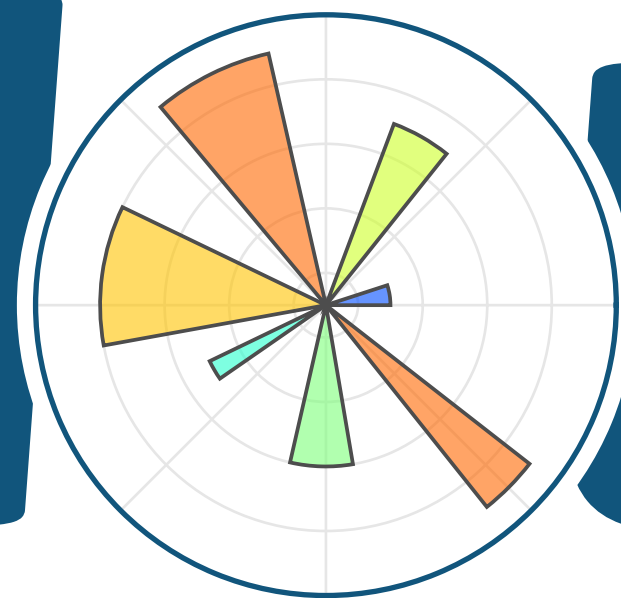
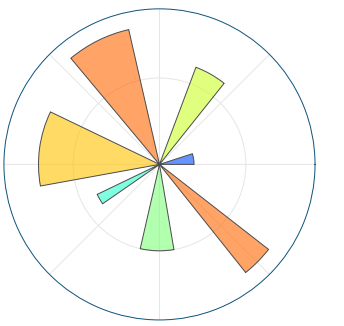


# matplotlib



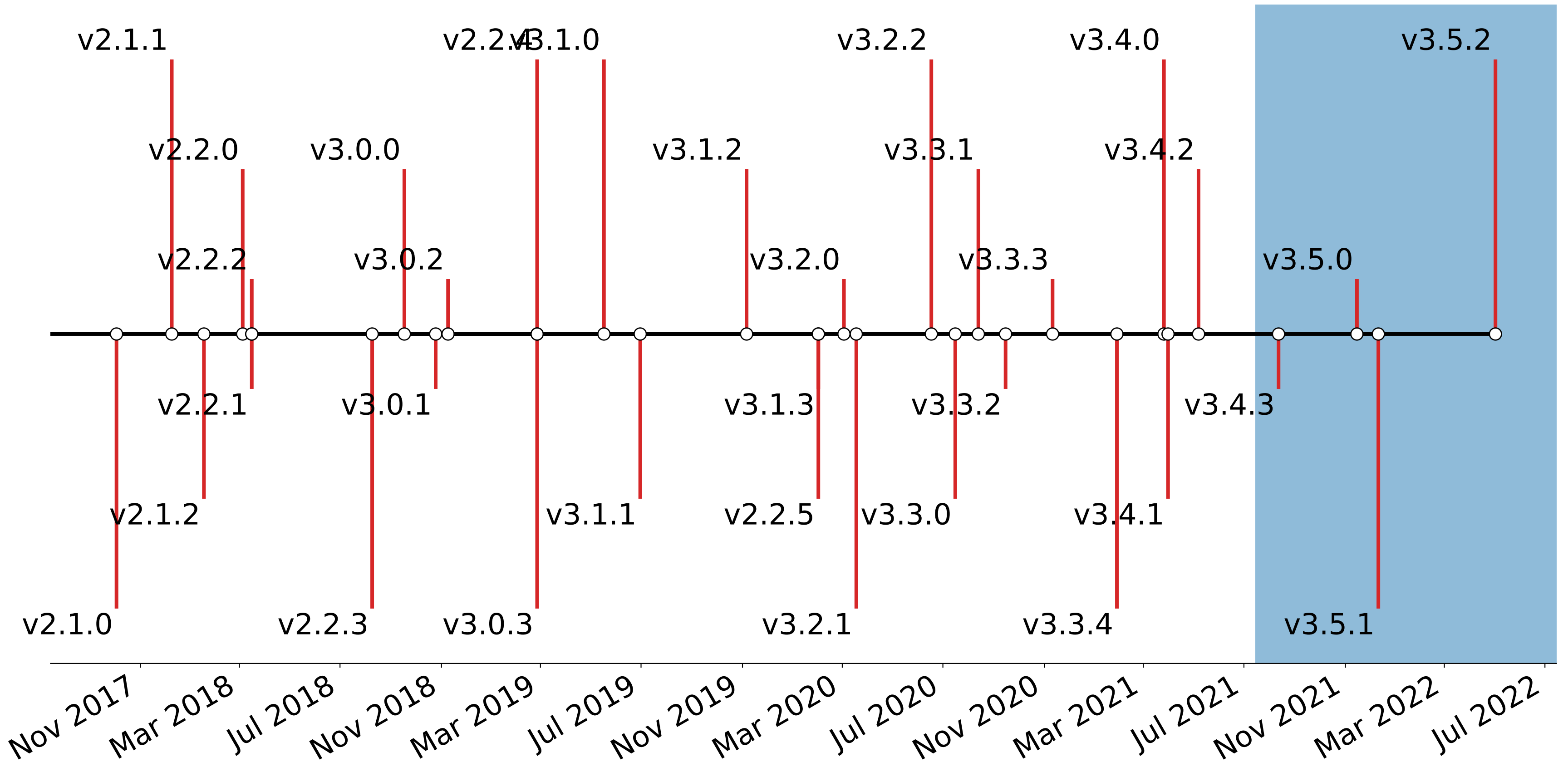
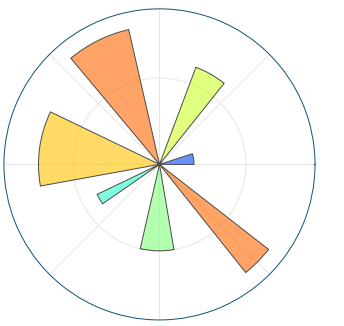
SciPy 2022  
@matplotlib

# Community News

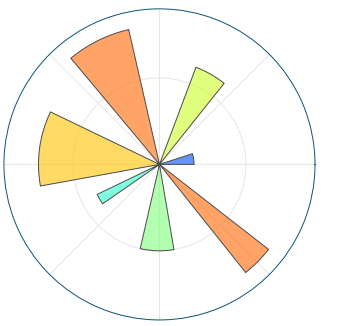


- **Chan Zuckerberg Initiative grant — EOSS cycle 4**  
Thomas Caswell, Elliott Sales de Andrade
- **NASA ROSES-OSTFL 2020**  
— **Revamping Matplotlib for Modern Data Structures**  
Kyle Sunden
- **Contributor Experience Leads**  
Melissa Mendonça and Noa Tamir
- **New Contributors Meeting (first Tuesday of month)**
- **Moved documentation from GitHub Pages to DigitalOcean**
- **Third-party packages**  
PyPI classifier: Framework :: Matplotlib  
<https://matplotlib.org/mpl-third-party/>

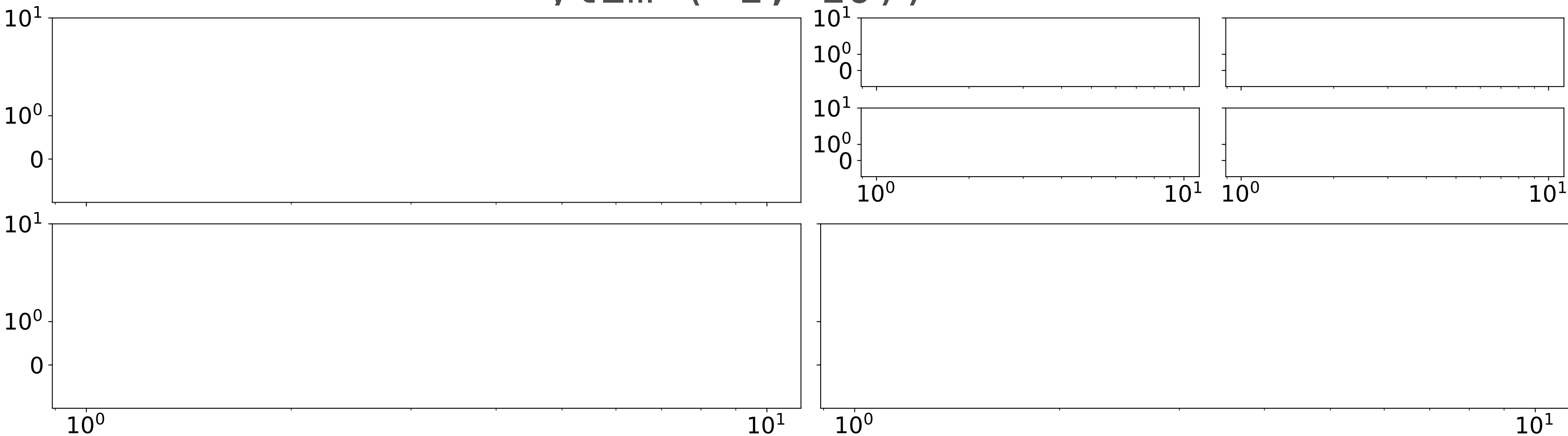
# Release History



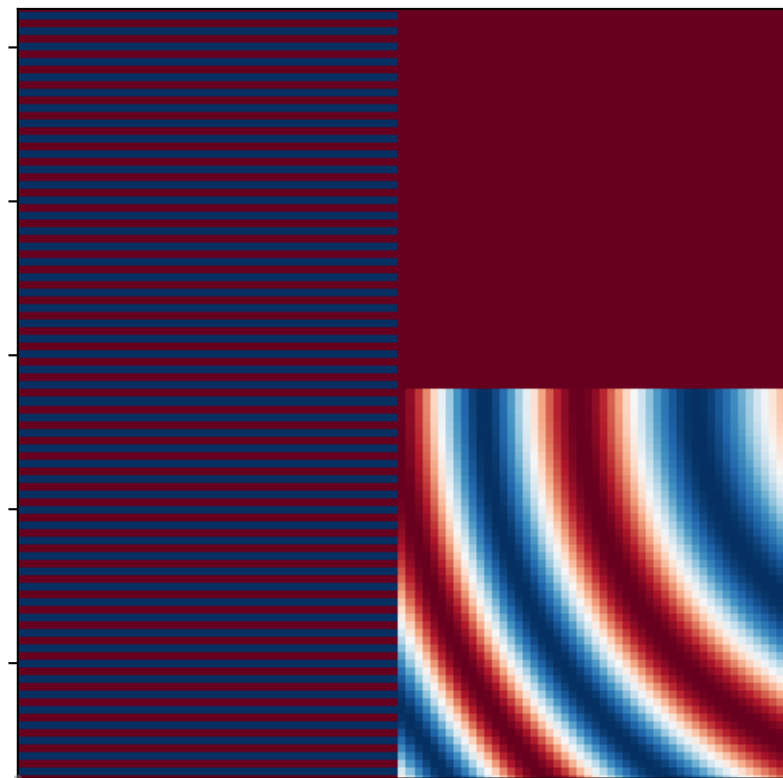
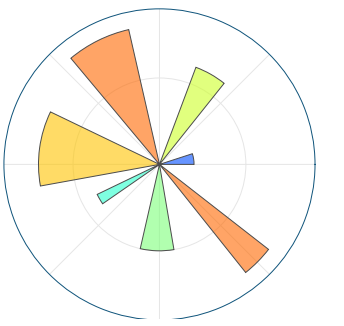
# 3.5: subplot\_mosaic Axes sharing



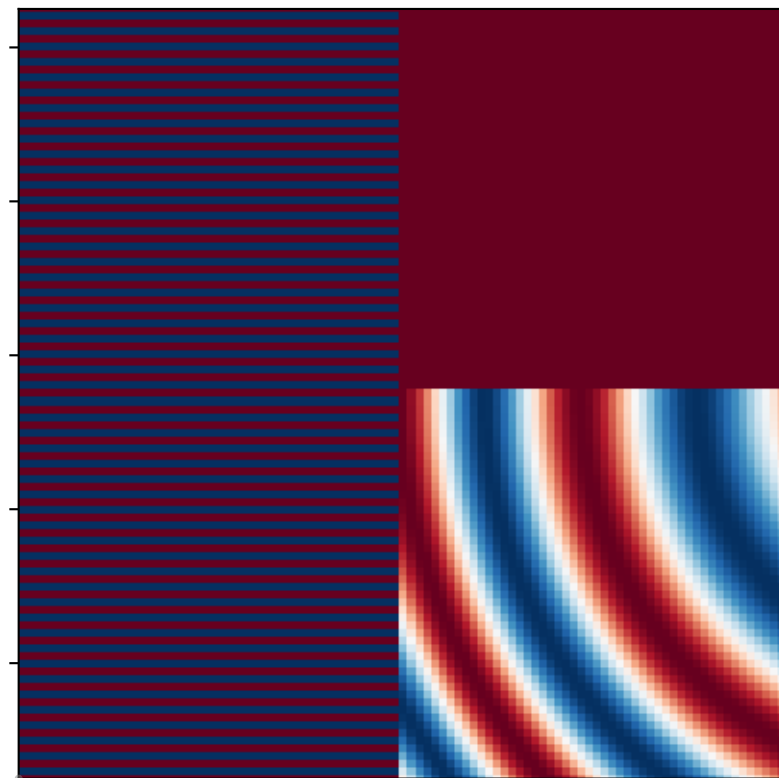
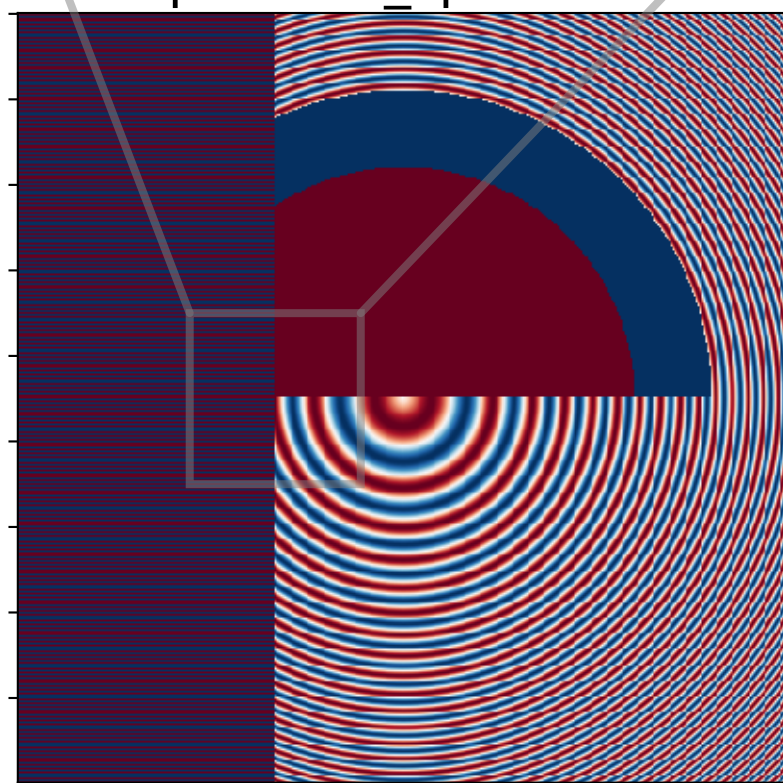
```
mosaic = [['A', [['B', 'C'], ['D', 'E']],  
          ['F', 'G']]  
ax_dict = fig.subplot_mosaic(mosaic, sharex=True,  
                             sharey=True)  
ax_dict['A'].set(xscale='log', yscale='symlog',  
                 ylim=(-1, 10))
```



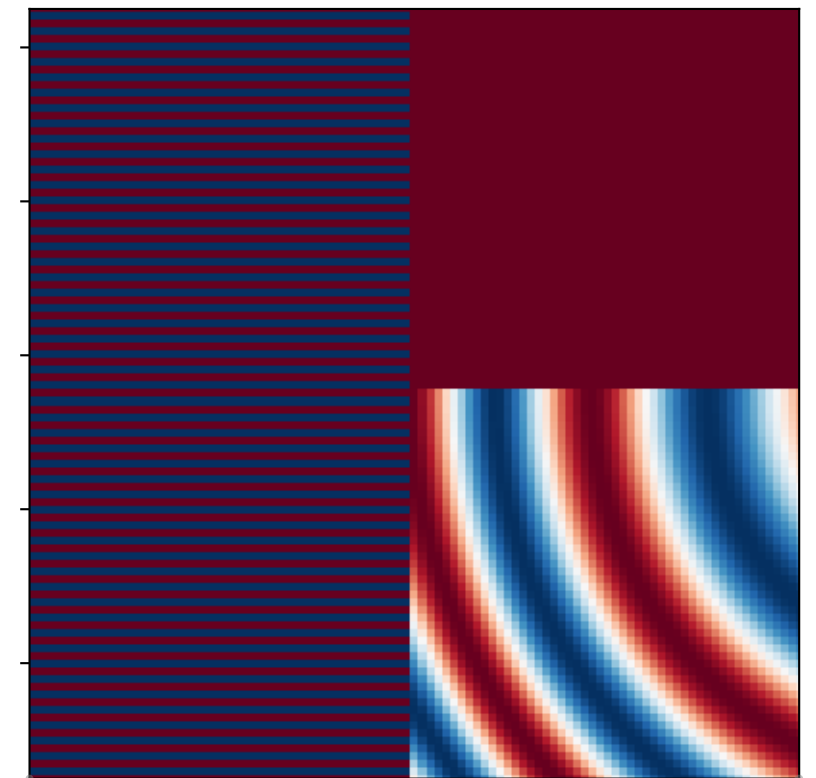
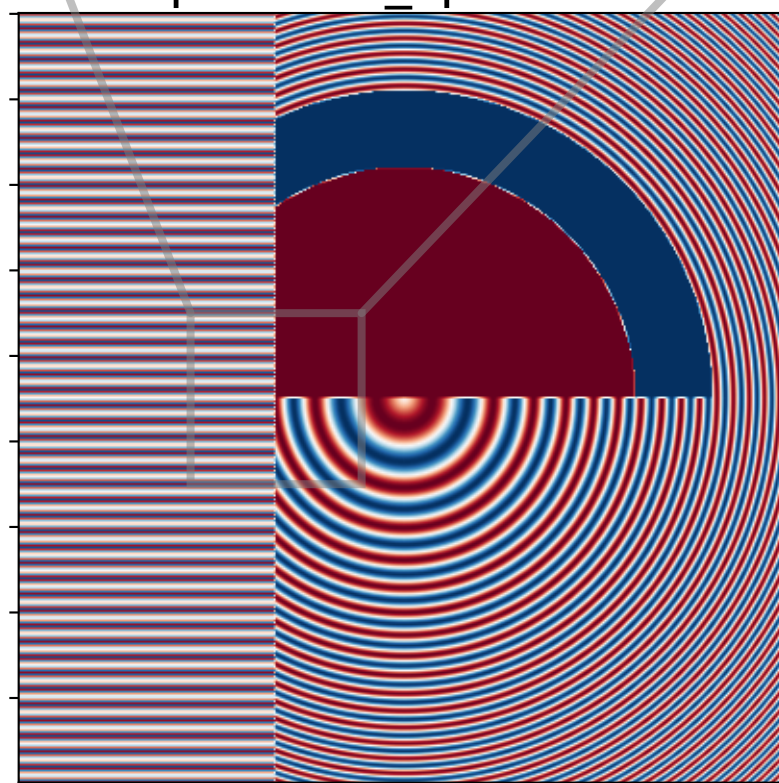
# 3.5: RGBA image interpolation



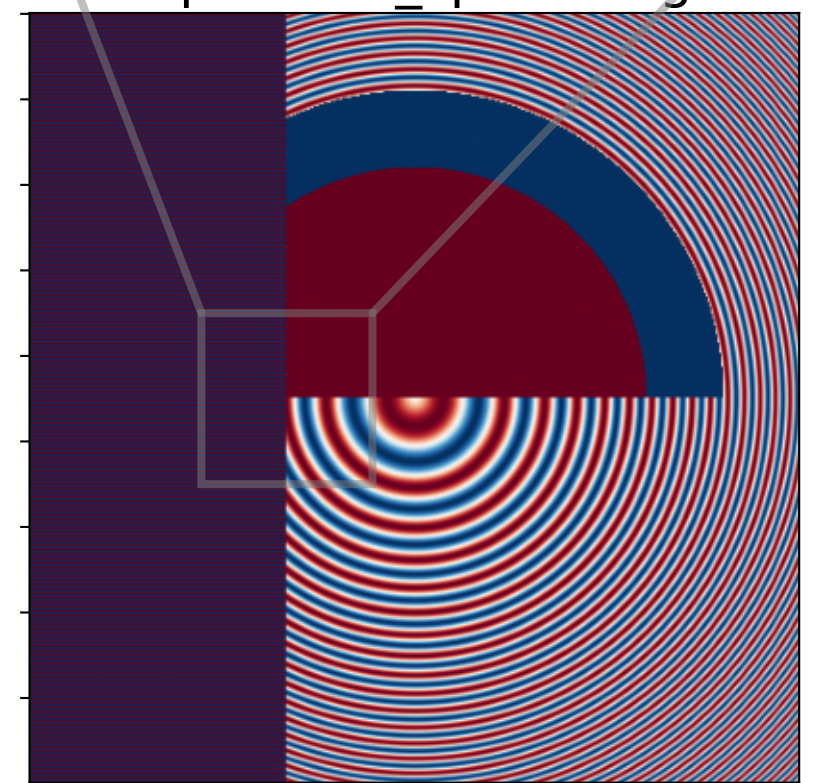
interpolation='nearest'  
interpolation\_space='data'



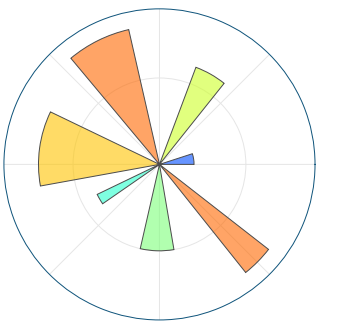
interpolation='antialiased'  
interpolation\_space='data'



interpolation='antialiased'  
interpolation\_space='rgba'



# 3.5 Miscellaneous Features

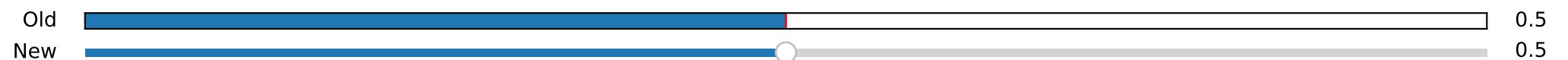


New backends:

- Qt6/PySide6
- GTK4

Improved widgets:

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



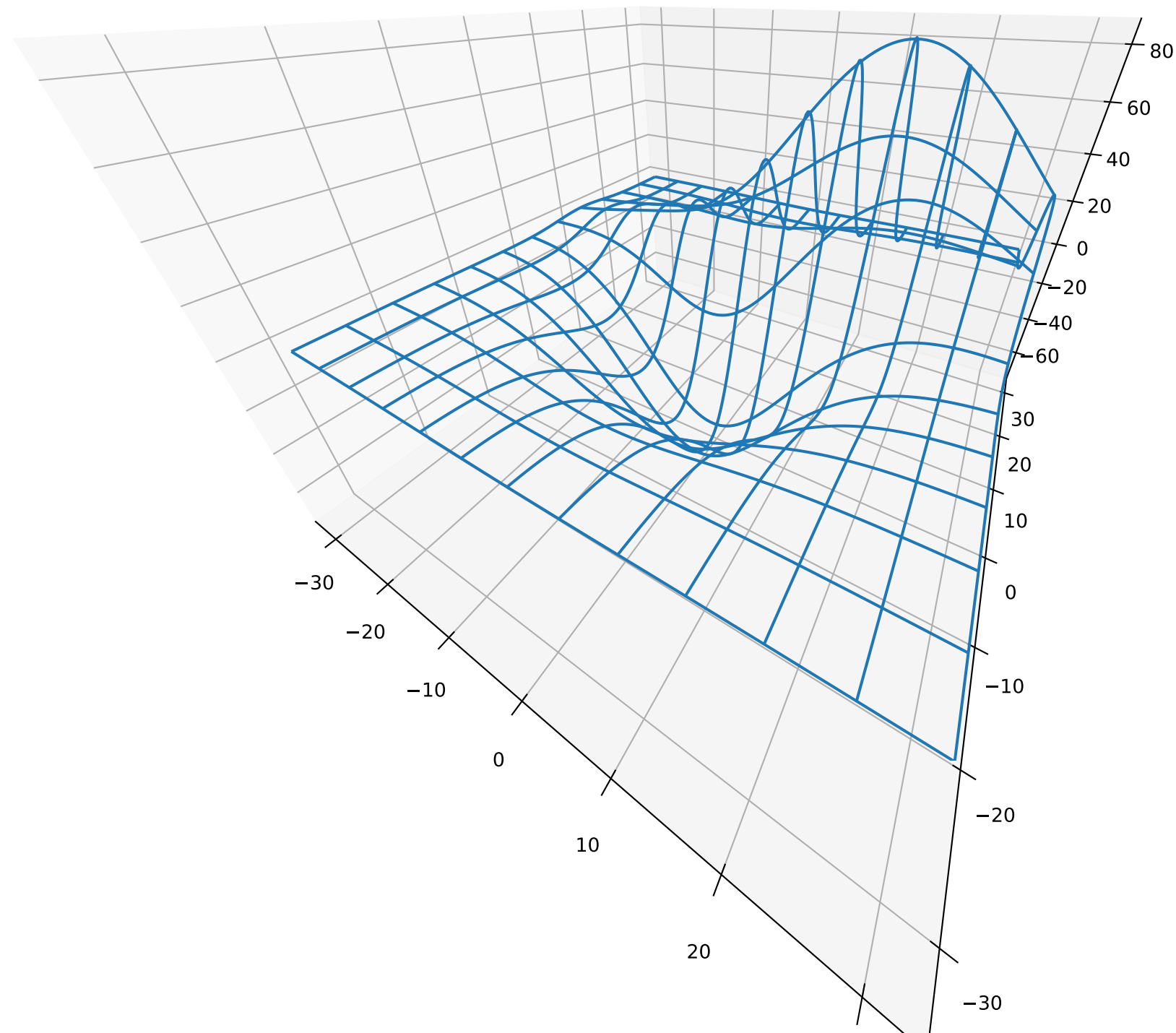
## 3.5 What's New?

[https://matplotlib.org/3.5.0/users/prev\\_whats\\_new/whats\\_new\\_3.5.0.html](https://matplotlib.org/3.5.0/users/prev_whats_new/whats_new_3.5.0.html)

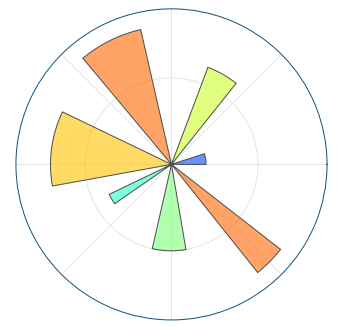
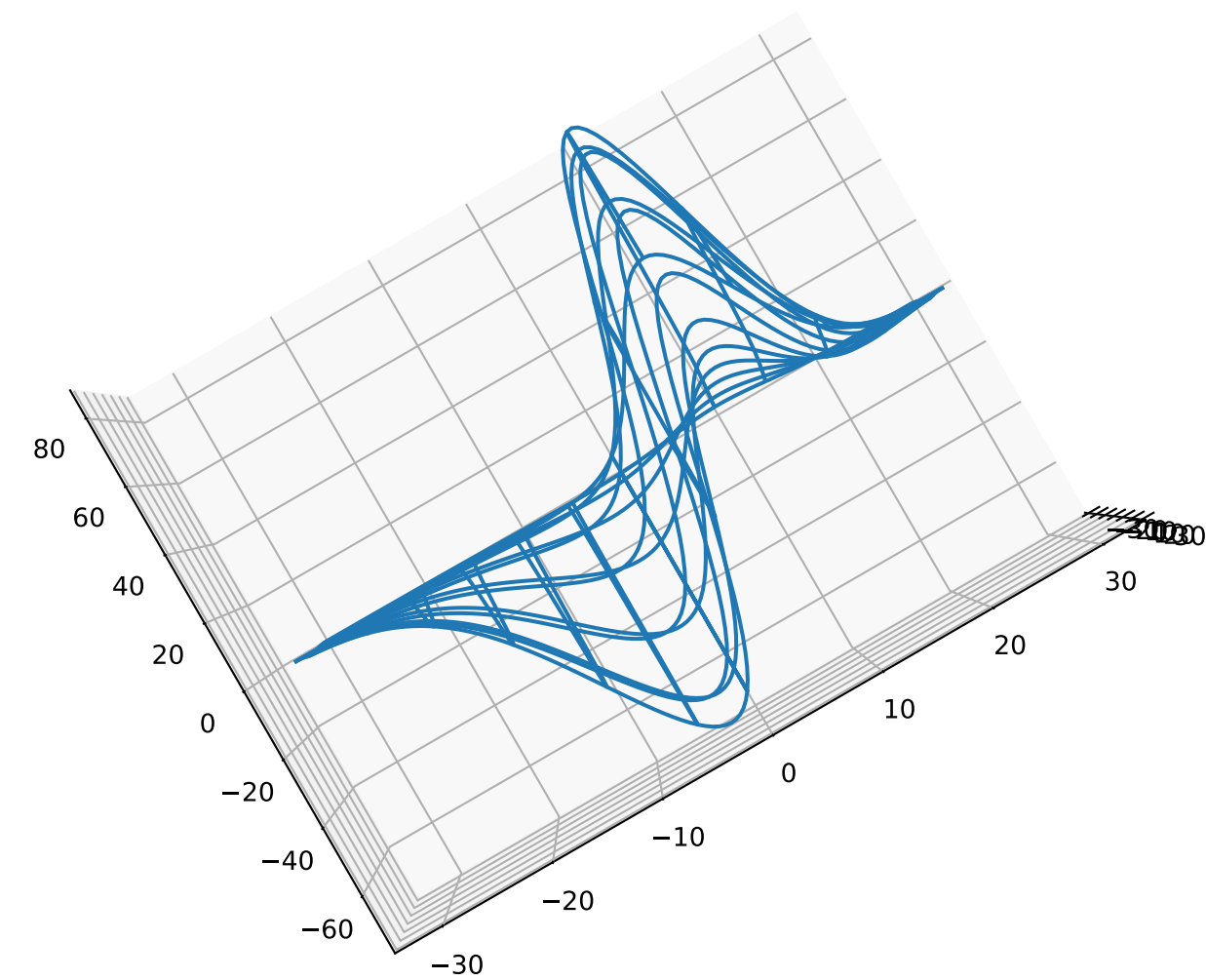


# 3.6: 3D Improvements

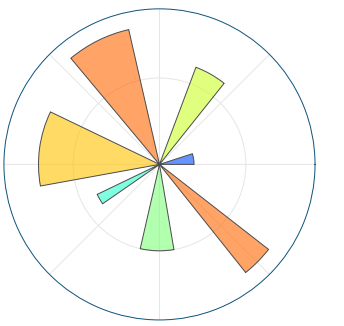
focal\_length = 0.1



roll=30



## 3.6: Font Fallback



There are 几个汉字 in between!  
['WenQuanYi Zen Hei']

There are 几个汉字 in between!  
['Noto Sans CJK JP']

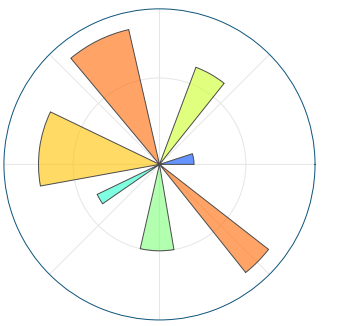
There are □□□□ in between!  
['DejaVu Sans']

There are 几个汉字 in between!  
['DejaVu Sans', 'Noto Sans CJK JP']

There are 几个汉字 in between!  
['DejaVu Sans', 'WenQuanYi Zen Hei']



# Future Plans



## Upcoming 3.6 What's New?

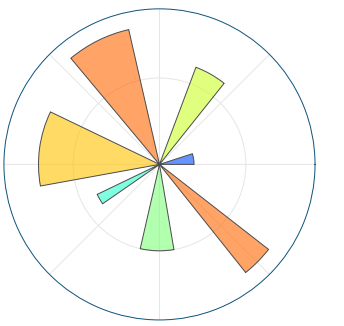
[https://matplotlib.org/devdocs/users/next\\_whats\\_new.html](https://matplotlib.org/devdocs/users/next_whats_new.html)

## Once tagged, will be at:

[https://matplotlib.org/3.6.0/users/prev\\_whats\\_new/whats\\_new\\_3.6.0.html](https://matplotlib.org/3.6.0/users/prev_whats_new/whats_new_3.6.0.html)

## Your Contribution?

# Thank You!



**This entire presentation was made in Matplotlib:**  
**<https://github.com/QuLogic/scipy2022-mpl-update>**