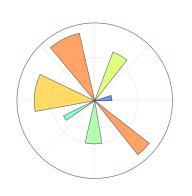
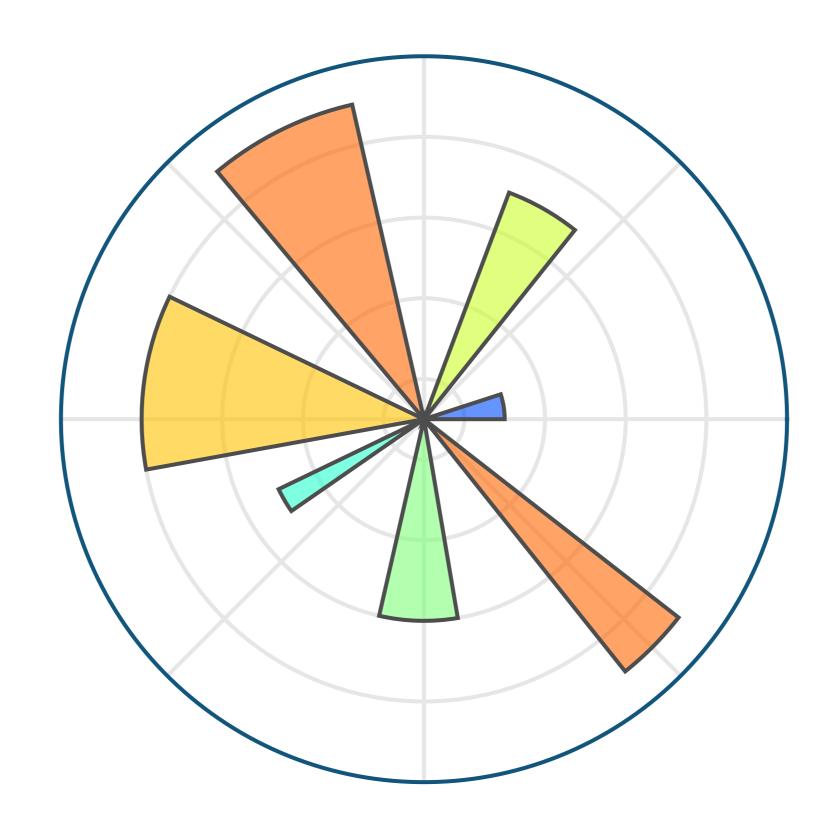
matolib

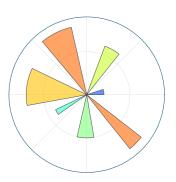
Plotting
Slides
in
@matplotlib

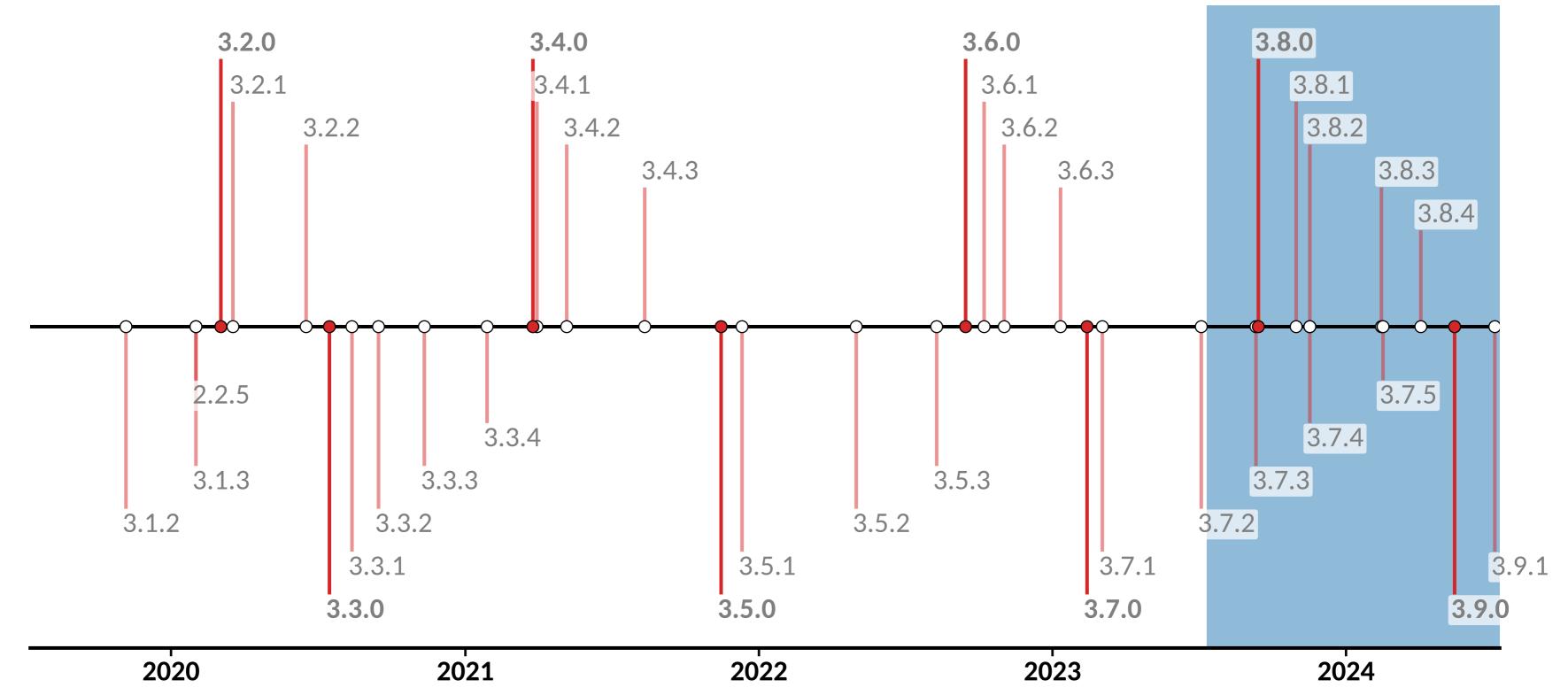
Example: Logo



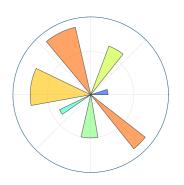


Example: Release History





Examples



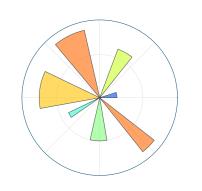
Both are examples from Matplotlib gallery

https://matplotlib.org/stable/gallery/misc/logos2.html

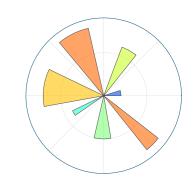


https://matplotlib.org/stable/gallery/lines_bars_and_markers/timeline.html





(F) WHY???

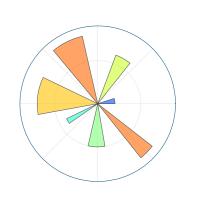


Why Not?

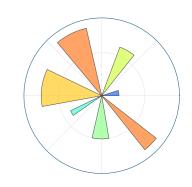
Slide setup

Set a big figure (1080p):

```
plt.rcParams["figure.figsize"] = (
    19.2, 10.8)
plt.rcParams["figure.dpi"] = 100
```



Slide setup



Set a nice font:

Slide setup

Set better Axes sizes:

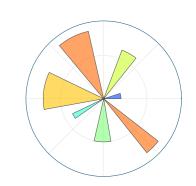
```
plt.rcParams['axes.linewidth'] = 3
plt.rcParams['axes.labelsize'] = 40
plt.rcParams['xtick.labelsize'] = 32
plt.rcParams['xtick.major.width'] = 2
plt.rcParams['xtick.major.size'] = 7
plt.rcParams['ytick.labelsize'] = 32
plt.rcParams['ytick.major.width'] = 2
plt.rcParams['ytick.major.size'] = 7
plt.rcParams['lines.linewidth'] = 3
```

Save the slides

from matplotlib.backends.backend_pdf import (
 PdfPages)

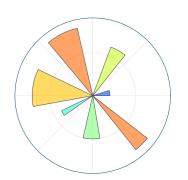
```
figures = [...]
with PdfPages('name.pdf') as pdf:
    for fig in figures:
        add_logo(fig)
        pdf.savefig(fig)
```

Add a slide title

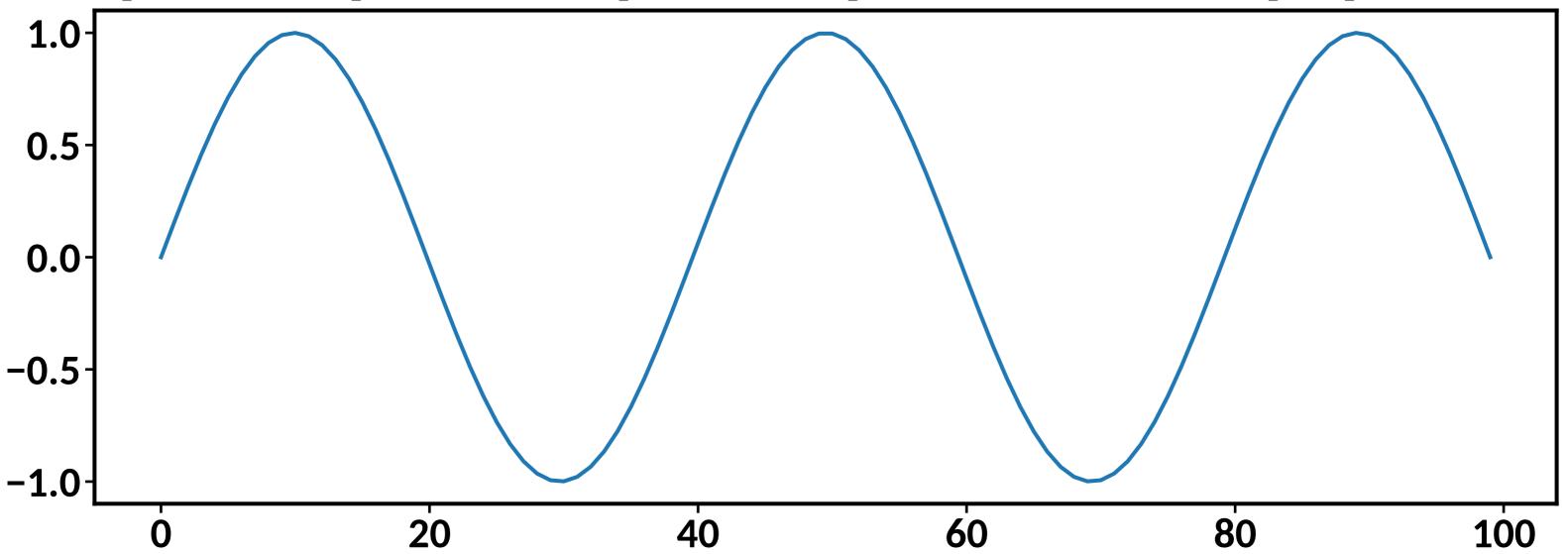


```
def slide_heading(fig, text):
    """
Add a heading to a slide,
    using a common style.
```

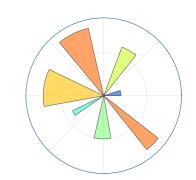
Add a plot



```
fig, ax = plt.subplots()
slide_heading(fig, 'Add a plot')
ax.plot(np.sin(np.linspace(0, 5*np.pi, 100)))
```







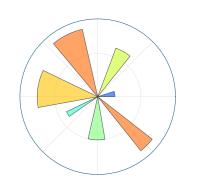
Here is some explanatory text

```
fig.text(0.05, 0.75,
    'Here is some explanatory text')
```

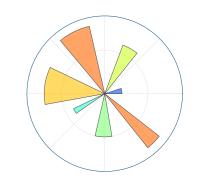
Add an image

```
img = plt.imread('grace_hopper.jpg')
fig.figimage(img, xo=..., yo=...)
```





And that's all we need!

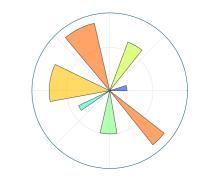


Was that a good idea?

Bonus: QR codes

import segno
qrcode = segno.make(url)
out = io.ByteslO()

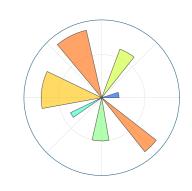




qrcode.save(out, kind='png', dark=MPL_BLUE)
out.seek(0)

img = Image.open(out).convert('RGB')
ax = fig.add_axes(

location, frameon=False, xticks=[], yticks=[])
ax.imshow(img)



Demo

https://github.com/QuLogic/scipy2024-lightning-mpl-slides

