CHAPTER

ONE

PATIENCEBAR PACKAGE

1.1 Submodules

1.2 patiencebar.patiencebar module

```
class patiencebar.patiencebar.Patiencebar (valmax=100, barsize=None, ti-tle=None, bar=True, up\_every=2)

Bases: object
```

Provides a terminal-friendly single-thread progress bar

Args:

- valmax (float): the finish value of the progress bar. Default is 100.
- barsize (int >0): the size of the bar in the opened terminal. If None, the bar will automatically fit the width of the window.
- title (str): the title, printed one line above the progress bar
- bar (bool): whether the bar should be displayed or not. If False, only the text given at each update() will be printed
- up_every (int [0-100]): if bar is True, the progress bar will be updated every up_every percent of progress. Setting up_every = 0 updates the progress bar at each update()

```
>>> import patiencebar as PB
>>> n_calc = 34
>>> pb = PB.Patiencebar(valmax=n_calc, barsize=50, title="Test bar")
>>> for i in range(n_calc):
>>> do_stuff()
>>> pb.update()
```

bar

barsize

reset (valmax=None, barsize=None, title=None, bar=None, up_every=None)
Resets the progress bar with initialization values, unless new values are given Args:

- valmax (float): the finish value of the progress bar. Default is 100.
- barsize (int >0): the size of the bar in the opened terminal. If None, the bar will automatically fit the width of the window.
- title (str): the title, printed one line above the progress bar.
- bar (bool): whether the bar should be displayed or not. If False, only the text given at each update() will be printed.

• up_every (int [0-100]): if bar is True, the progress bar will be updated every up_every percent of progress. Setting up_every = 0 updates the progress bar at each update().

```
>>> import patiencebar as PB
>>> n_calc = 34
>>> pb = PB.Patiencebar(valmax=n_calc, barsize=50, title="Test bar")
>>> for i in range(n_calc):
>>> do_stuff()
>>> pb.update()
>>> pb.reset(title="Second trial", barsize=70)
>>> for i in range(n_calc):
>>> do_stuff()
>>> pb.update()
```

running

title

up_every

update (step=None)

Updates the progress bar to a newer value

Args:

- step (None): adds 1 to the progress of the bar, where valmax is the finish value.
- step (float): sets the progress of the bar to the step value, where valmax is the finish value.
- step (str): displays step on a new line. For this to work, bar must be False (no progress bar displayed) otherwise the update instruction is ignored.

valmax

```
 \begin{array}{c} \textbf{class} \ \texttt{patiencebar.patiencebar.Patiencebarmulti} \ (\textit{valmax} = 100, \\ \textit{title} = \textit{None}, \\ \textit{up\_every} = 2) \\ \textbf{Bases:} \ \textit{patiencebar.patiencebar.Patiencebar} \end{array} \quad \begin{array}{c} \textit{barsize} = \textit{None}, \\ \textit{bar} = \textit{True}, \\ \textit{up\_every} = 2) \end{array}
```

Provides a terminal-friendly multi-thread progress bar

Args:

- valmax (float): the finish value of the progress bar. Default is 100.
- barsize (int >0): the size of the bar in the opened terminal. If None, the bar will automatically fit the width of the window.
- title (str): the title, printed one line above the progress bar
- bar (bool): whether the bar should be displayed or not. If False, only the text given at each update() will be printed
- up_every (int [0-100]): if bar is True, the progress bar will be updated every up_every percent of progress. Setting up_every = 0 updates the progress bar at each update()

```
>>> import patiencebar as PB
>>> from threading import Thread
>>> n_calc = 34
>>>
>>> def worker(pbm, otherarg, anotherarg):
>>> do_stuff(otherarg, anotherarg)
>>> pbm.update()
>>>
```

```
>>> pbm = PB.Patiencebarmulti(n_calc, 50, "Test bar")
>>> for i in range(n_calc):
>>> ttt = Thread(target=worker, args=(pbm, otherarg, anotherarg))
>>> ttt.daemon = True
>>> ttt.start()
```

reset (valmax=None, barsize=None, title=None, bar=None, up_every=None)

Resets the progress bar with initialization values, unless new values are given

Args:

- valmax (float): the finish value of the progress bar. Default is 100.
- barsize (int >0): the size of the bar in the opened terminal. If None, the bar will automatically fit the width of the window.
- title (str): the title, printed one line above the progress bar.
- bar (bool): whether the bar should be displayed or not. If False, only the text given at each update() will be printed.
- up_every (int [0-100]): if bar is True, the progress bar will be updated every up_every percent of progress. Setting up_every = 0 updates the progress bar at each update().

stop()

Stops the progress bar, in case it didn't stop naturally

update (step=None)

Updates the progress bar to a newer value

Args:

- step (None): adds 1 to the progress of the bar, where valmax is the finish value.
- step (float): sets the progress of the bar to the step value, where valmax is the finish value.
- step (str): displays step on a new line. For this to work, bar must be False (no progress bar displayed) otherwise the update instruction is ignored.

1.3 Module contents

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