1 Installation

2 Commands

2.1 grid

Definition:

Restricitons: None.

2.2 xlabel

Definition:

Restricitons: If setlog is called xlabel should be called beforehand.

Examples:

```
Figure fig;
fig.plot(x, y, "+g"); // '+g' equals matlab/python '+-g'
fig.xlabel("Linear x axis");
fig.save("plot.eps");

Figure fig;
fig.setlog(true, true);
fig.plot(x, y, "+g");
fig.xlabel("Logarithmic x axis"); // Not good - should be called before 'setlog'
fig.save("plot.eps");

Figure fig;
fig.xlabel("Logarithmix x axis"); // Good
fig.setlog(true, true);
fig.plot(x, y, "+g");
fig.plot(x, y, "+g");
fig.save("plot.eps");
```

2.3 ylabel

Definition:

Restricitons: If setlog is called ylabel should be called beforehand.

Examples: See xlabel.

2.4 legend

Definition:

Restricitons: None.

2.5 setlog

Definition:

Restricitons: All plots will use the latest setlog options or default if none have been set. **Examples:**

```
Figure fig;
fig.setlog(true, false); // -> semilogx
fig.plot(x0, y0, "b");
fig.setlog(false, true); // -> semilogy
fig.plot(x1, y1, "r");
fig.setlog(true, true); // -> loglog
fig.plot(x2, y2, "g");
fig.save("plot.eps"); // ATTENTION: all plots will have been plotted in loglog-scale

Figure fig;
fig.plot(x, y, "b");
fig.save("plot.eps"); // -> default (= linear) scaling
```

2.6 plot

Definition:

Restricitons: x and y must have same length. Also note that the style-argument is required! **Examples:**

```
Figure fig;
fig.plot(x, y, "b");
fig.save("data.eps");

Figure fig;
fig.plot(x, y); // Not OK - style missing
fig.save("data.eps");
```

```
Figure fig;
fig.plot(x, y, " *r", "Data w/ red dots"); // ' *r' equals matlab/python 'r*'
fig.save("data.eps");
```

2.7 ranges

Definition:

Restricitons: xMin < xMax, yMin < yMax and ranges must be > 0 for axis in logarithmic scale. **Examples:**

```
Figure fig;
fig.ranges(-1,1,-1,1);
fig.plot(x, y, "b");

Figure fig;
fig.plot(x, y, "b");
fig.ranges(0, 2.3, 4, 5); // ranges can be called before or after 'plot'
```

2.8 save

Definition:

```
void save( const char* file )
```

Restrictions: The file name must end on .eps!

```
{\bf Examples:}
```

```
Figure fig;
fig.save("plot.eps"); // OK

Figure fig;
fig.save("plot.png"); // Not OK - Only eps-format supported!
```

2.9 title

Definition:

```
void title( const char* text )
```

3 Plot styles

Linecolors a :

blue	b
green	g
red	r
cyan	С
magenta	m
yellow	У
gray	h
green-blue	1
sky-blue	n
orange	q
green-yellow	е
blue-violet	u
purple	p

^aUpper-case letters will give a darker version of the lower-case version.

Linestyles:

solid	-
dashed	;
small dashed	=
long dashed	1
dotted	:
dash-dotted	j
small dash-dotted	i

${\bf Linemarkers:}$

+	+
О	0
\diamond	d
\triangle	^
∇	v <
\triangleleft	<
\triangleright	>
\odot	#.
\blacksquare	#+
\boxtimes	#x