Custom Jupyter Notebook Themes

#jupyter #jupyter-notebook #theme #css #syntax-highlighting #jupyter-themes

529 commits | 1 branch | 86 releases | 14 contributors | MIT

Branch: master | New pull request | Find file | Clone or download

dunovank bump version v0.18.2; fixed soft-selectd cells border style; other mi... ... Latest commit 3d954e5 13 days ago

jupyterthemes	bump version v0.18.2; fixed soft-selectd cells border style; other mi...	13 days ago
screens	Merge branch 'master' of https://github.com/dunovank/jupyter-themes	a month ago
tests	remove straggler from test_themes	9 months ago
.gitignore	bump version v0.16.8; attempt to fix lesscpy dependency	3 months ago
.travis.yml	bump version v0.16.3; removed broken matplotlib dependency	5 months ago
CHANGES.md	bump version v0.18.2; fixed soft-selectd cells border style; other mi...	13 days ago
LICENSE.txt	reorganized files	a year ago
MANIFEST.in	bump version v0.17.3, attempt to Windows bug errors on remove tempfil...	3 months ago
README.md	minor changes	20 days ago
index.ipynb	bump version v0.16.2; added matplotlib and seaborn dependencies, upda...	5 months ago
requirements.txt	bump version v0.17.7, removed depdendency checker	a month ago
setup.cfg	minor patch to setupcfg	a year ago
setup.py	bump version v0.18.2; fixed soft-selectd cells border style; other mi...	13 days ago

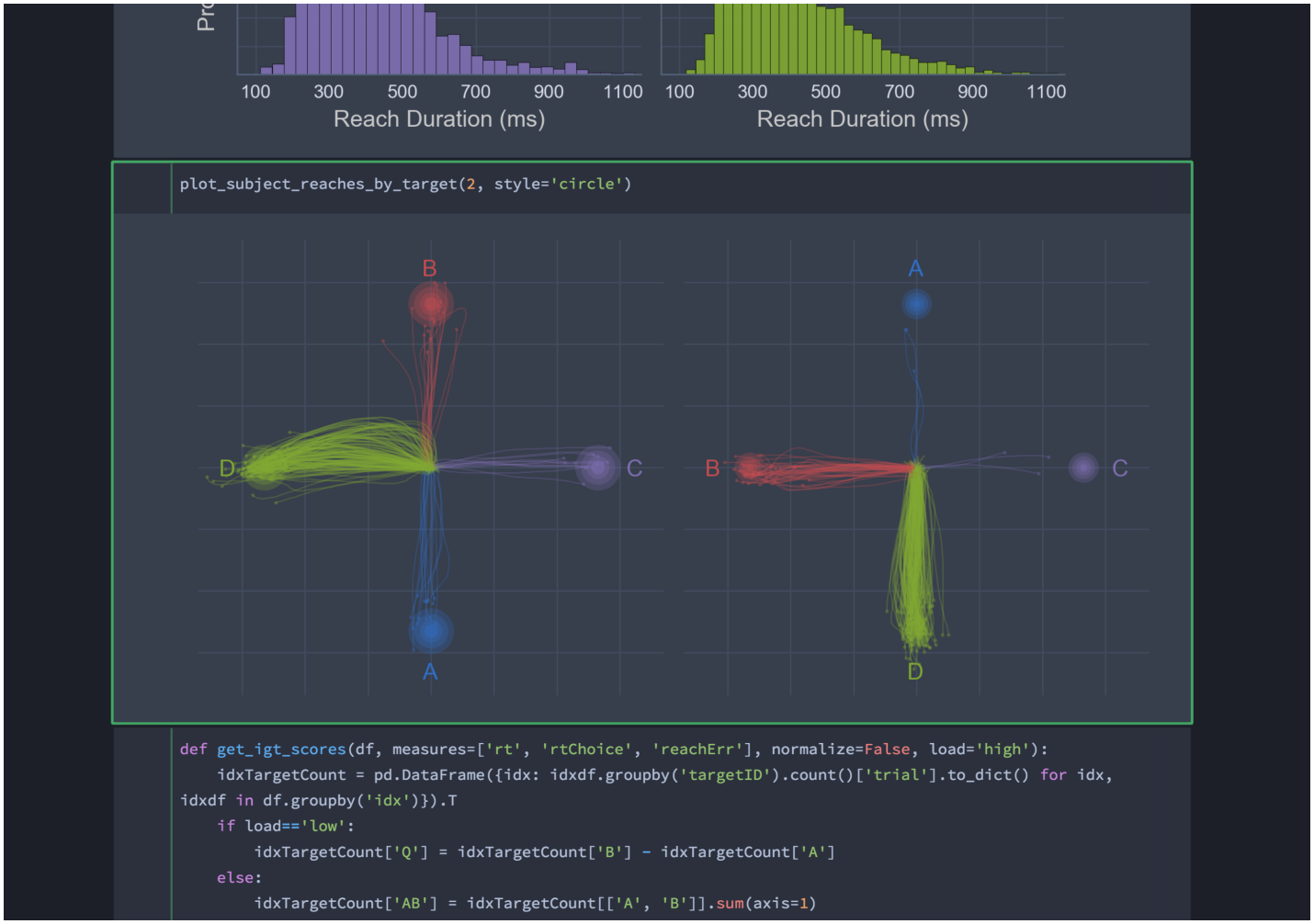
README.md

jupyterthemes

Theme-ify your Jupyter Notebooks!

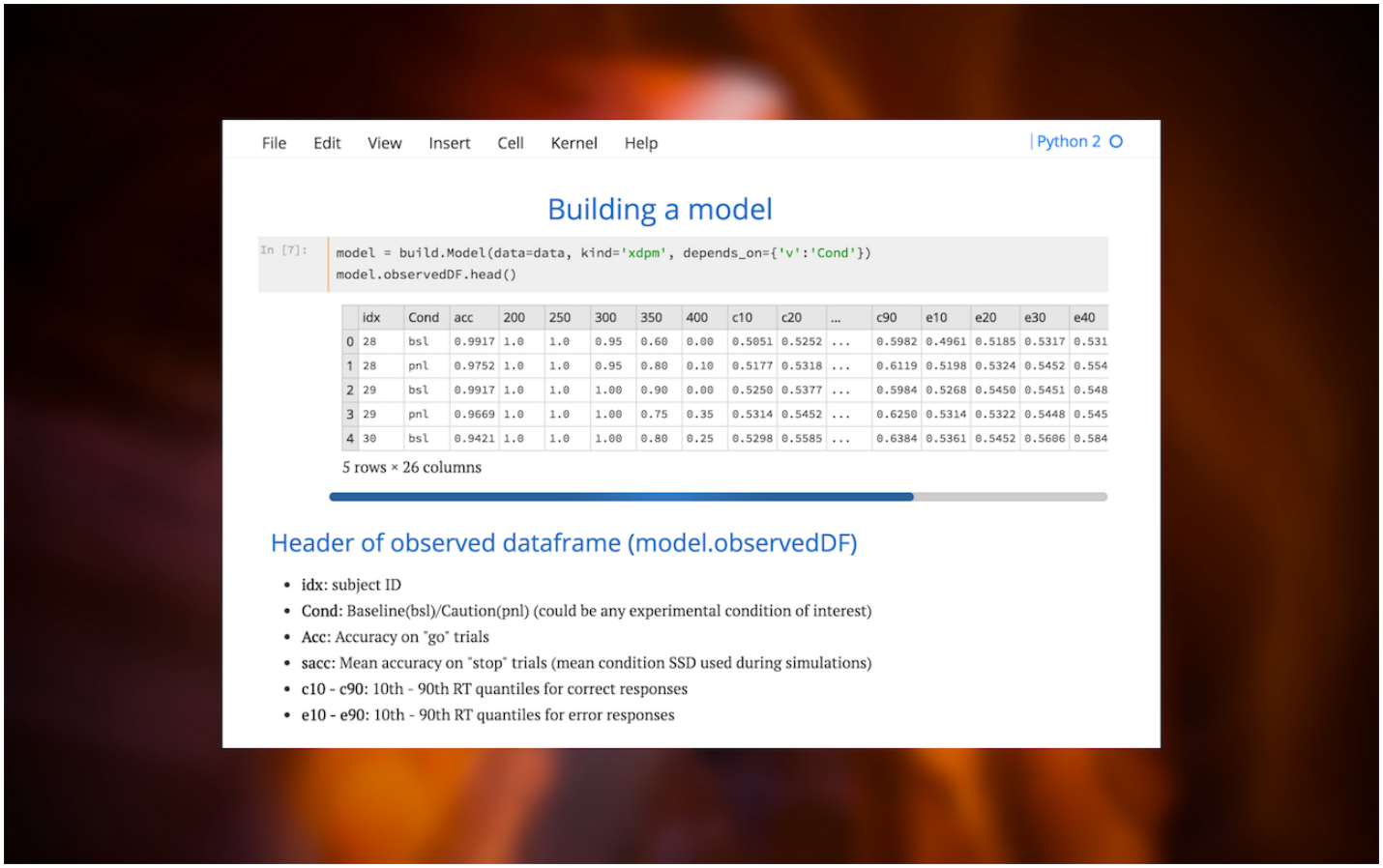
Author	Version	Status	Demo
Kyle Dunovan	pypi v0.18.2	build passing	launch binder

plotting style

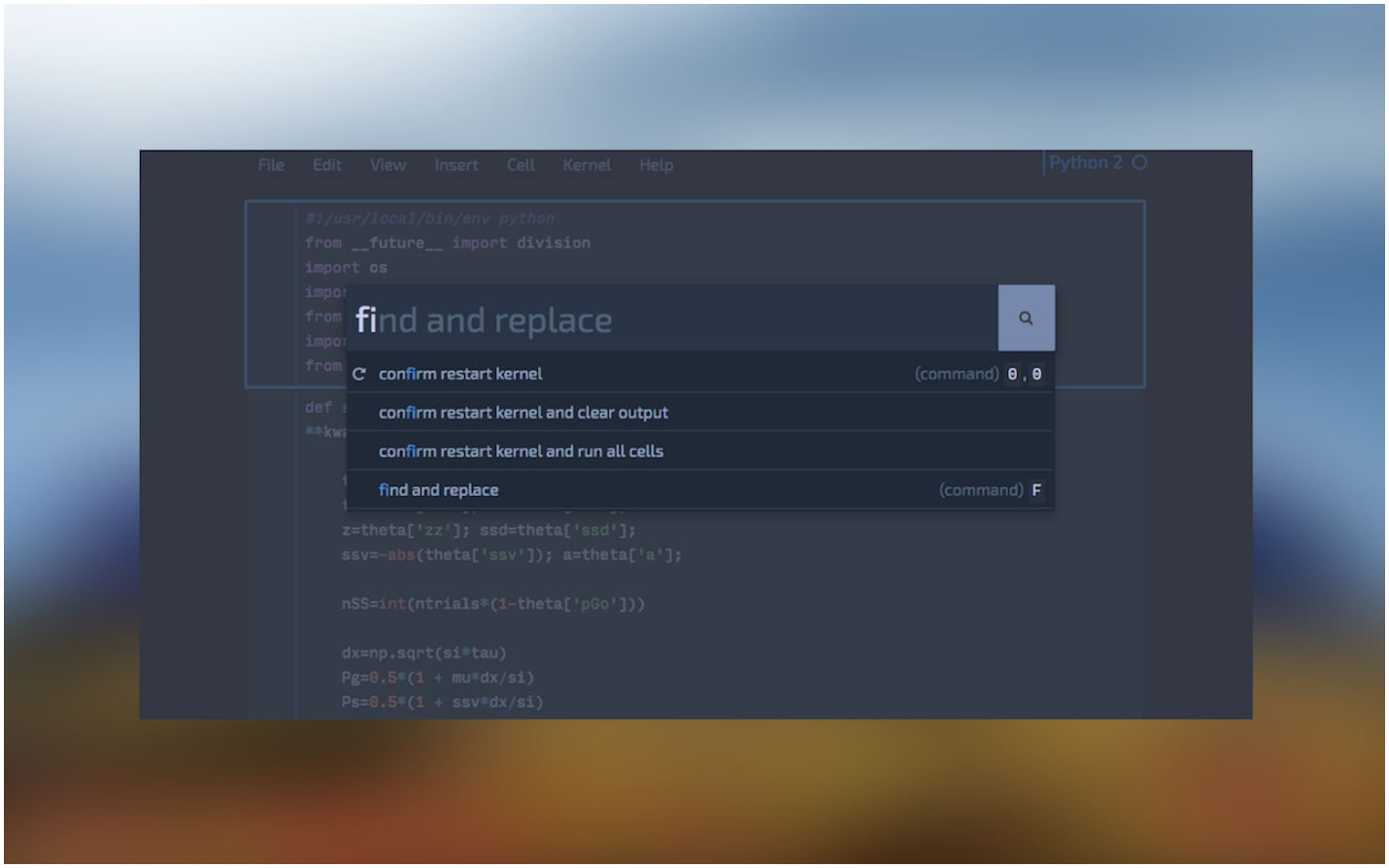


markdown/equations

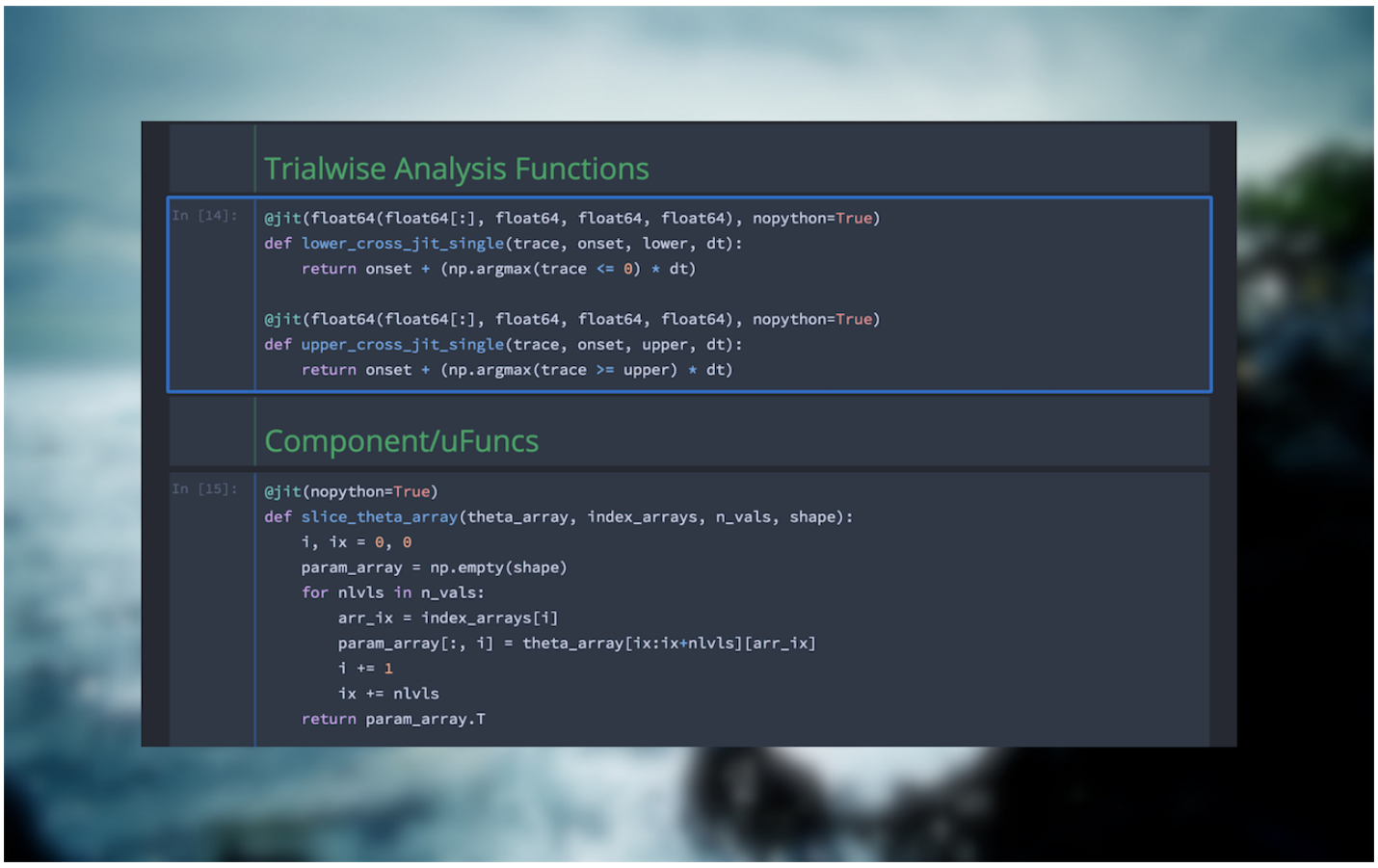
pandas dataframes



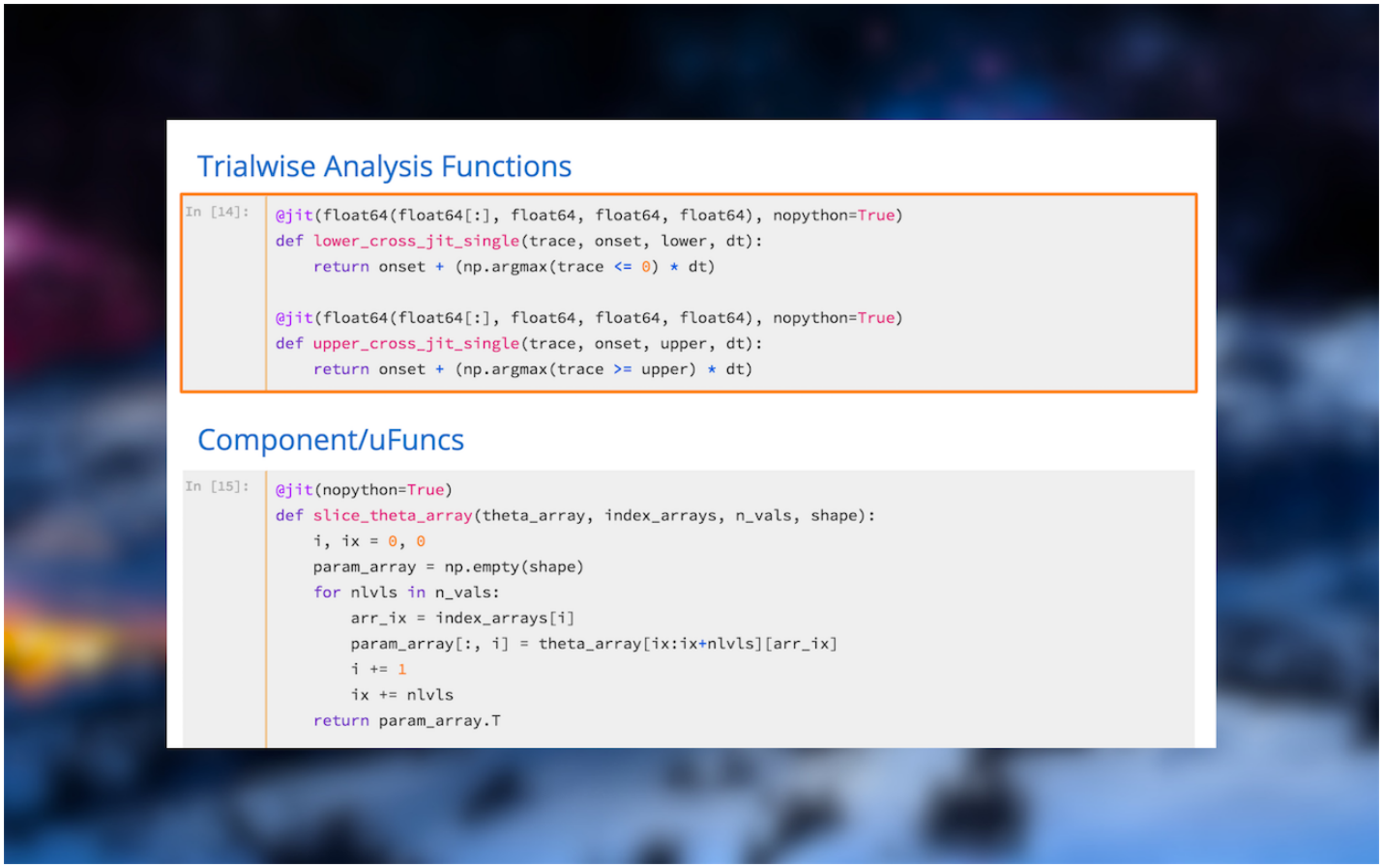
command palette



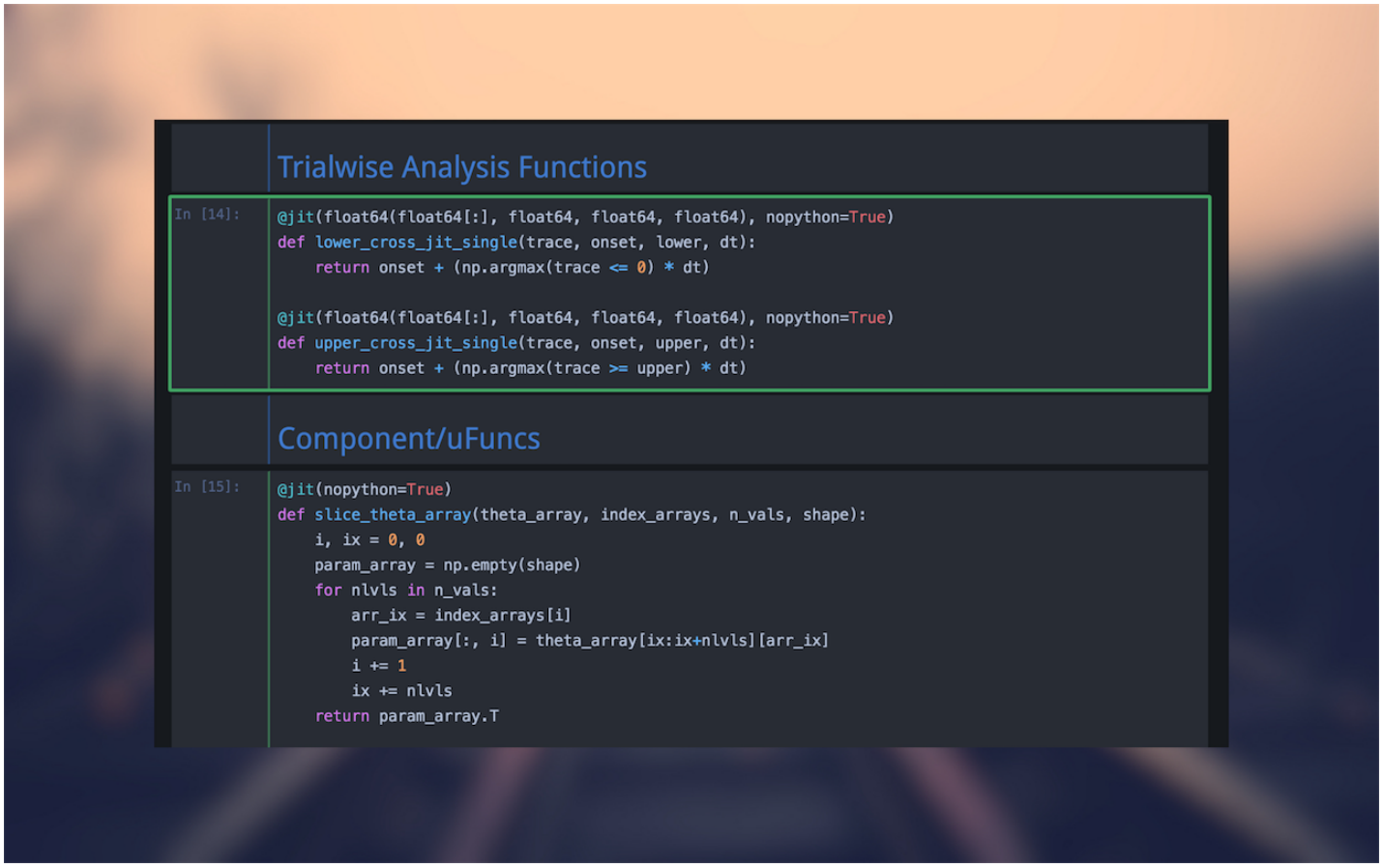
oceans16 syntax



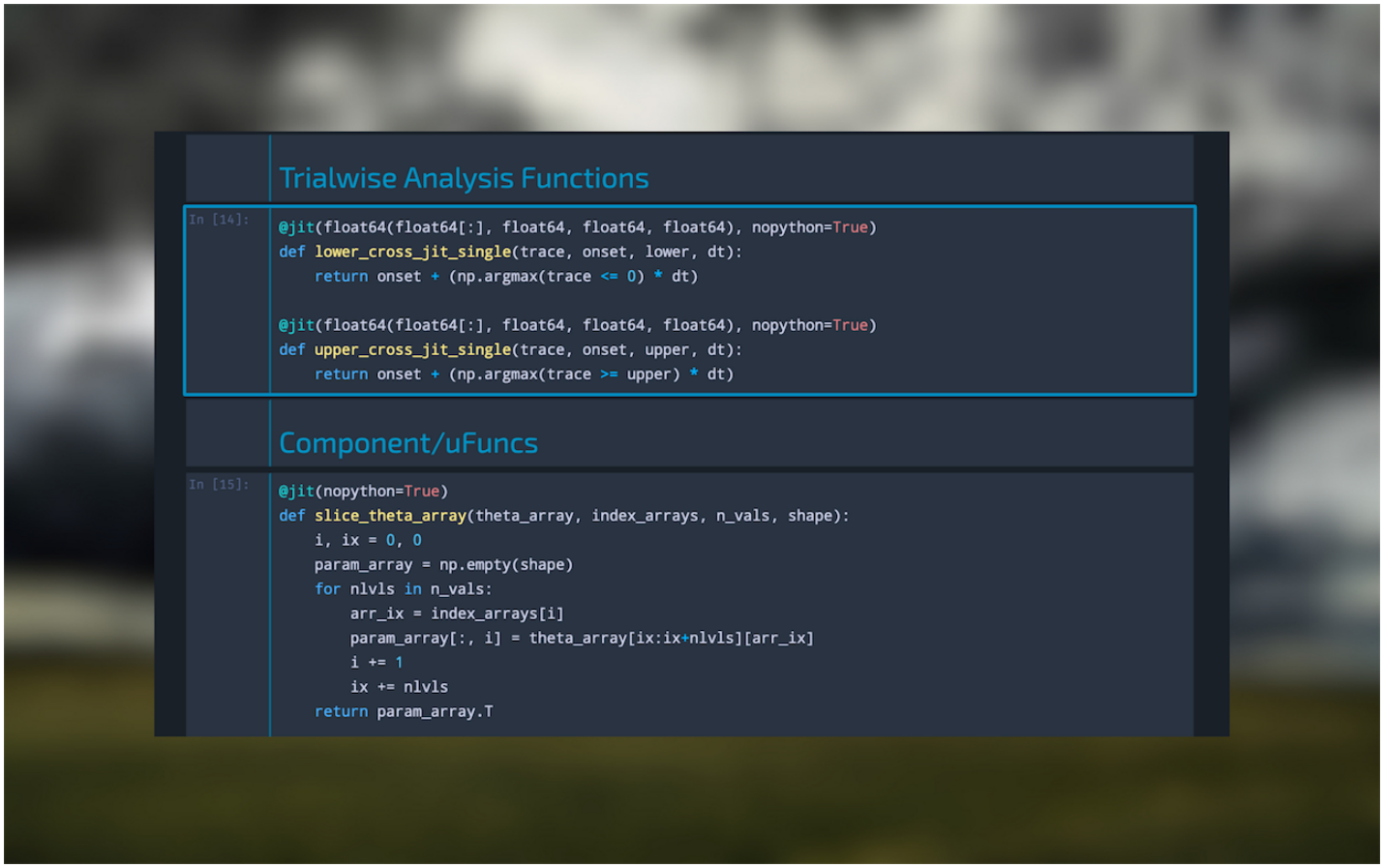
grade3 syntax



onedork syntax



chesterish syntax



Links

- jupyterthemes on PyPI
- jupyterthemes on GitHub

Requirements

- Python 2.7, 3.4, 3.5, 3.6
- Jupyter (Anaconda recommended)
- matplotlib

Install with pip

```
# install jupyterthemes
pip install jupyterthemes

# upgrade to latest version
pip install --upgrade jupyterthemes
```

Known issues

- **refreshing / removing / resetting:** depending on your system, browser, etc., you may need to empty your browser cache after installing a new theme (`-t`) or attempting to restore the default (`-r`) in order for those changes to take effect. (see discussion here). At the very least you'll need to refresh your browser window (usually `cmd+r` or `ctrl+r`).
- **install issue:** if you get an error saying `jt` is not recognized, try this fix.
- **slow render when scrolling:** fix available here
- **for best results:** use notebook>=5.0 (`pip install --upgrade notebook`)

Command Line Usage

```
jt  [-h] [-l] [-t THEME] [-f MONOFONT] [-fs MONOSIZE] [-nf NBFONT]
    [-nfs NBFONTSIZE] [-tf TCFONT] [-tfs TCFONTSIZE] [-dfs DFFONTSIZE]
    [-m MARGINS] [-cursw CURSORWIDTH] [-cursc CURSORCOLOR] [-vim]
    [-cellw CELLWIDTH] [-lineh LINEHEIGHT] [-altp] [-altmd] [-altout]
    [-P] [-T] [-N] [-r] [-dfonts]
```

Description of Command Line options

cl options	arg	default
Usage help	-h	--
List Themes	-l	--
Theme Name to Install	-t	--
Code Font	-f	--
Code Font-Size	-fs	11
Notebook Font	-nf	--
Notebook Font Size	-nfs	13
Text/MD Cell Font	-tf	--
Text/MD Cell Fontsize	-tfs	13
Pandas DF Fontsize	-dfs	9
Output Area Fontsize	-ofs	8.5
Mathjax Fontsize (%)	-mathfs	100
Intro Page Margins	-m	auto
Cell Width	-cellw	980
Line Height	-lineh	170
Cursor Width	-cursw	2
Cursor Color	-cursc	--
Alt Prompt Layout	-altp	--
Alt Markdown BG Color	-altmd	--
Alt Output BG Color	-altout	--
Style Vim NBExt*	-vim	--
Toolbar Visible	-T	--
Name & Logo Visible	-N	--
Reset Default Theme	-r	--
Force Default Fonts	-dfonts	--

Command Line Examples

```
# list available themes
# onedork | grade3 | oceans16 | chesterish | monokai | solarizedl | solarizedd
jt -l

# select theme...
jt -t chesterish

# restore default theme
# NOTE: Need to delete browser cache after running jt -r
# If this doesn't work, try starting a new notebook session.
jt -r

# toggle toolbar ON and notebook name ON
jt -t grade3 -T -N

# set code font to 'Roboto Mono' 12pt
# (see monospace font table below)
jt -t onedork -f roboto -fs 12

# set code font to Fira Mono, 11.5pt
# 3digit font-sizes get converted into float (115-->11.5)
# 2digit font-sizes > 25 get converted into float (85-->8.5)
jt -t solarizedd -f fira -fs 115

# set font/font-size of markdown (text cells) and notebook (interface)
# see sans-serif & serif font tables below
jt -t oceans16 -tf merriserif -tfs 10 -nf ptsans -nfs 13

# adjust cell width (% screen width) and line height
jt -t chesterish -cellw 90% -lineh 170

# or set the cell width in pixels by leaving off the '%' sign
jt -t solarizedl -cellw 860

# fix the container-margins on the intro page (defaults to 'auto')
jt -t monokai -m 200

# adjust cursor width (in px) and make cursor red
# options: b (blue), o (orange), r (red), p (purple), g (green), x (font color)
jt -t oceans16 -cursc r -cursw 5

# choose alternate prompt layout (narrower/no numbers)
jt -t grade3 -altp

# my two go-to styles
# dark
jt -t onedork -fs 95 -altp -tfs 11 -nfs 115 -cellw 88% -T
# light
jt -t grade3 -fs 95 -altp -tfs 11 -nfs 115 -cellw 88% -T
```

Set Plotting Style (from within notebook)

`jtplot.style()` makes changes to matplotlib's rcParams dictionary so that figure aesthetics match those of a chosen jupyterthemes style. In addition to setting the color scheme, `jtplot.style()` allows you to control various figure properties (spines, grid, font scale, etc.) as well as the plotting "context" (borrowed from seaborn).

Note, these commands do not need to be re-run every time you generate a new plot, just once at the beginning of your notebook or whenever style changes are desired after that.

Pro-tip: Include the following two lines in `~/.ipython/profile_default/startup/startup.ipy` file to set plotting style automatically whenever you start a notebook:

```
# import jtplot submodule from jupyterthemes
from jupyterthemes import jtplot

# currently installed theme will be used to
# set plot style if no arguments provided
jtplot.style()
```

jtplot.style() Examples

```
# import jtplot module in notebook
from jupyterthemes import jtplot

# choose which theme to inherit plotting style from
# onedork | grade3 | oceans16 | chesterish | monokai | solarizedl | solarizedd
jtplot.style(theme='onedork')

# set "context" (paper, notebook, talk, poster)
# scale font-size of ticklabels, legend, etc.
# remove spines from x and y axes and make grid dashed
jtplot.style(context='talk', fscale=1.4, spines=False, gridlines='--')

# turn on X- and Y-axis tick marks (default=False)
# turn off the axis grid lines (default=True)
# and set the default figure size
jtplot.style(ticks=True, grid=False, figsize=(6, 4.5))

# reset default matplotlib rcParams
jtplot.reset()
```

Monospace Fonts (code cells)

-f arg	Monospace Font
anka	Anka/Coder
anonymous	Anonymous Pro
aurulent	Aurulent Sans Mono
bitstream	Bitstream Vera Sans Mono
bpmono	BPmono
code	Code New Roman
consolamono	Consolamono
cousine	Cousine
dejavu	DejaVu Sans Mono
droidmono	Droid Sans Mono
fira	Fira Mono
firacode	Fira Code
generic	Generic Mono
hack	Hack
hasklig	Hasklig

-f arg	Monospace Font
inconsolata	Inconsolata-g
inputmono	Input Mono
liberation	Liberation Mono
meslo	Meslo
office	Office Code Pro
oxygen	Oxygen Mono
roboto	Roboto Mono
saxmono	saxMono
source	Source Code Pro
sourcemed	Source Code Pro Medium
ptmono	PT Mono
ubuntu	Ubuntu Mono

Sans-Serif Fonts

-nf/-tf arg	Sans-Serif Font
opensans	Open Sans
droidsans	Droid Sans
exosans	Exo_2
latosans	Lato
ptsans	PT Sans
robotosans	Roboto
sourcesans	Source Sans Pro

Serif Fonts

-nf/-tf arg	Serif Font
loraserif	Lora
ptserif	PT Serif
georgiaserif	Georgia
cardoserif	Cardo
crimsonserif	Crimson Text
ebserif	EB Garamond
merriserif	Merriweather
neutonserif	Neuton
goudyserif	Sorts Mill Goudy