag=<*string*> **Default = Target**

'**align_tag**' holds the specific tag (for a grouping Tag-Value pair) to detect those GFF records coding for alignment data and having the following group structure:

align_tag "group_name" <*seq2_start*> <*seq2_end*> [; Strand <*seq2_strand*> \\
[; Frame <*seq2_frame*> [; E_value <*score*>]]]

so the program can recover the coords for the target sequence from the grouping fields. Remember that tags are not case-sensitive.

vector_tag=<*string*> **Default = Vector**

'**vector_tag**' sets the specific tag (for a grouping Tag-Value pair) to detect scoring vector GFF records, which have the following group structure:

vector_tag "group_name" <*vector_type*> [; Window <*window_length*> \\
[; Step <*step_length*>]] ; Scores <$score_0$> ... <$score_n$>

so the program can parse the list of single scores from the grouping fields. Remember that tags are not case-sensitive.

label_tag=<*string*> **Default = Id**

'**label_tag**' sets the specific tag (for a grouping Tag-Value pair) that allows to identify a single record. The program looks for the grouping Tag-Value pair for which the tag matches '**label_tag**' and takes '**value**' as the specific record label. You must have an attribute like this within the grouping attribute list:

. . . ; label_tag "element_label" [; . . .

Using this attribute makes easy to set specific properties for one or more elements. Remember that tags are not case-sensitive.

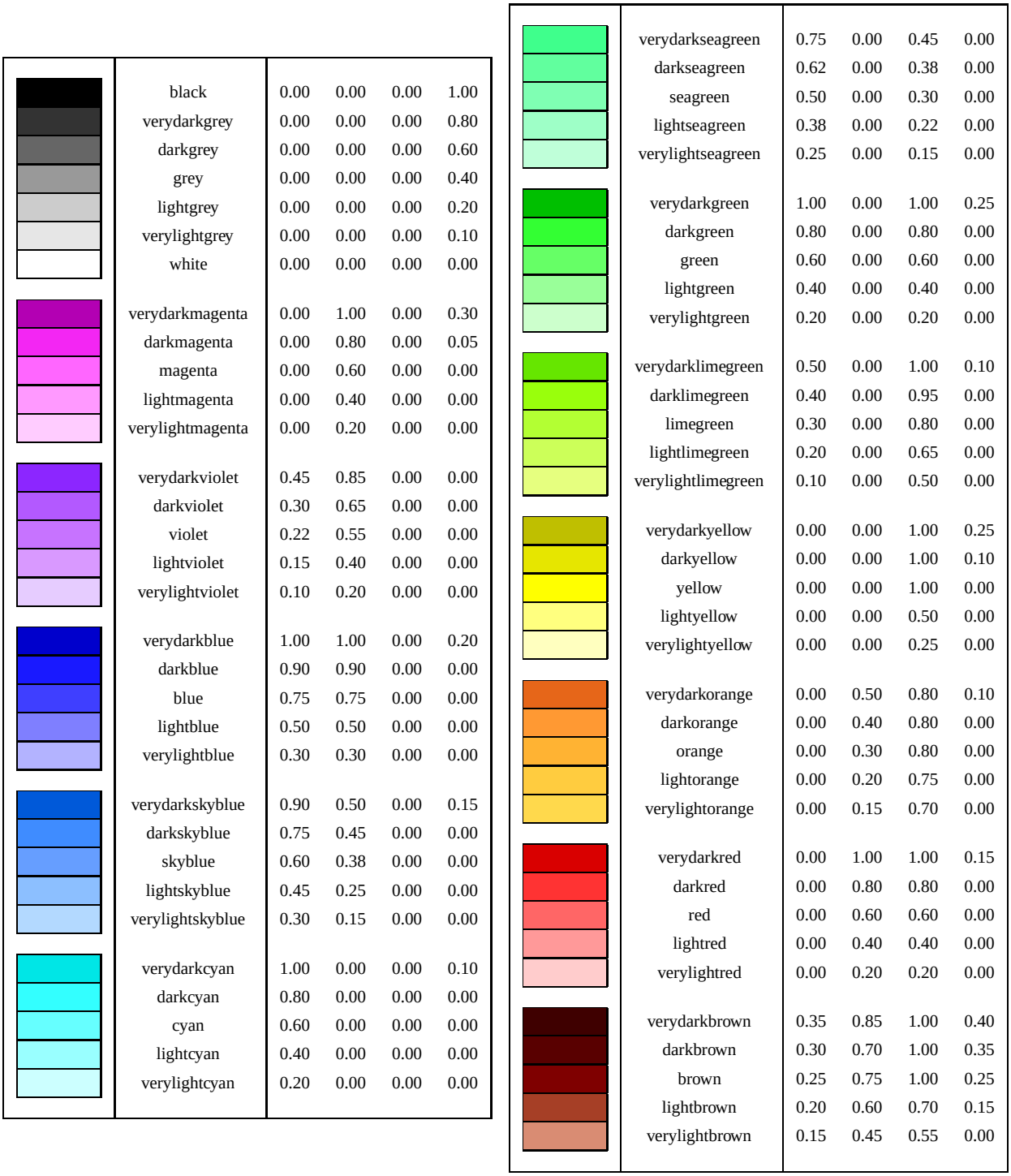
A Command-Line Options Summary for GFF2APLOT.

-h , **--help**	Shows this help.
--version	Shows current version and exits.
-v , **--verbose**	Verbose mode, a full report is sent to standard error.
-V , **--logs-filename** <*file*>	Report is written to a log file.
-q , **--quiet**	Quiet mode, messages/warnings disabled (only ERRORS are reported)
--feature-var '<*feature::variable=value*>**'**	Set a feature customization variable from command-line.
--group-var '<*group::variable=value*>**'**	Set a group customization variable from command-line.
--strand-var '<*strand::variable=value*>**'**	Set a strand customization variable from command-line.
--source-var '<*source::variable=value*>**'**	Set a source customization variable from command-line.
--sequence-var '<*sequence::variable=value*>**'**	Set a sequence customization variable from command-line.
--layout-var '<*variable=value*>**'**	Set a layout customization variable from command-line.
-O , **--custom-filename** <*file*>	Read customization parameters from file.

<*int*>	An integer value.
<*float*>	A float value.
<*string*>	A free text string, single or double-quoted if special chars or white-spaces/tabs are present respectively.
<*format*>	Page format, see available values on Appendix 2 table.
<*color*>	A color name chosen from table on Appendix 1.
<*file*>	A valid file name (including path if necessary).
NOTE:	When a parameter is required, it applies for both short and long options.

B Customization Variables Sumary for GFF2APLOT.

C CMYK color definition



black	0.00	0.00	0.00	1.00
verydarkgrey	0.00	0.00	0.00	0.80
darkgrey	0.00	0.00	0.00	0.60
grey	0.00	0.00	0.00	0.40
lightgrey	0.00	0.00	0.00	0.20
verylightgrey	0.00	0.00	0.00	0.10
white	0.00	0.00	0.00	0.00
verydarkmagenta	0.00	1.00	0.00	0.30
darkmagenta	0.00	0.80	0.00	0.05
magenta	0.00	0.60	0.00	0.00
lightmagenta	0.00	0.40	0.00	0.00
verylightmagenta	0.00	0.20	0.00	0.00
verydarkviolet	0.45	0.85	0.00	0.00
darkviolet	0.30	0.65	0.00	0.00
violet	0.22	0.55	0.00	0.00
lightviolet	0.15	0.40	0.00	0.00
verylightviolet	0.10	0.20	0.00	0.00
verydarkblue	1.00	1.00	0.00	0.20
darkblue	0.90	0.90	0.00	0.00
blue	0.75	0.75	0.00	0.00
lightblue	0.50	0.50	0.00	0.00
verylightblue	0.30	0.30	0.00	0.00
verydarkskyblue	0.90	0.50	0.00	0.15
darkskyblue	0.75	0.45	0.00	0.00
skyblue	0.60	0.38	0.00	0.00
lightskyblue	0.45	0.25	0.00	0.00
verylightskyblue	0.30	0.15	0.00	0.00
verydarkcyan	1.00	0.00	0.00	0.10
darkcyan	0.80	0.00	0.00	0.00
cyan	0.60	0.00	0.00	0.00
lightcyan	0.40	0.00	0.00	0.00
verylightcyan	0.20	0.00	0.00	0.00
verydarkseagreen	0.75	0.00	0.45	0.00
darkseagreen	0.62	0.00	0.38	0.00
seagreen	0.50	0.00	0.30	0.00
lightseagreen	0.38	0.00	0.22	0.00
verylightseagreen	0.25	0.00	0.15	0.00
verydarkgreen	1.00	0.00	1.00	0.25
darkgreen	0.80	0.00	0.80	0.00
green	0.60	0.00	0.60	0.00
lightgreen	0.40	0.00	0.40	0.00
verylightgreen	0.20	0.00	0.20	0.00
verydarklimegreen	0.50	0.00	1.00	0.10
darklimegreen	0.40	0.00	0.95	0.00
limegreen	0.30	0.00	0.80	0.00
lightlimegreen	0.20	0.00	0.65	0.00
verylightlimegreen	0.10	0.00	0.50	0.00
verydarkyellow	0.00	0.00	1.00	0.25
darkyellow	0.00	0.00	1.00	0.10
yellow	0.00	0.00	1.00	0.00
lightyellow	0.00	0.00	0.50	0.00
verylightyellow	0.00	0.00	0.25	0.00
verydarkorange	0.00	0.50	0.80	0.10
darkorange	0.00	0.40	0.80	0.00
orange	0.00	0.30	0.80	0.00
lightorange	0.00	0.20	0.75	0.00
verylightorange	0.00	0.15	0.70	0.00
verydarkred	0.00	1.00	1.00	0.15
darkred	0.00	0.80	0.80	0.00
red	0.00	0.60	0.60	0.00
lightred	0.00	0.40	0.40	0.00
verylightred	0.00	0.20	0.20	0.00
verydarkbrown	0.35	0.85	1.00	0.40
darkbrown	0.30	0.70	1.00	0.35
brown	0.25	0.75	1.00	0.25
lightbrown	0.20	0.60	0.70	0.15
verylightbrown	0.15	0.45	0.55	0.00

Table 1: GFF2APLOT CMYK color definition table and Color Names.

D Page format definition

PAGE FORMAT	PAGE SIZE					
	(in points)		(in cms)		(in inches)	
a0	2384	3370	84.1	118.9	33.1	46.8
a1	1684	2384	59.4	84.1	23.4	33.1
a2	1190	1684	42.0	59.4	16.5	23.4
a3	842	1190	29.7	42.0	11.7	16.5
a4	595	842	21.0	29.7	8.3	11.7
a5	420	595	14.8	21.0	5.8	8.3
a6	297	420	10.5	14.8	4.1	5.8
a7	210	297	7.4	10.5	2.9	4.1
a8	148	210	5.2	7.4	2.1	2.9
a9	105	148	3.7	5.2	1.5	2.1
a10	73	105	2.6	3.7	1.0	1.5
b0	2920	4127	103.0	145.6	40.6	57.3
b1	2064	2920	72.8	103.0	28.7	40.6
b2	1460	2064	51.5	72.8	20.3	28.7
b3	1032	1460	36.4	51.5	14.3	20.3
b4	729	1032	25.7	36.4	10.1	14.3
b5	516	729	18.2	25.7	7.2	10.1
b6	363	516	12.8	18.2	5.0	7.2
b7	258	363	9.1	12.8	3.6	5.0
b8	181	258	6.4	9.1	2.5	3.6
b9	127	181	4.5	6.4	1.8	2.5
b10	91	127	3.2	4.5	1.3	1.8
executive	540	720	19.0	25.4	7.5	10.0
folio	612	936	21.6	33.0	8.5	13.0
legal	612	1008	21.6	35.6	8.5	14.0
letter	612	792	21.6	27.9	8.5	11.0
quarto	610	780	21.5	27.5	8.5	10.8
statement	396	612	14.0	21.6	5.5	8.5
10x14	720	1008	25.4	35.6	10.0	14.0
ledger	1224	792	43.2	27.9	17.0	11.0
tabloid	792	1224	27.9	43.2	11.0	17.0

Table 2: Page Sizes defined in **GFF2APLOT**.