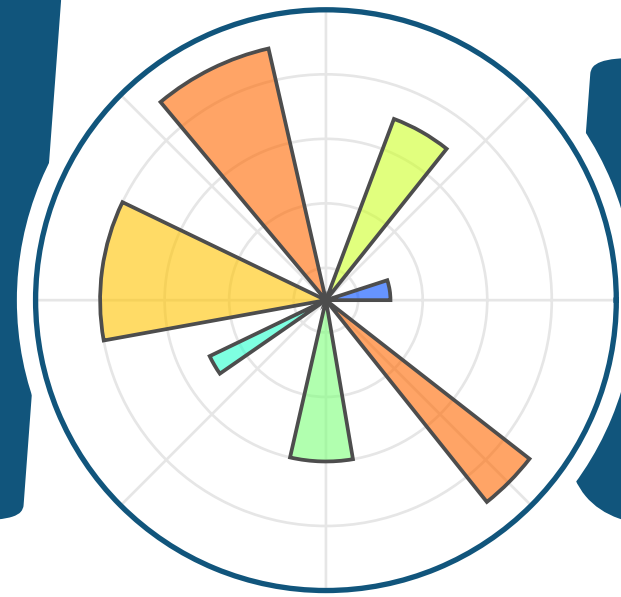
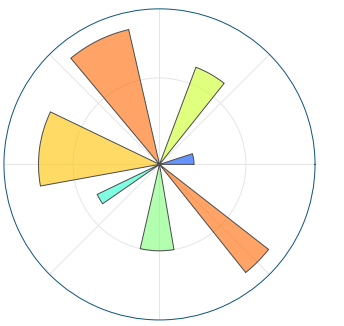


matplotlib



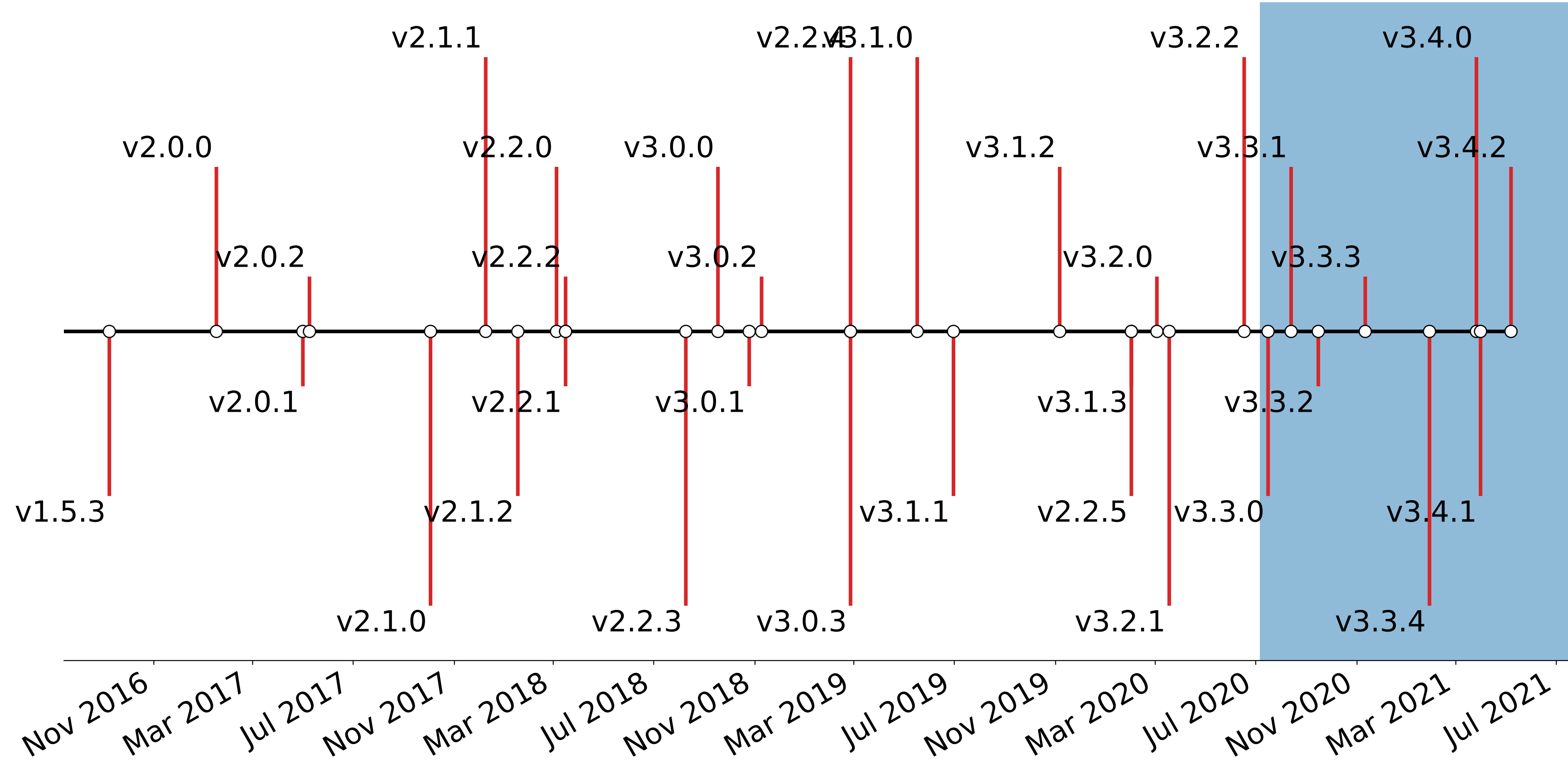
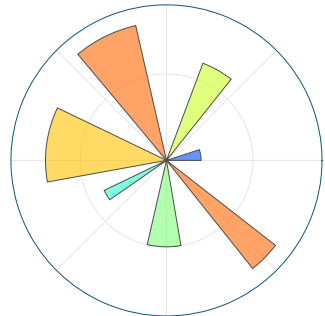
SciPy 2021
@matplotlib

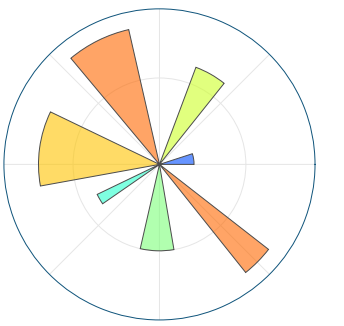


General News

- **Chan Zuckerberg Institute grant**
— **Essential Open Source Software for Science**
Thomas Caswell, Hannah Aizenman,
Elliott Sales de Andrade
- **Google Summer of Code**
Aitik Gupta — Revisiting Text/Font Handling
- **Discourse**
<https://discourse.matplotlib.org/>
- **Third-party packages**
PyPI classifier: Framework :: Matplotlib
<https://matplotlib.org/mpl-third-party/>

Release History





3.4 Feature: SubFigures

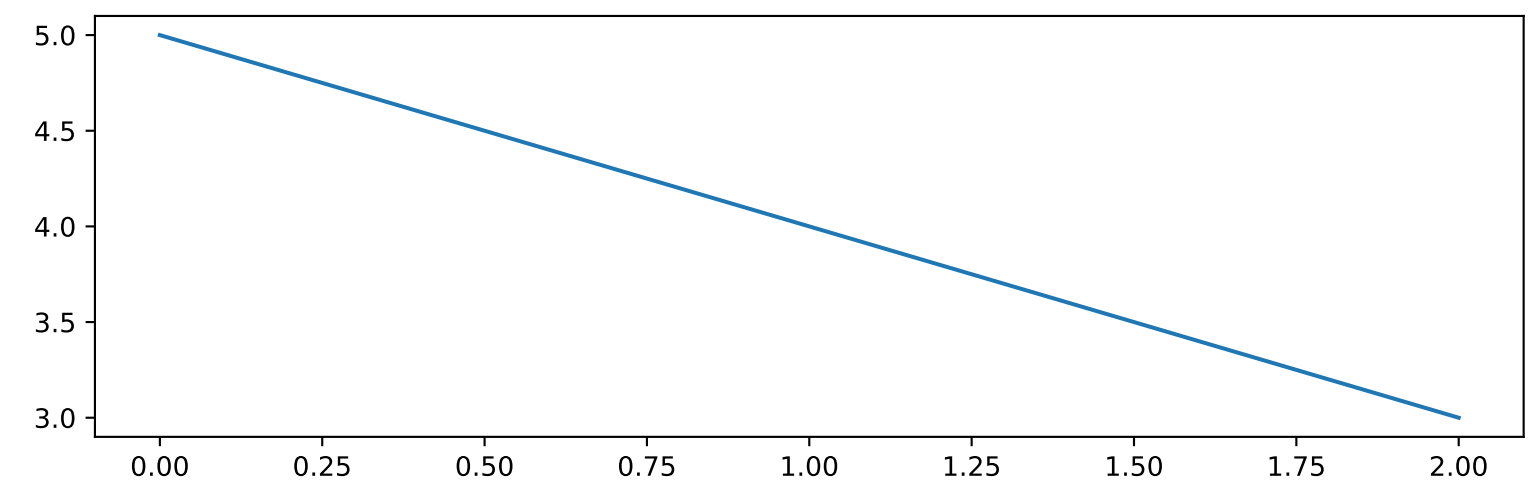
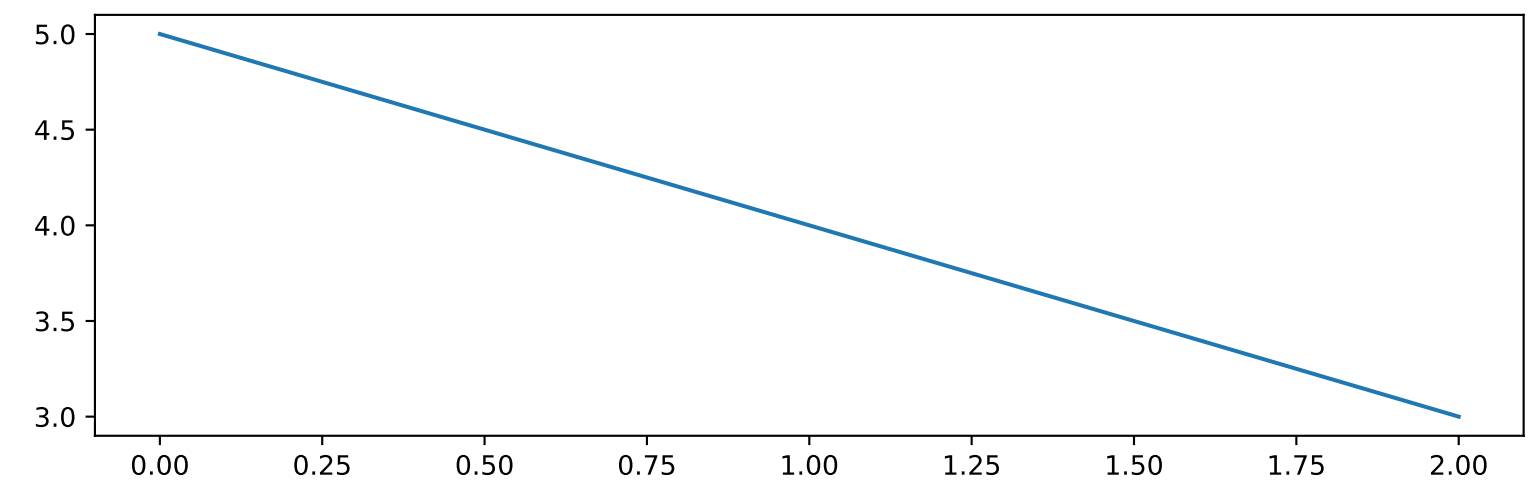
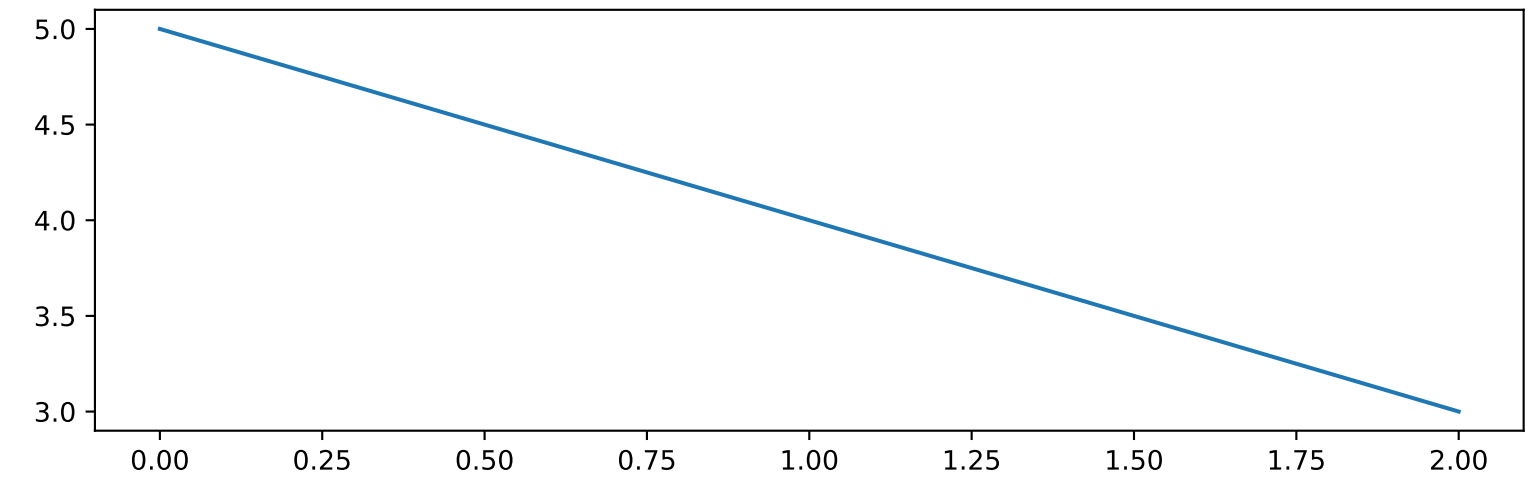
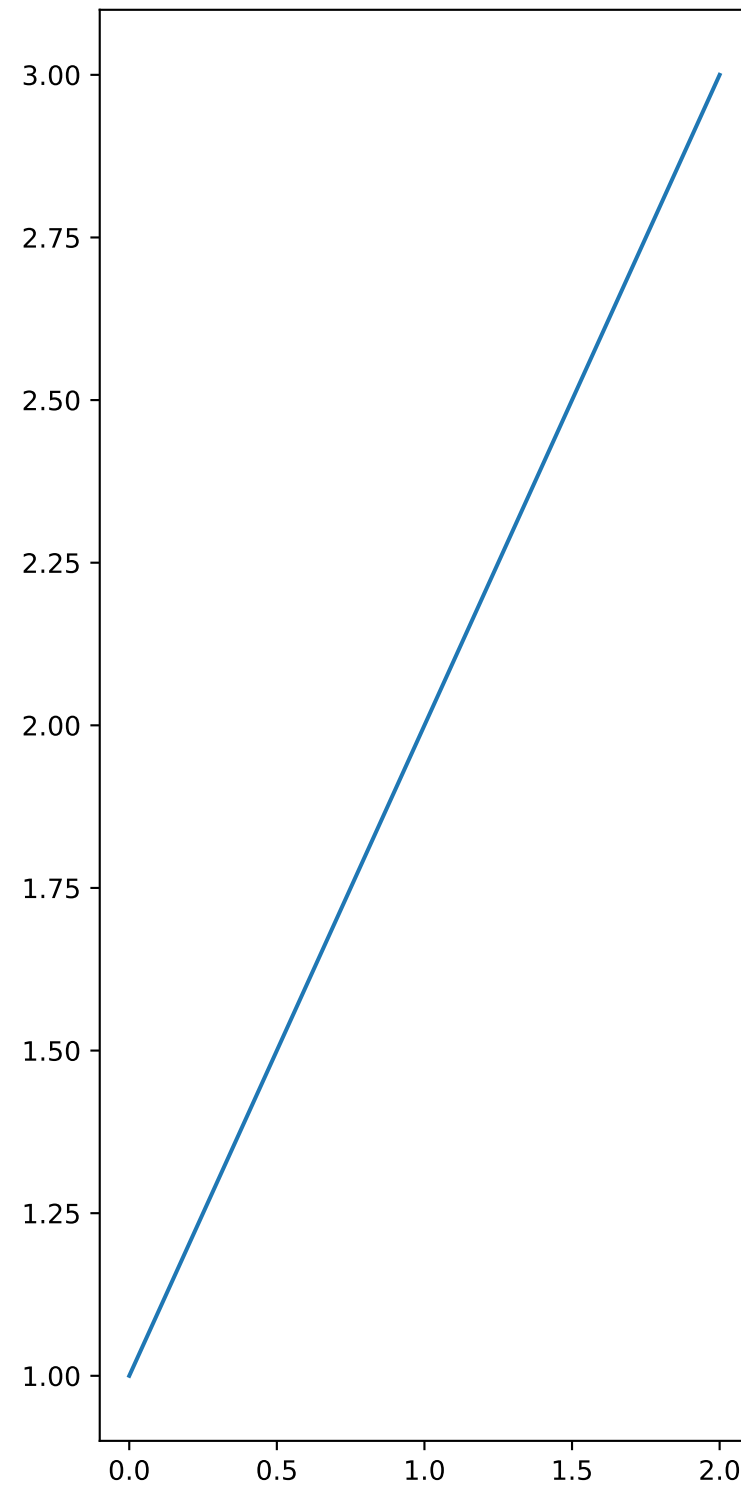
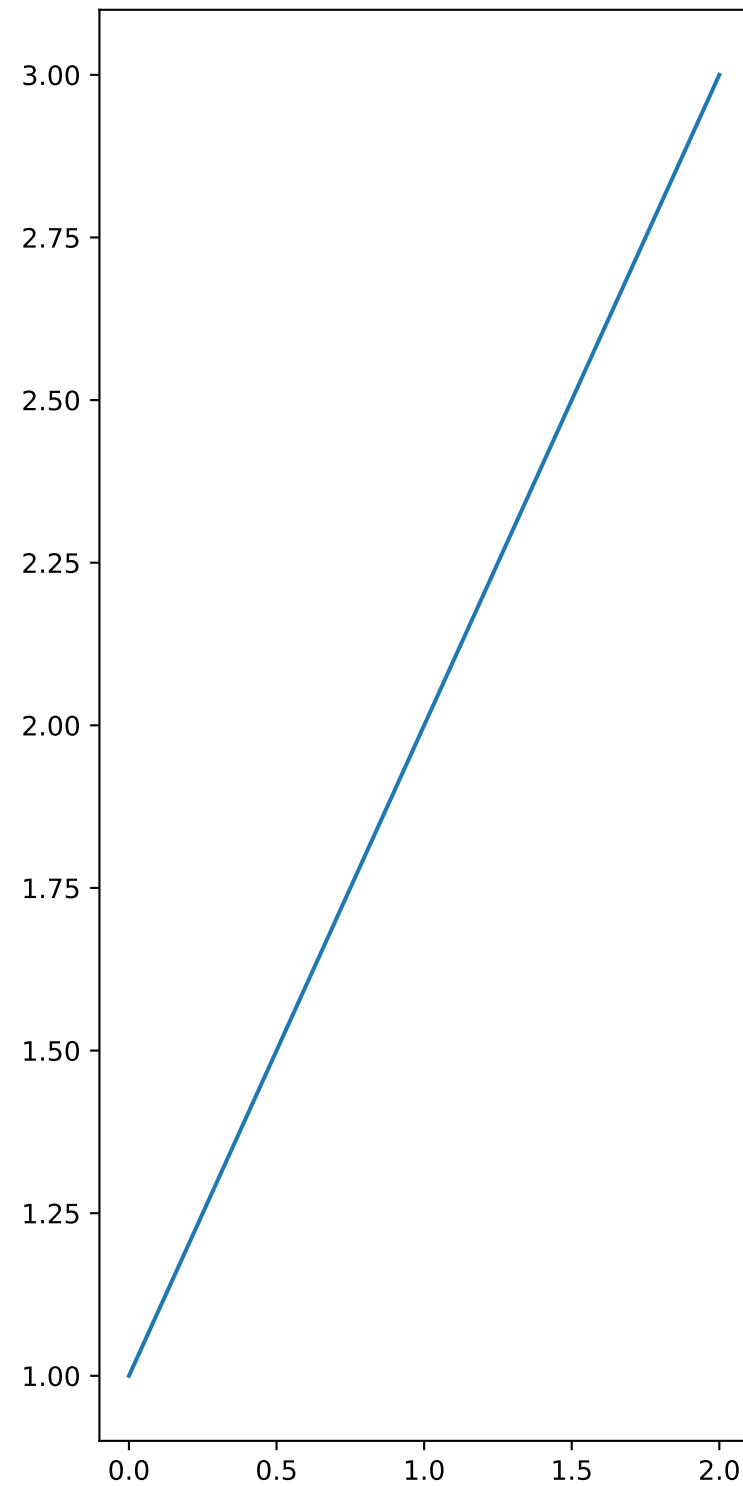
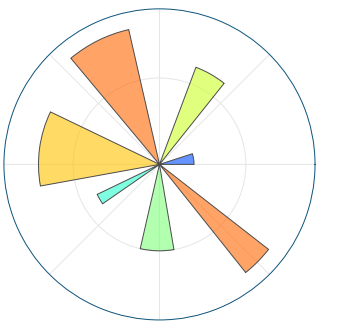
Nestable subdivisions of your figure that act like a figure

```
fig = plt.figure()
subfigs = fig.subfigures(1, 2)

axsLeft = subfigs[0].subplots(1, 2)
for ax in axsLeft:
    ax.plot([1, 2, 3])

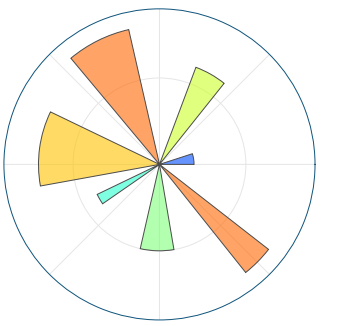
axsRight = subfigs[1].subplots(3, 1)
for ax in axsRight:
    ax.plot([5, 4, 3])
```

3.4 Feature: SubFigures



PR by @jklymak

3.4 Feature: subplot_mosaic shortcut

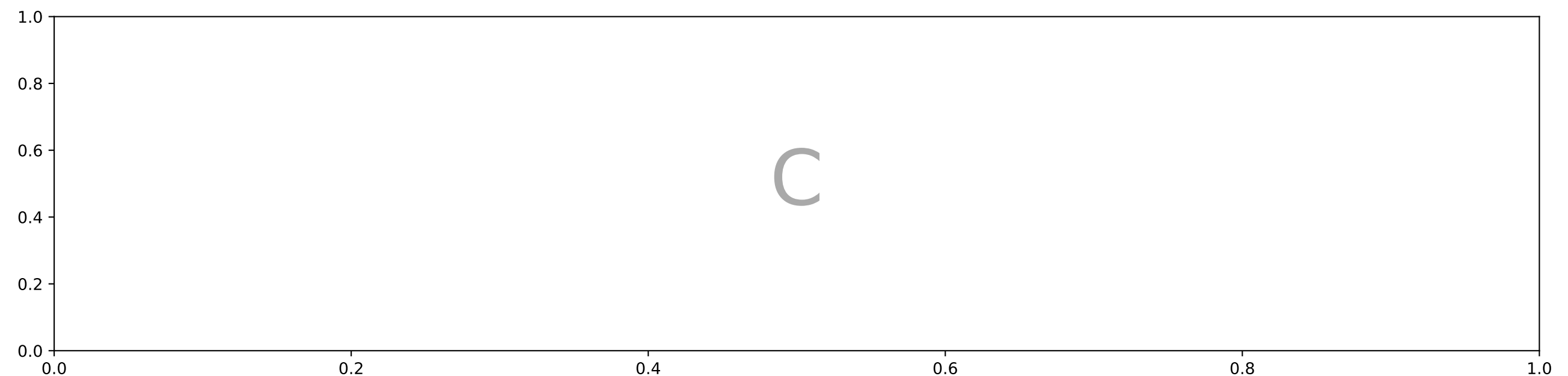
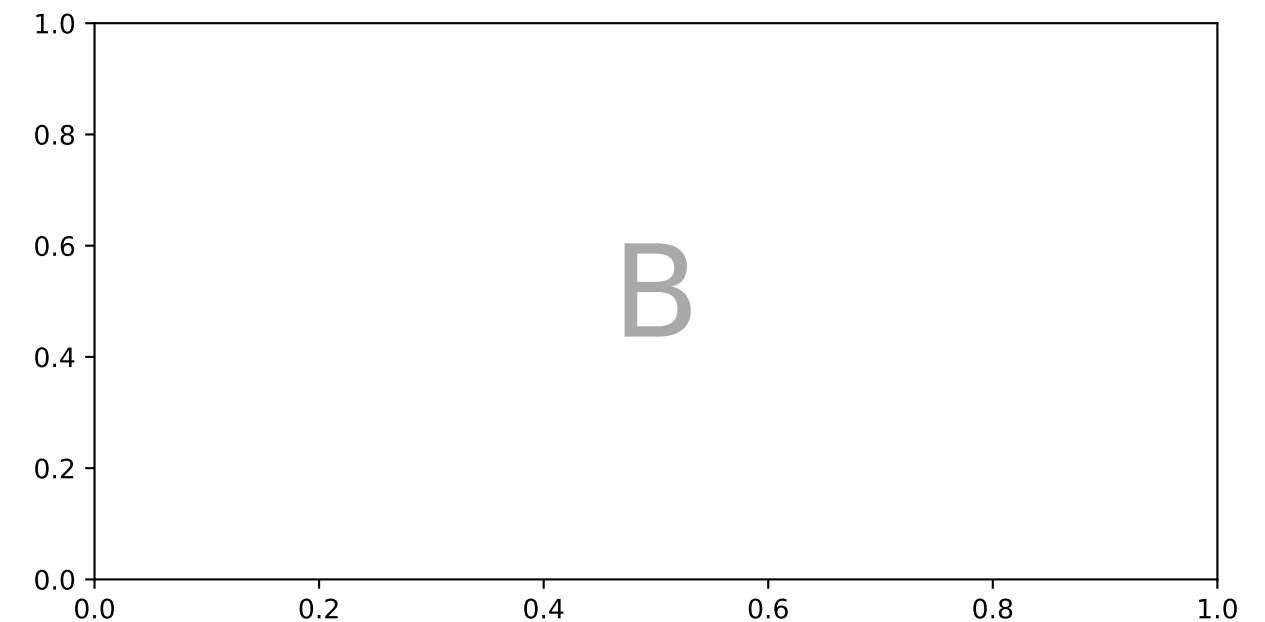
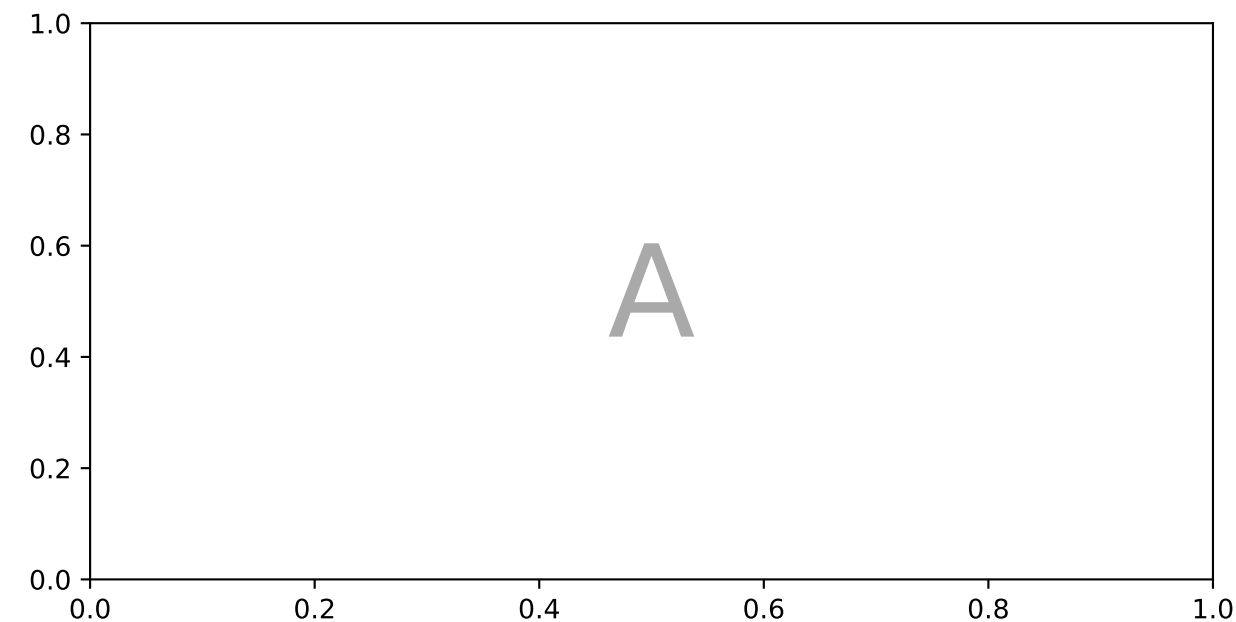


```
plt.figure().subplot_mosaic(
```

```
    'AB
```

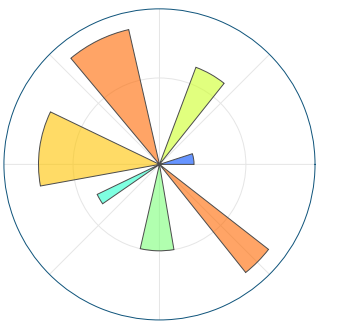
```
    CC
```

```
    ' ' ' ')
```

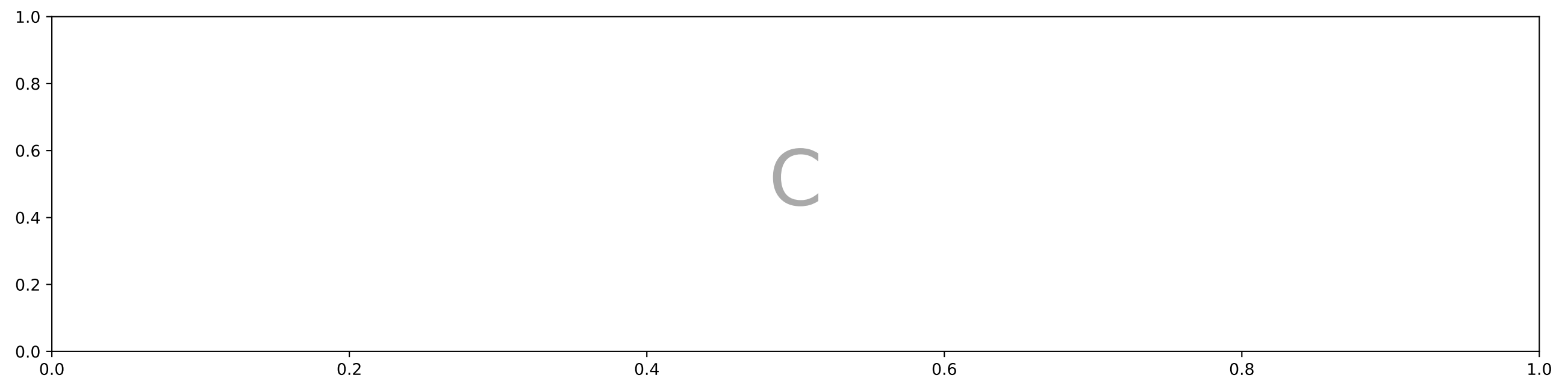
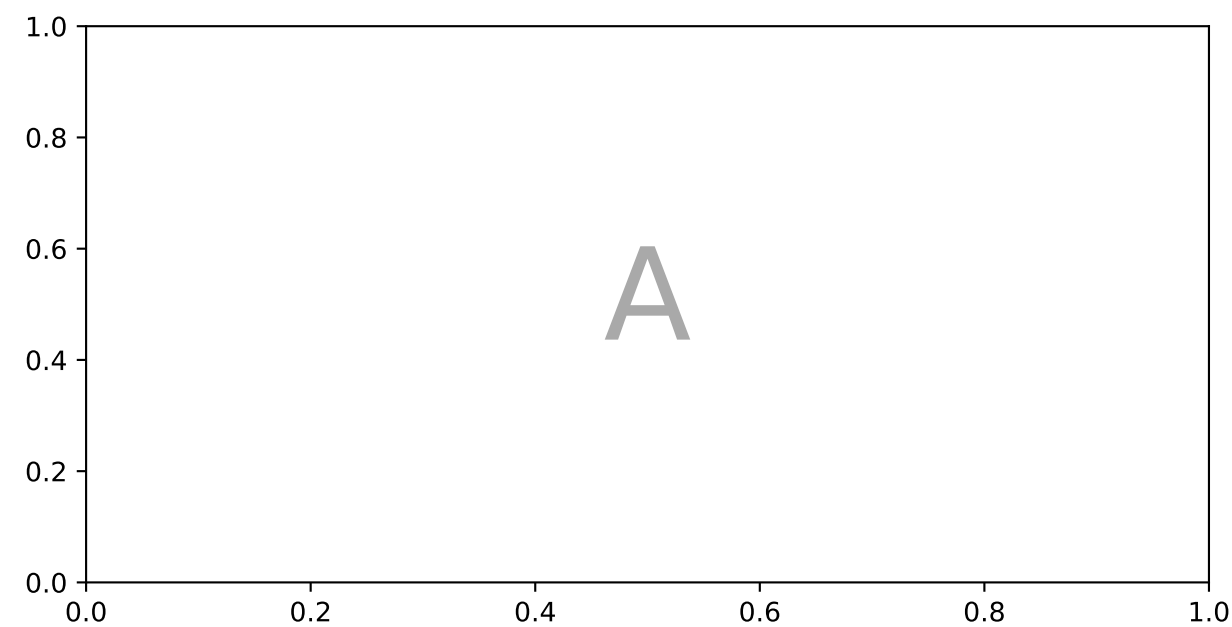


PR by @timhoffm

3.4 Feature: subplot_mosaic shortcut

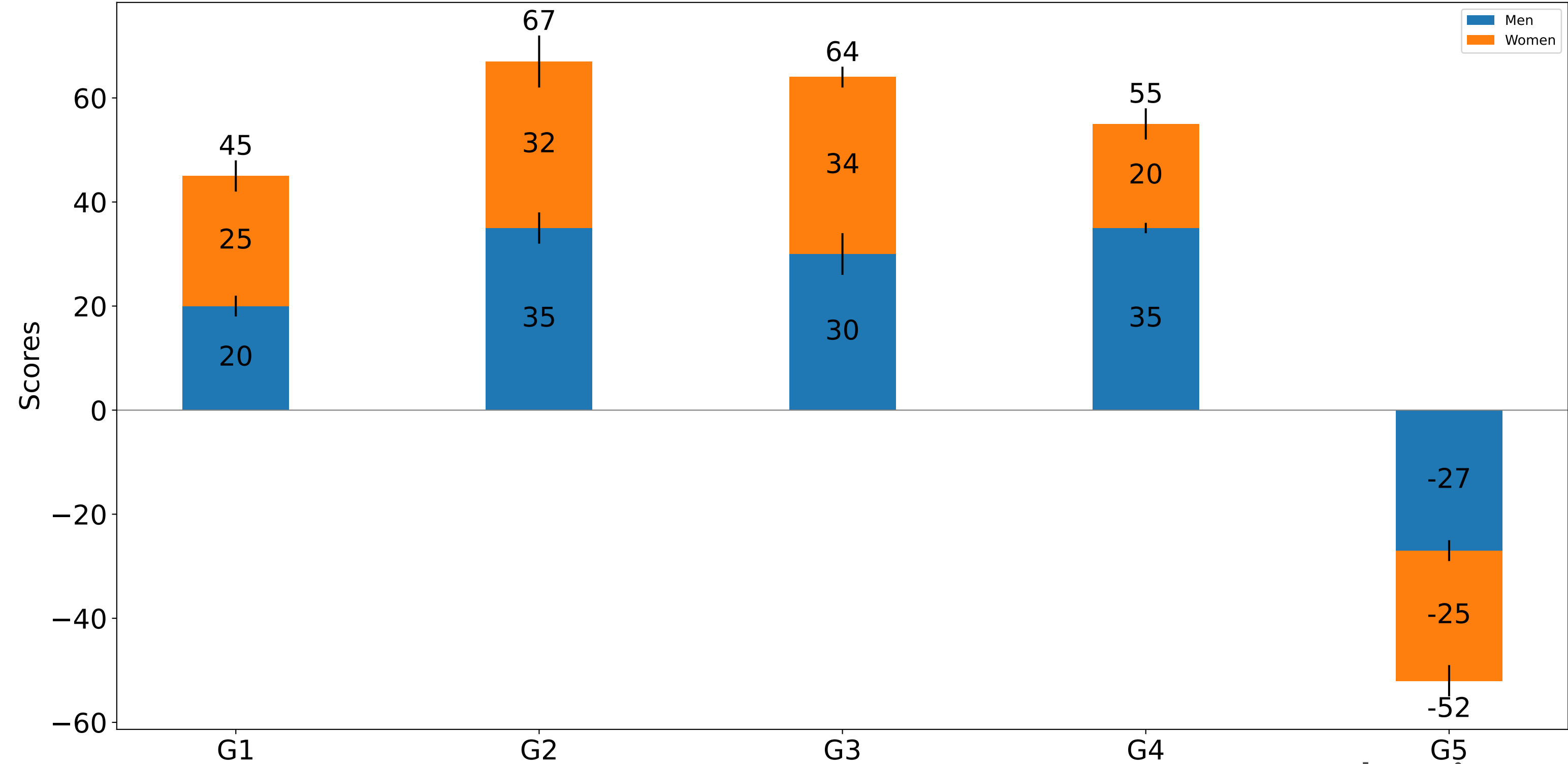
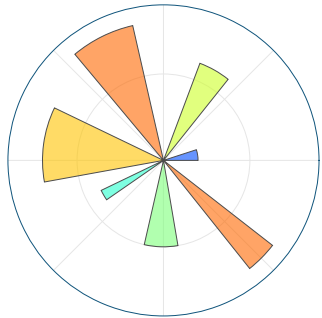


```
plt.figure().subplot_mosaic('AB;CC')
```

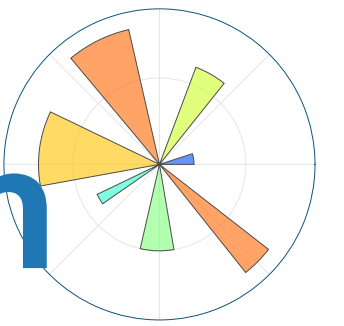


PR by @timhoffm

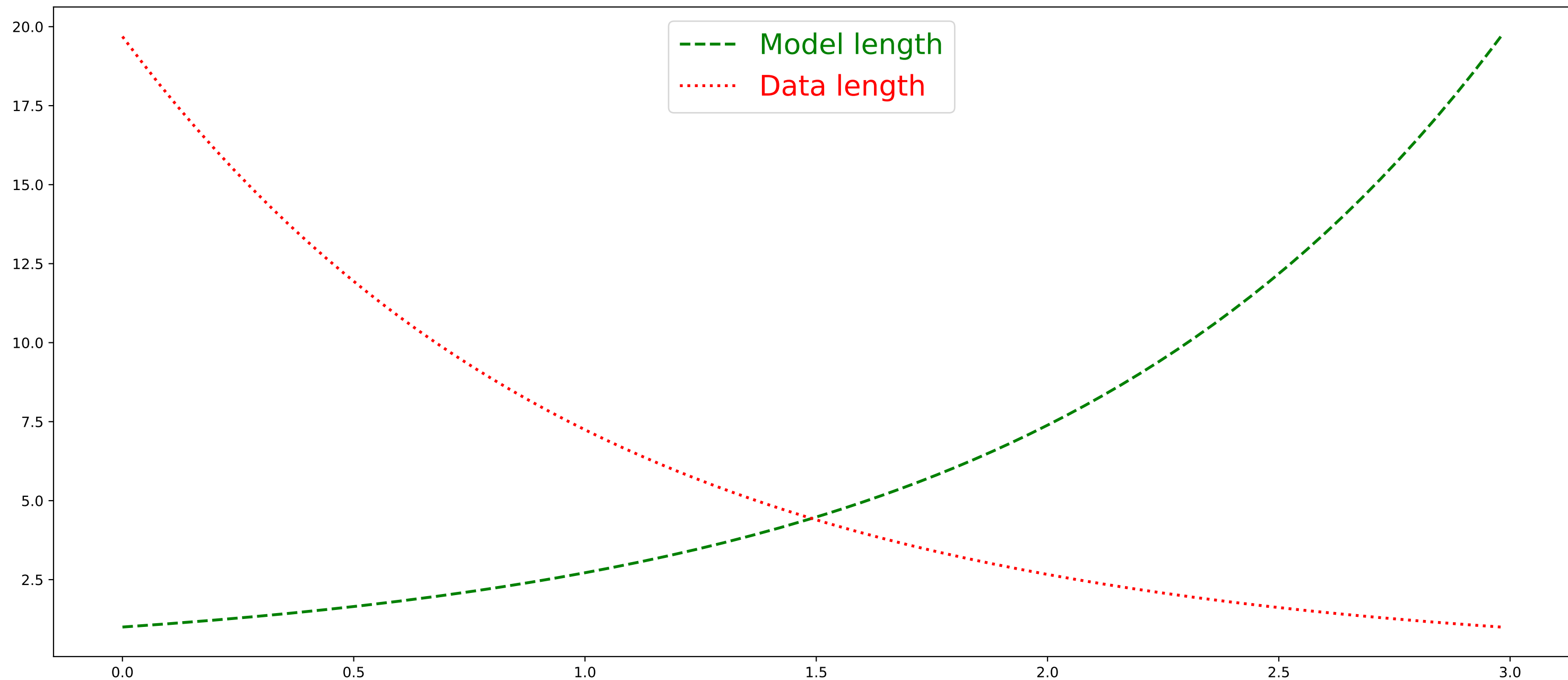
3.4 Feature: bar_label



3.5 Feature: legend label color rcParam

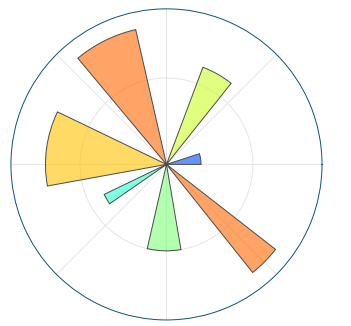


```
plt.rcParams['legend.labelcolor'] = 'linecolor'
```



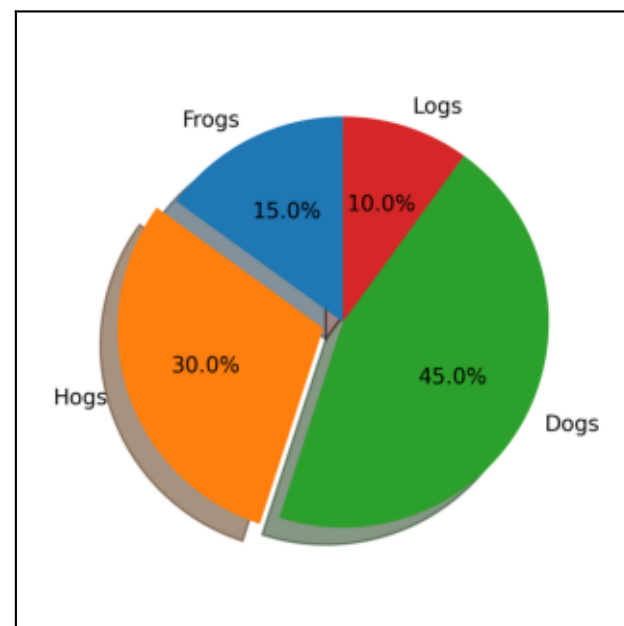
PR by @Carloscerq

3.5 Feature: Color simulations

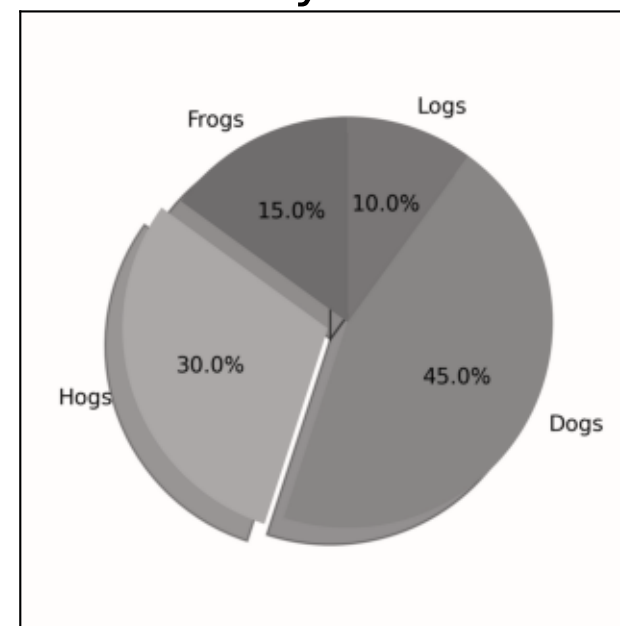


Simulate various color vision deficiencies

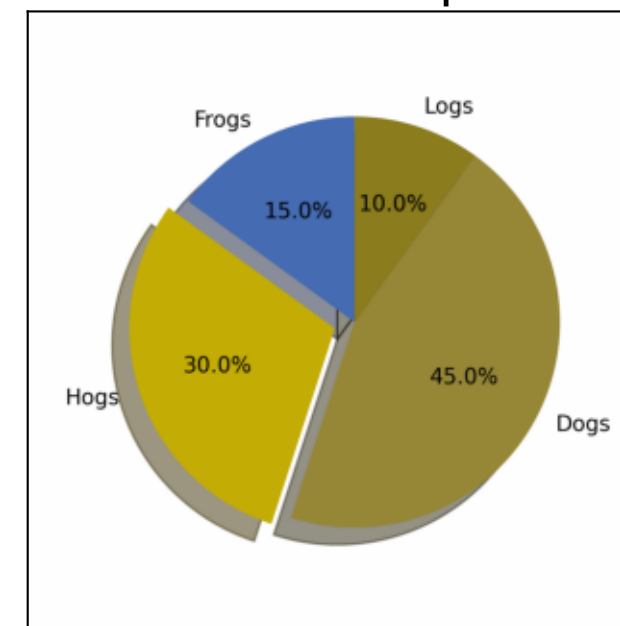
Unaltered



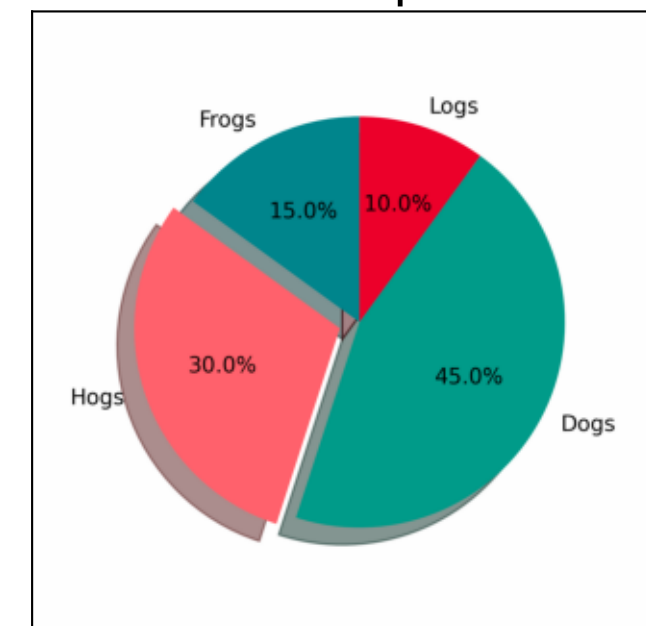
Greyscale



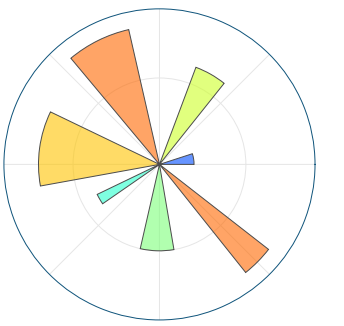
Deuteranopia



Tritanopia



3.5 Miscellaneous Features

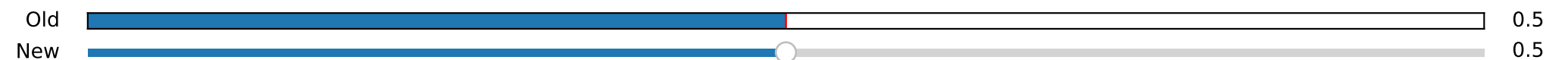


New backends:

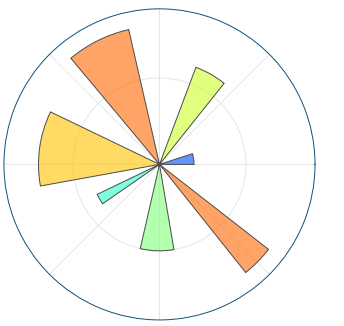
- Qt6/PySide6
- GTK4

Improved widgets:

- Nicer Slider widget
- Draggable *Selector widgets
- Point removal in PolygonSelector



Documentation



3.4 What's New?

https://matplotlib.org/3.4.0/users/whats_new.html

Upcoming 3.5 What's New?

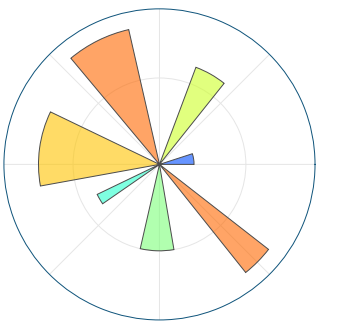
https://matplotlib.org/devdocs/users/next_whats_new.html

Once tagged, will be at:

https://matplotlib.org/3.5.0/users/whats_new.html

Switch to pydata-sphinx-theme

<https://pydata-sphinx-theme.readthedocs.io/en/latest/>



Future Plans

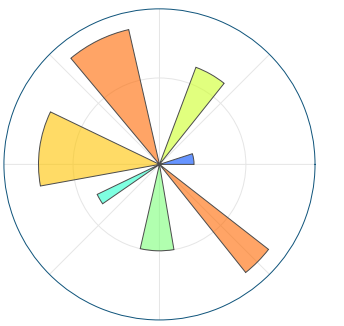
Next feature release: 3.5

- **September 2021**
- **Dropping support for NumPy 1.16**
- **Adding PyPy wheels for all platforms**

Check out our blog!

<https://matplotlib.org/matplotlibblog/>

Thank You!



This entire presentation was made in Matplotlib:
<https://github.com/QuLogic/scipy2021-mpl-update>