# pygrace Cheatsheet

This sheet is intended to be used to quickly look up attribute and method names. For a complete reference, including descriptions of methods, see the *pygrace Reference Manual*.

## Global — `pygrace.base.py`
(Shared by all objects)

Attributes

| | |
|---|---|
| root | Project |

Methods

- add_color
- cheatsheet
- children
- configure
- configure_group
- copy_format
- scale_suffix
- set_colors
- set_data_linewidths
- set_fonts
- set_linewidths
- set_suffix
- write_cheatsheet

## AnnotatedValue — `pygrace.dataset.py`

Attributes

| | |
|---|---|
| append | str |
| char_size | float |
| color | int |
| font | int |
| format | str |
| offset | tuple |
| onoff | str |
| parent | DataSet |
| prec | int |
| prepend | str |
| rot | int |
| type | int |

## Axis — `pygrace.axis.py`

Attributes

| | |
|---|---|
| alt | str |
| bar | AxisBar |
| invert | str |
| label | AxisLabel |
| offset | tuple |
| onoff | str |
| orientation | str |
| parent | Graph |
| scale | str |
| tick | Tick |
| ticklabel | TickLabel |
| type_zero | str |

Methods

- auto_precision
- set_format
- set_lin
- set_log
- set_scale

## AxisBar — `pygrace.axis.py`

Attributes

| | |
|---|---|
| color | int |
| linestyle | int |
| linewidth | int |
| onoff | str |
| parent | Axis |

## AxisLabel — `pygrace.axis.py`

Attributes

| | |
|---|---|
| char_size | float |
| color | int |
| font | int |
| layout | str |
| parent | Axis |
| place | str |
| place_loc | str |
| place_tup | tuple |
| text | str |

## Baseline — `pygrace.dataset.py`

Attributes

| | |
|---|---|
| onoff | str |
| parent | DataSet |
| type | int |

## DataSet — `pygrace.dataset.py`

Attributes

| | |
|---|---|
| avalue | AnnotatedValue |
| baseline | Baseline |
| comment | str |
| data | list |
| dropline | str |
| errorbar | ErrorBar |
| fill | Fill |
| hidden | str |
| index | int |
| legend | str |
| line | Line |
| parent | Graph |
| symbol | Symbol |
| type | str |

Methods

- data_bounds
- limits
- smallest_positive

## DrawBox — `pygrace.drawing_objects.py`

Attributes

| | |
|---|---|
| color | int |
| fill_color | int |
| fill_pattern | int |
| linestyle | int |
| linewidth | float |
| loctype | str |
| lowleft | tuple |
| onoff | str |
| parent | Graph |
| upright | tuple |

Methods

- limits
- smallest_positive

## DrawEllipse — `pygrace.drawing_objects.py`

Attributes

| | |
|---|---|
| color | int |
| fill_color | int |
| fill_pattern | int |
| linestyle | int |
| linewidth | float |
| loctype | str |
| lowleft | tuple |
| onoff | str |
| parent | Graph |
| upright | tuple |

Methods

| | |
|---|---|
| limits | |
| smallest_positive | |

## DrawLine — `pygrace.drawing_objects.py`

Attributes

| | |
|---|---|
| arrow | int |
| arrow_layout | tuple |
| arrow_length | int |
| arrow_type | int |
| color | int |
| end | tuple |
| linestyle | int |
| linewidth | float |
| loctype | str |
| onoff | str |
| parent | Graph |
| start | tuple |

Methods

- limits
- smallest_positive

## DrawText — `pygrace.drawing_objects.py`

Attributes

| | |
|---|---|
| char_size | float |
| color | int |
| font | int |
| just | int |
| loctype | str |
| onoff | str |
| parent | Graph |
| rot | int |
| text | str |
| x | int |
| y | int |

Methods

- limits
- smallest_positive

## ErrorBar — `pygrace.dataset.py`

Attributes

| | |
|---|---|
| color | int |
| linestyle | int |
| linewidth | float |
| onoff | str |
| parent | DataSet |
| pattern | int |
| place | str |
| riser_clip | str |
| riser_clip_length | float |
| riser_linestyle | int |
| riser_linewidth | float |
| size | float |

## Fill — `pygrace.dataset.py`

Attributes

| | |
|---|---|
| color | int |
| parent | DataSet |
| pattern | int |
| rule | int |
| type | int |

## Frame — `pygrace.graph.py`

Attributes

| | |
|---|---|
| background_color | int |
| background_pattern | int |
| color | int |
| linestyle | int |
| linewidth | float |
| parent | Graph |
| pattern | int |
| type | int |

## Graph — `pygrace.graph.py`

Attributes

| | |
|---|---|
| altxaxis | Axis |
| altyaxis | Axis |
| bar_hgap | float |
| datasets | list |
| drawing_objects | list |
| frame | Frame |
| hidden | str |
| index | int |
| legend | Legend |
| onoff | str |
| parent | Project |
| stacked | str |
| subtitle | Subtitle |
| title | Title |
| type | str |
| view | View |
| world | World |
| xaxis | Axis |
| yaxis | Axis |

Methods

- add_dataset
- add_drawing_object
- alldata
- autoformat
- autoscale
- autoscale_old
- autoscalex
- autoscaley
- autotick
- autotickx
- autoticky
- calculate_sizes
- calculate_ticks
- data_limits
- data_smallest_positive
- drawing_object_limits
- drawing_object_smallest_positive
- format_for_print
- get_dataset
- get_view
- get_world
- half_open
- limits
- linx
- linxy
- liny
- logx
- logxy
- logy
- move_dataset_backward
- move_dataset_forward
- move_dataset_to_back
- move_dataset_to_front
- remove_extraworld_drawing_objects
- set_dataset_order

set_different_colors
set_different_linestyles
set_different_linewidths
set_different_symbols
set_labels
set_view
set_world
set_world_to_limits
smallest_positive

**Legend**  `pygrace.graph.py`

Attributes

| | |
|---|---|
| box_color | int |
| box_fill_color | int |
| box_fill_pattern | int |
| box_linestyle | int |
| box_linewidth | float |
| box_pattern | int |
| char_size | float |
| color | int |
| font | int |
| hgap | int |
| invert | str |
| length | int |
| loc | tuple |
| loctype | str |
| onoff | str |
| parent | Graph |
| vgap | int |

**Line**  `pygrace.dataset.py`

Attributes

| | |
|---|---|
| color | int |
| linestyle | int |
| linewidth | float |
| parent | DataSet |
| pattern | int |
| type | int |

**Project**  `pygrace.project.py`

Attributes

| | |
|---|---|
| background_color | int |
| background_fill | str |
| colors | DefaultColorScheme |
| drawing_objects | list |
| fonts | FontSet |
| graphs | list |
| height | int |
| max_canvas_height | float |
| max_canvas_width | float |
| parent | NoneType |
| timestamp | Timestamp |
| verbose | bool |
| version | str |
| width | int |

Methods

add_drawing_object
add_graph
autoformat
autoscale
autoscale_same
autoscalex_same
autoscaley_same
clone_graph
get_canvas_dimensions
get_eps_frame_coords
get_graph
printfile
saveall
set_landscape
set_portrait
set_world_same
write_agr
write_file

**Subtitle**  `pygrace.graph.py`

Attributes

| | |
|---|---|
| color | int |
| font | int |
| parent | Graph |
| size | float |
| text | str |

**Symbol**  `pygrace.dataset.py`

Attributes

| | |
|---|---|
| char | int |
| char_font | int |
| color | int |
| fill_color | int |
| fill_pattern | int |
| linestyle | int |
| linewidth | float |
| parent | DataSet |
| pattern | int |
| shape | int |
| size | float |
| skip | int |

**Tick**  `pygrace.axis.py`

Attributes

| | |
|---|---|
| default | int |
| inout | str |
| major | float |
| major_color | int |
| major_grid | str |
| major_linestyle | int |
| major_linewidth | float |
| major_size | float |
| minor_color | int |
| minor_grid | str |
| minor_linestyle | int |
| minor_linewidth | float |
| minor_size | float |
| minor_ticks | int |
| onoff | str |
| parent | Axis |
| place | str |
| place_rounded | str |
| spec_labeldefault | str |
| spec_ticklabels | tuple |
| spec_ticks | tuple |
| spec_ticktypes | tuple |
| spec_type | str |
| spec_typedefault | str |

Methods

set_spec_ticks

**TickLabel**  `pygrace.axis.py`

Attributes

| | |
|---|---|
| angle | int |
| append | str |
| char_size | float |
| color | int |
| font | int |
| format | str |
| formula | str |
| offset_loc | str |
| offset_tup | tuple |
| onoff | str |
| parent | Axis |
| place | str |
| prec | int |
| prepend | str |
| skip | int |
| stagger | int |
| start | float |
| start_type | str |
| stop | float |
| stop_type | str |

**Timestamp**  `pygrace.project.py`

Attributes

| | |
|---|---|
| char_size | float |
| color | int |
| font | int |
| onoff | str |
| parent | Project |
| rot | int |
| x | float |
| y | float |

**Title**  `pygrace.graph.py`

Attributes

| | |
|---|---|
| color | int |
| font | int |
| parent | Graph |
| size | float |
| text | str |

**View**  `pygrace.graph.py`

Attributes

| | |
|---|---|
| parent | Graph |
| xmax | float |
| xmin | float |
| ymax | float |
| ymin | float |

**World**  `pygrace.graph.py`

Attributes

| | |
|---|---|
| parent | Graph |
| stack_world | tuple |
| xmax | int |
| xmin | int |
| ymax | int |
| ymin | int |
| znorm | int |