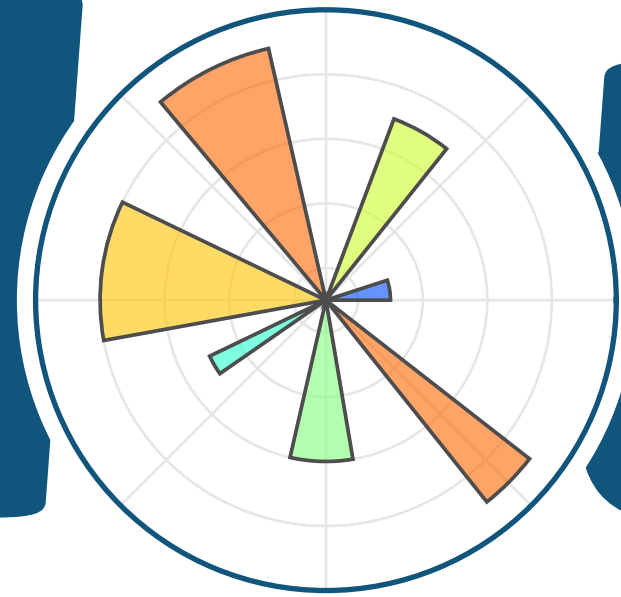
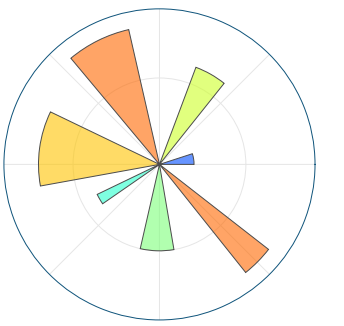


matplotlib



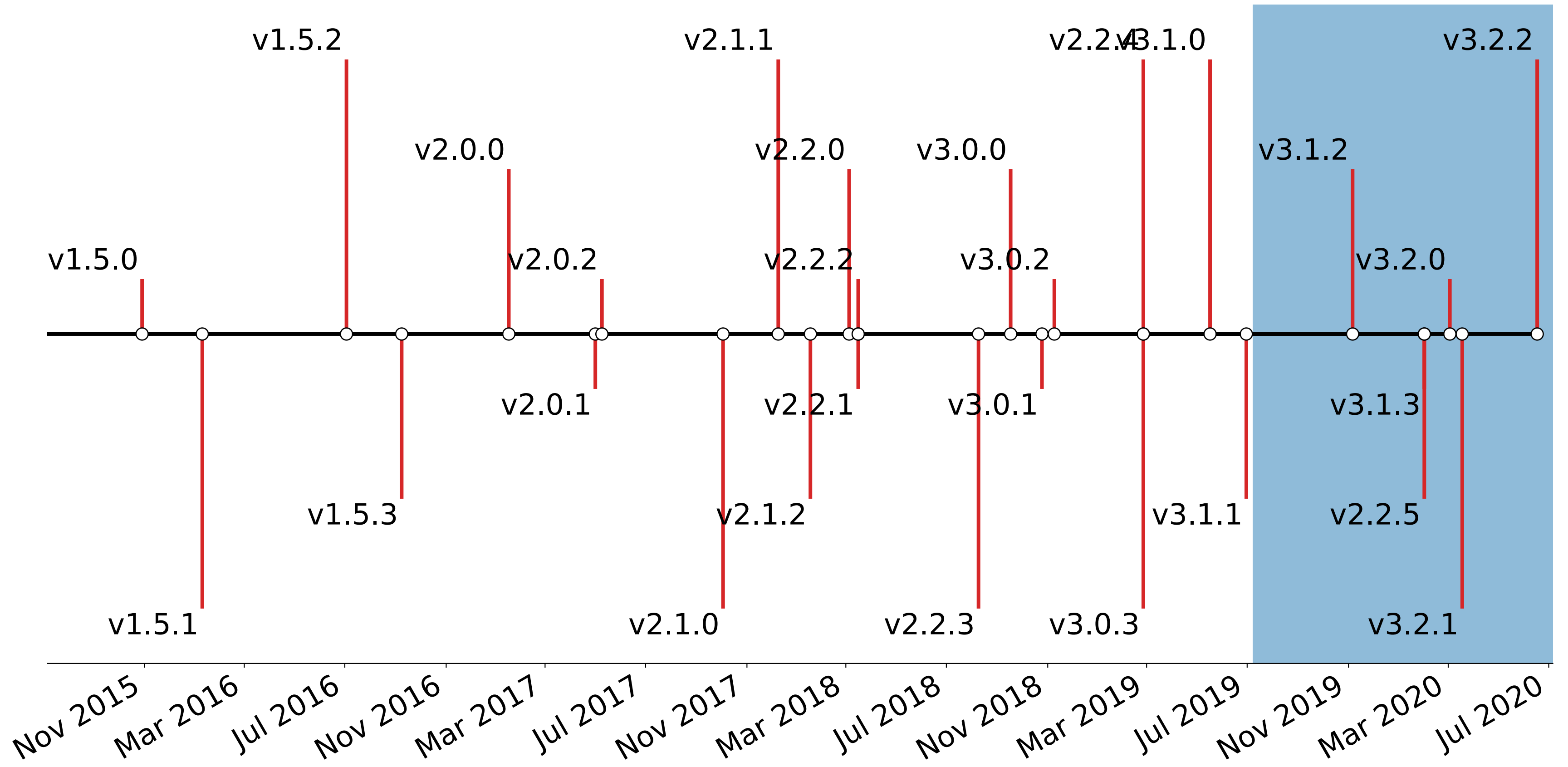
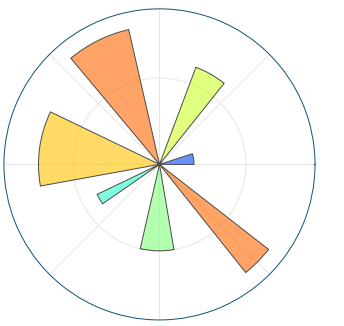
SciPy 2020
@matplotlib



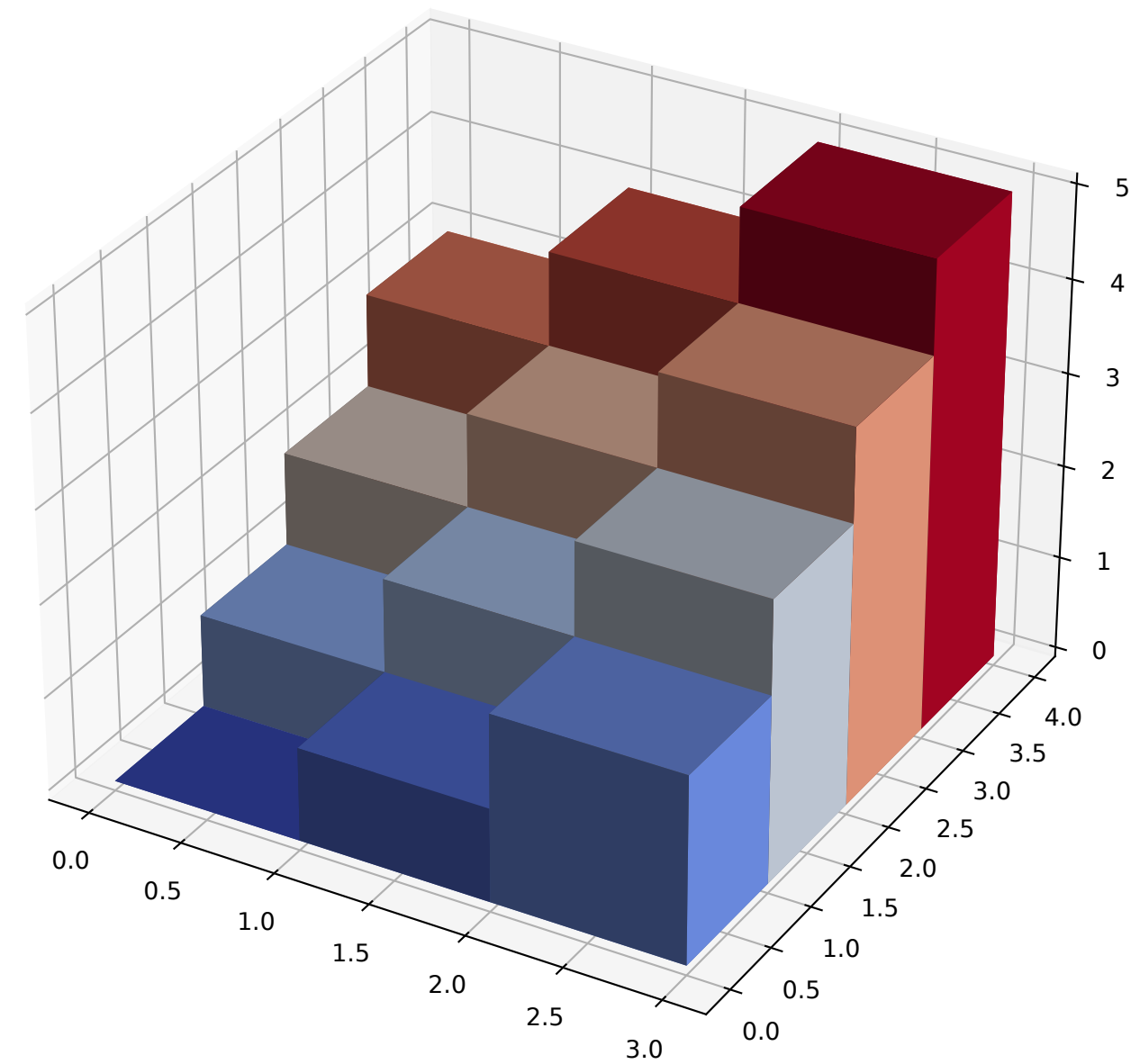
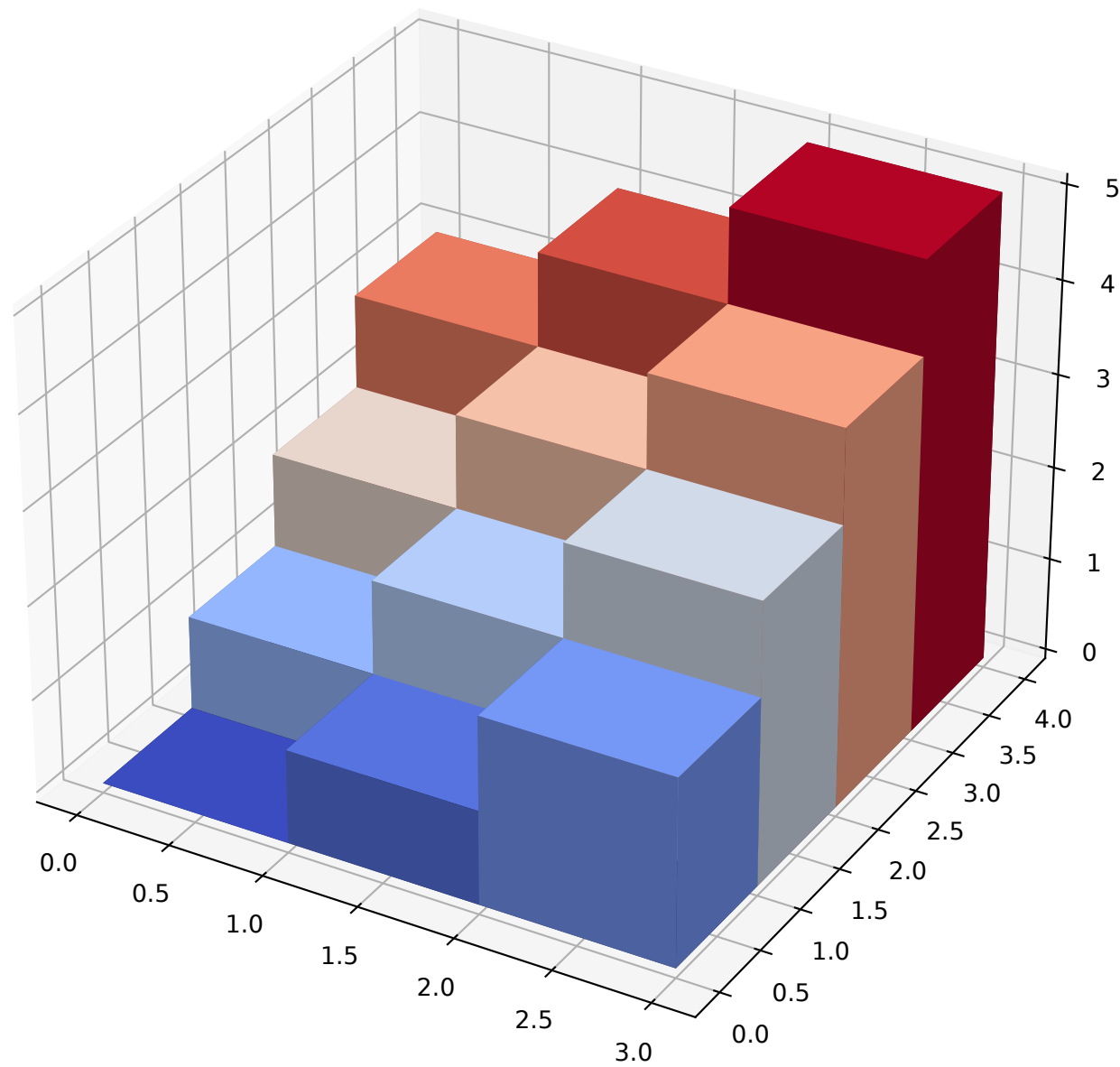
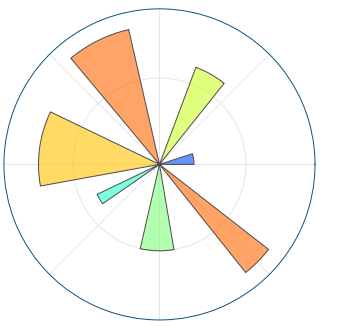
General News

- **Chan Zuckerberg Institute grant**
— **Essential Open Source Software for Science**
Thomas Caswell, Hannah Aizenman,
Elliott Sales de Andrade
- **Google Summer of Code**
Sidharth Bansal — test baseline images relocation
- **Discourse**
<https://discourse.matplotlib.org/>
- **PyPI classifier**
Framework :: Matplotlib

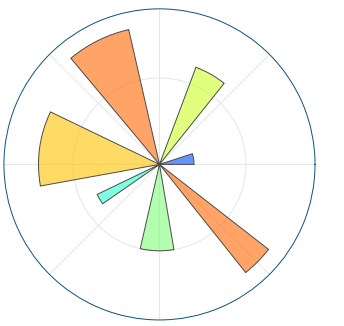
Release History



3.2 Feature: bar3d light source



3.3 Feature: simplified tick formatters

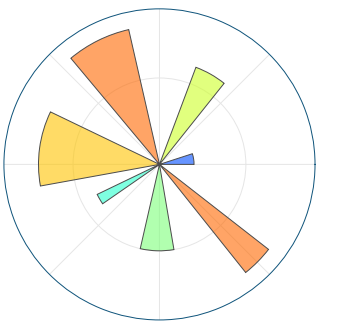


```
ax.xaxis.set_major_formatter(  
    StrMethodFormatter('{x} km')  
⇒ ax.xaxis.set_major_formatter('{x} km')
```

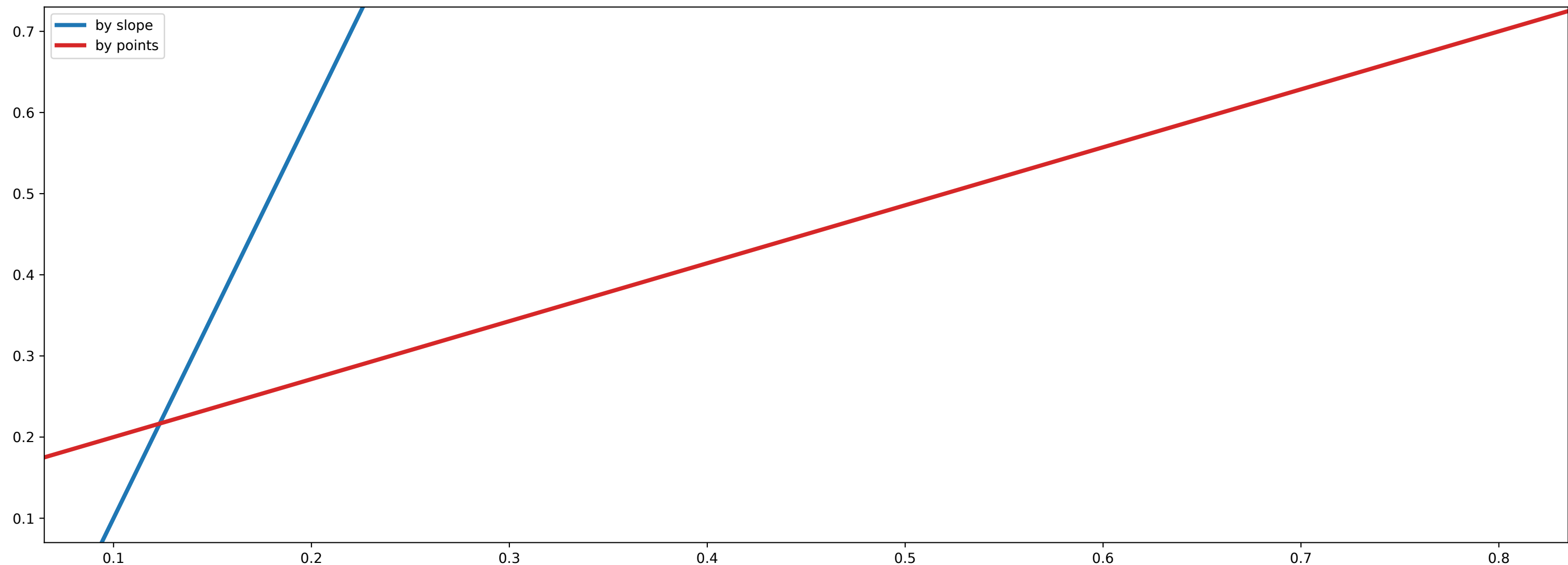
```
def fmt(x, pos):  
    return f'{x} km'
```

```
ax.xaxis.set_major_formatter(FuncFormatter(fmt))  
⇒ ax.xaxis.set_major_formatter(fmt)
```

3.3 Feature: axline for infinite lines

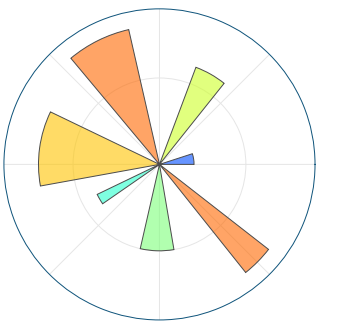


```
fig, ax = plt.subplots()  
ax.axline((0.1, 0.1), slope=5, color='C0')  
ax.axline((0.1, 0.2), (0.8, 0.7), color='C3')
```



PR by @QuLogic, @dstansby, @anntzer, @timhoffm

3.3 Feature: subplot_mosaic



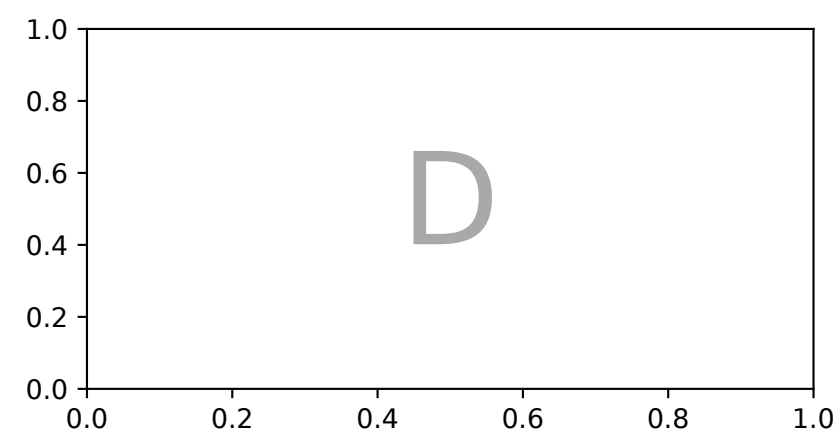
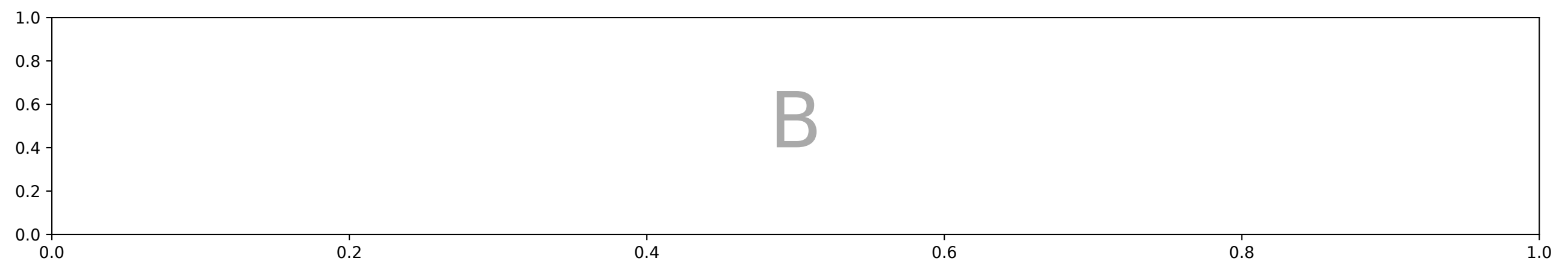
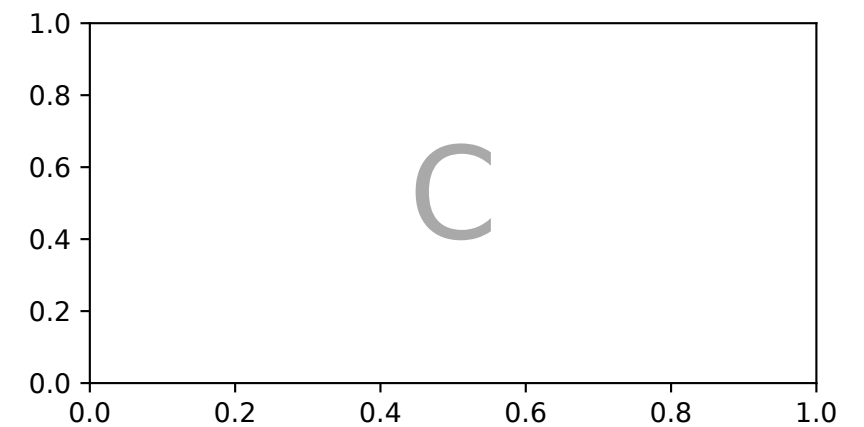
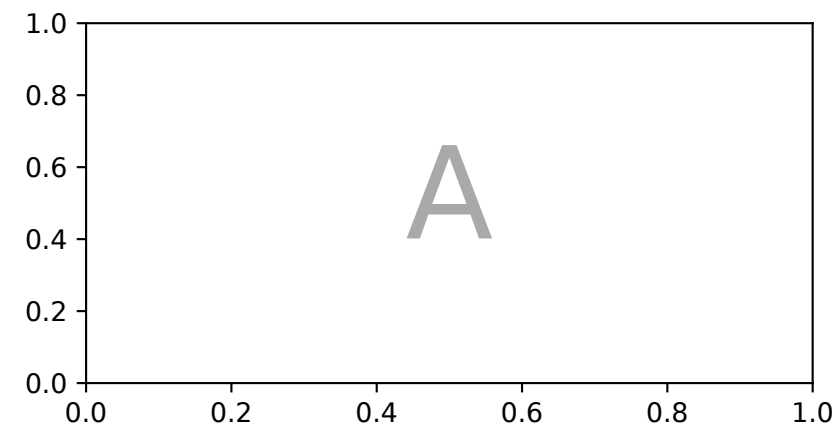
```
plt.figure().subplot_mosaic(
```

```
    'A.C
```

```
    BBB
```

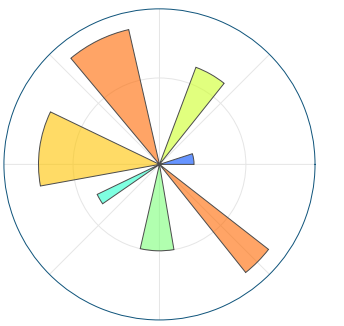
```
    .D.
```

```
    ' ' ' ' )
```

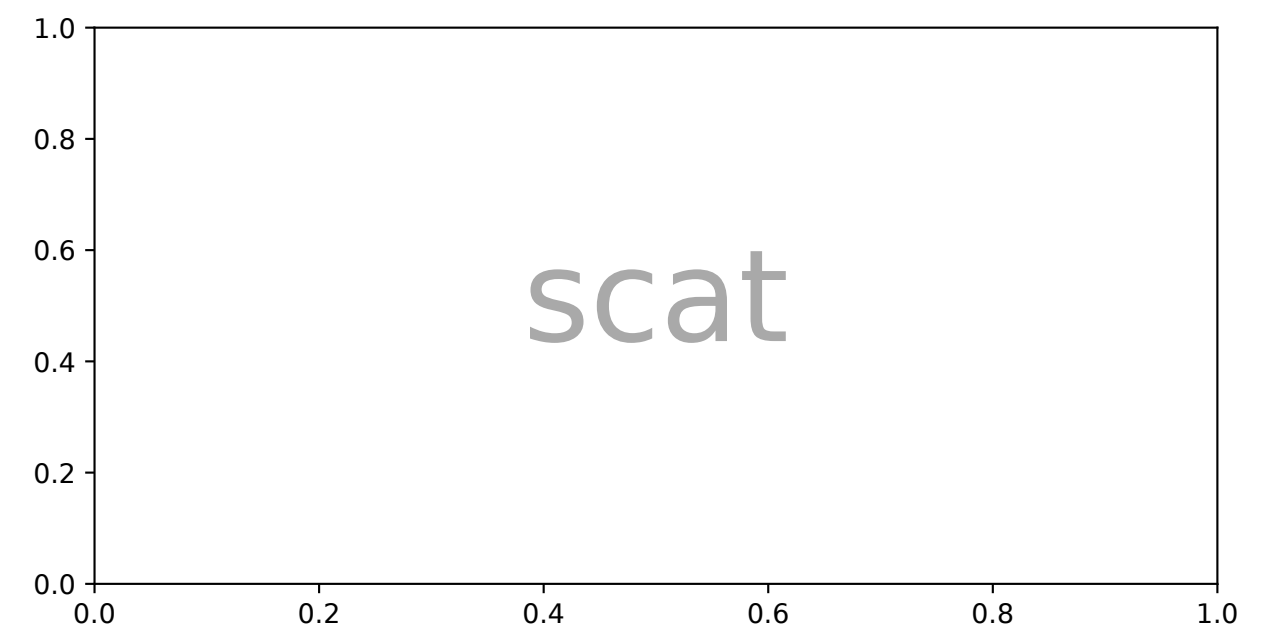


PR by @tacaswell

3.3 Feature: subplot_mosaic

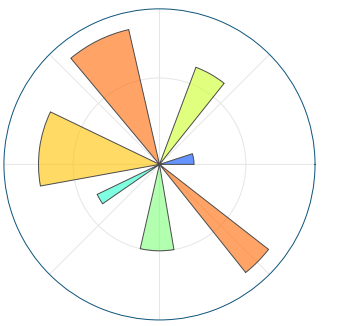


```
plt.figure().subplot_mosaic([  
    ['.', 'histx'],  
    ['histy', 'scat'],  
])
```

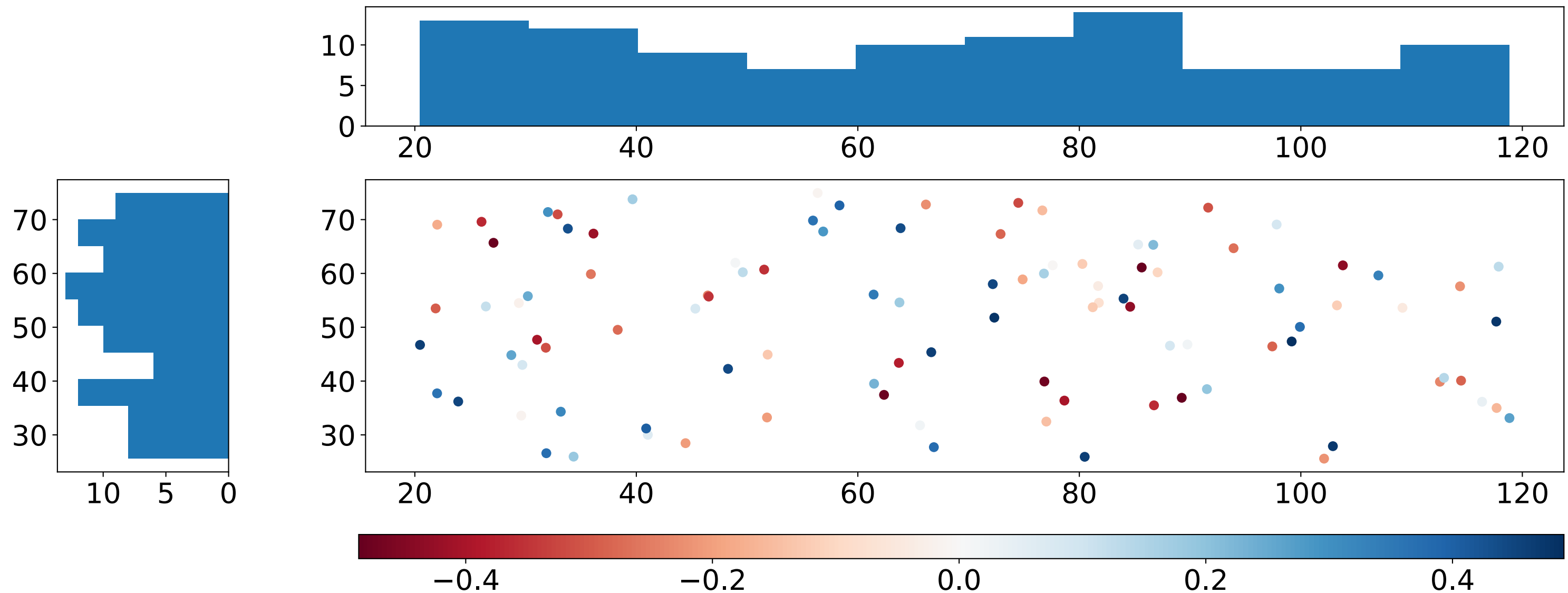


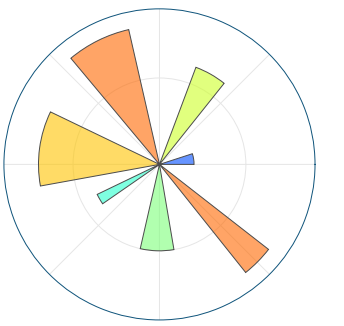
PR by @tacaswell

3.3 Feature: post-hoc Axes sharing



```
axd['histx'].sharex(axd['scat'])  
axd['histy'].sharey(axd['scat'])
```





Documentation

Large and ongoing documentation rewrite

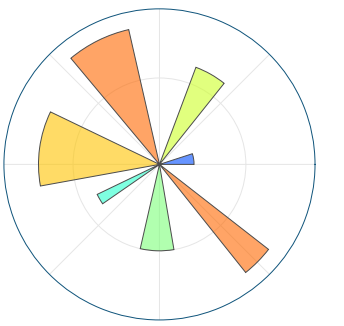
- Refreshed homepage
- 323 Pull Requests in 3.3 alone

3.3 What's New?

https://matplotlib.org/3.3.0/users/whats_new.html

Cheatsheets! By @rougier

<https://github.com/matplotlib/cheatsheets/>



Future Plans

Next feature release: 3.4

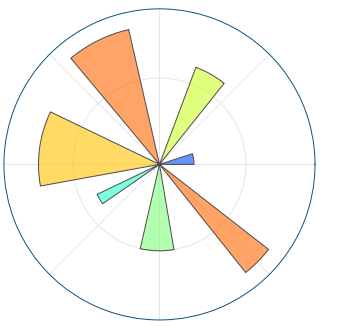
- **September 2020**
- **Dropping support for Python 3.6 & NumPy 1.15**

Google Season of Docs 2020

Check out our blog!

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

Thank You!



This entire presentation was made in Matplotlib:
<https://github.com/QuLogic/scipy2020-mpl-update>