
dashing

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CHAPTER 1

Overview

Dashing allows to quickly create terminal-based dashboards in Python.

It focuses on practicality over completeness. If you want to have complete control over every character on the screen, use ncurses or similar.

Dashing automatically fills the screen with “tiles”.

There are 2 type of “container” tiles that allow vertical and horizontal splitting called VSplit and HSplit. Dashing scales them based on the screen size.

Any tile passed as argument at init time will be nested using the `.items` attribute

`.items` can be used to access, add or remove nested tiles.

You can easily extend Dashing with new tile types. Subclass `Tile`, implement `__init__` and `_display`. See `dashing.py` for examples.

The other types of tiles are:

- *Text* - simple text
- *Log* - a log pane that scrolls automatically
- *HGauge* - horizontal gauge
- *VGauge* - vertical gauge
- *ColorRangeVGauge* - vertical gauge with coloring
- *VChart* - vertical chart
- *HChart* - horizontal chart
- *HBraillleChart*
- *HBraillleFilledChart*

All tiles accept `title`, `color`, `border_color` keywords arguments at init time.

Gauges represent an instant value between 0 and 100. You can set a value at init time using the `val` keyword argument or access the `.value` attribute at any time.

Charts represent a sequence of values between 0 and 100 and scroll automatically.

Call `display()` on the root element to display or update the ui.

You can easily nest splits and tiles as in:

```
ui = HSplit(  
    VSplit(  
        HGauge(val=50, title="foo", border_color=5),  
    )  
)  
  
# access a tile by index  
gauge = ui.items[0].items[0]  
gauge.value = 3.0  
  
# display/refresh the ui  
ui.display()
```

class `dashing.dashing.ColorRangeVGauge` (*val=100, colormap=()*, ***kw*)
Vertical gauge with color map. E.g.: green gauge for values below 50, red otherwise: `colormap=((50, 2), (100, 1))`

class `dashing.dashing.HBrailleChart` (*val=100, *args, **kw*)
Horizontal chart made with dots

append (*dp*)
Append a new value: int or float between 1 and 100

class `dashing.dashing.HBrailleFilledChart` (*val=100, *args, **kw*)
Horizontal chart, filled with dots

append (*dp*)
Append a new value: int or float between 1 and 100

class `dashing.dashing.HChart` (*val=100, *args, **kw*)
Horizontal chart, filled

append (*dp*)
Append a new value: int or float between 1 and 100

class `dashing.dashing.HGauge` (*label=None, val=100, color=2, **kw*)
Horizontal gauge

class `dashing.dashing.HSplit` (**items, **kw*)

class `dashing.dashing.Log` (**args, **kw*)
A log pane that scrolls automatically. Add new lines with `append()`

append (*msg*)
Append a new log message at the bottom

class `dashing.dashing.Split` (**items, **kw*)
Split a box vertically (VSplit) or horizontally (HSplit)

class `dashing.dashing.TBox` (*t, x, y, w, h*)

h
Alias for field number 4

t
Alias for field number 0

w
Alias for field number 3

x
Alias for field number 1

y
Alias for field number 2

class `dashing.dashing.Text` (*text*, *color=0*, **args*, ***kw*)
A multi-line text box. Example:

`Text('Hello World, this is dashing.', border_color=2),`

class `dashing.dashing.VChart` (*val=100*, **args*, ***kw*)
Vertical chart. Values must be between 0 and 100 and can be float.

append (*dp*)
Append a new value: int or float between 1 and 100

class `dashing.dashing.VGauge` (*val=100*, *color=2*, ***kw*)
Vertical gauge

class `dashing.dashing.VSplit` (**items*, ***kw*)

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