matplotlib

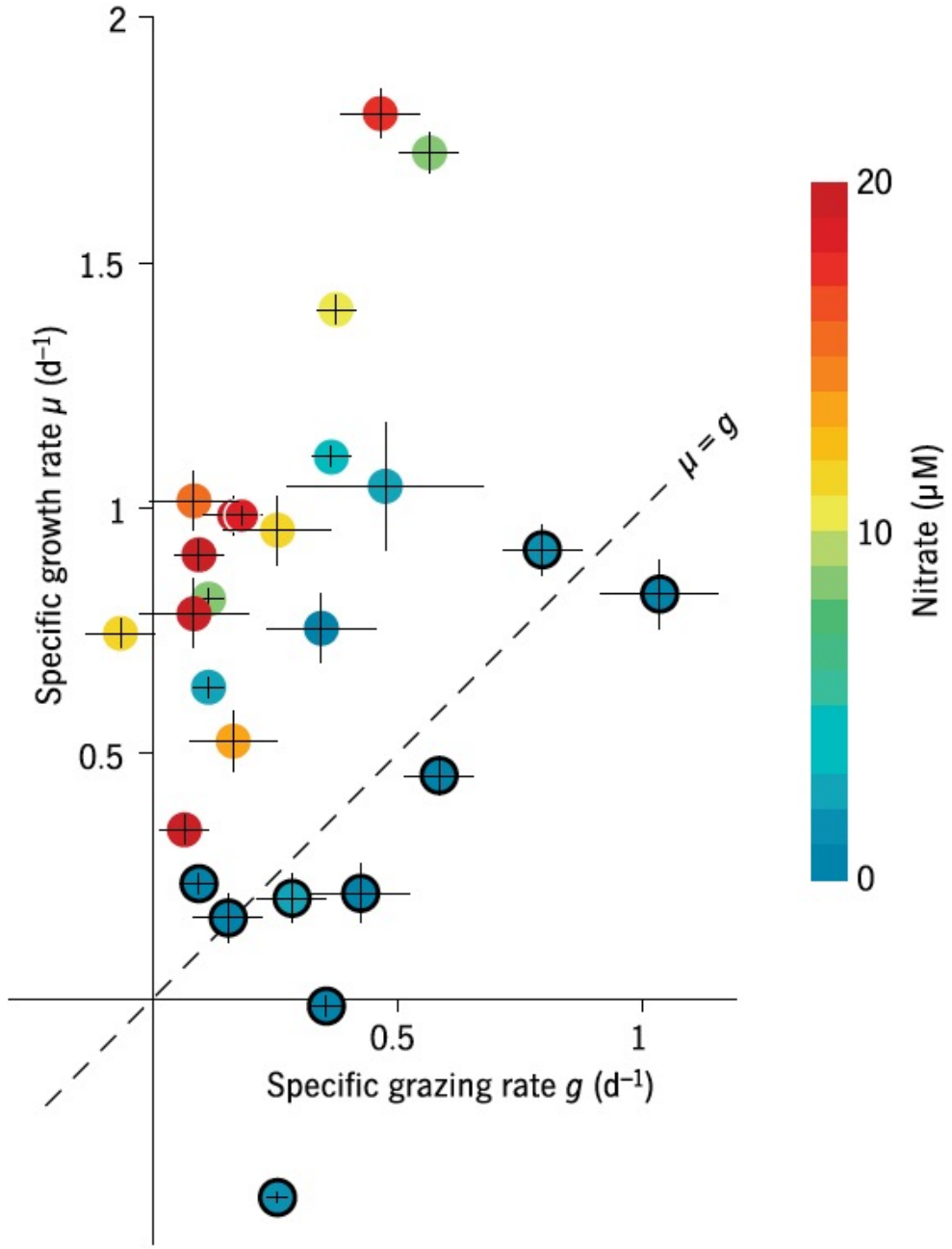
Making your figures beautiful

This PPT and associated code has useful tips about how to get your figures to be more effective in presentations and publications. It is part graphical advice, and part about how to get matplotlib to do what you want.

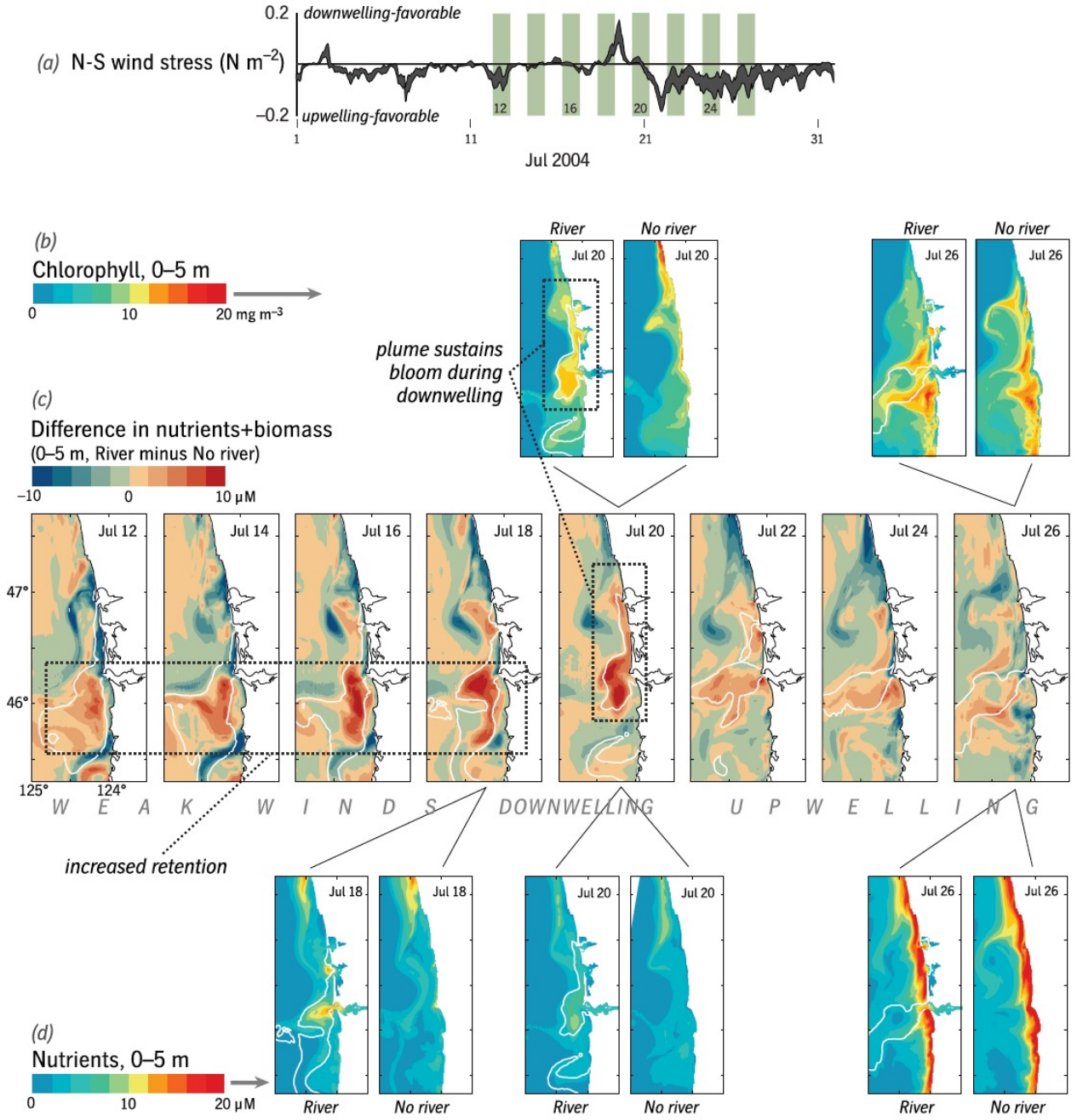
Associated code at:

https://github.com/parkermac/pmec.git

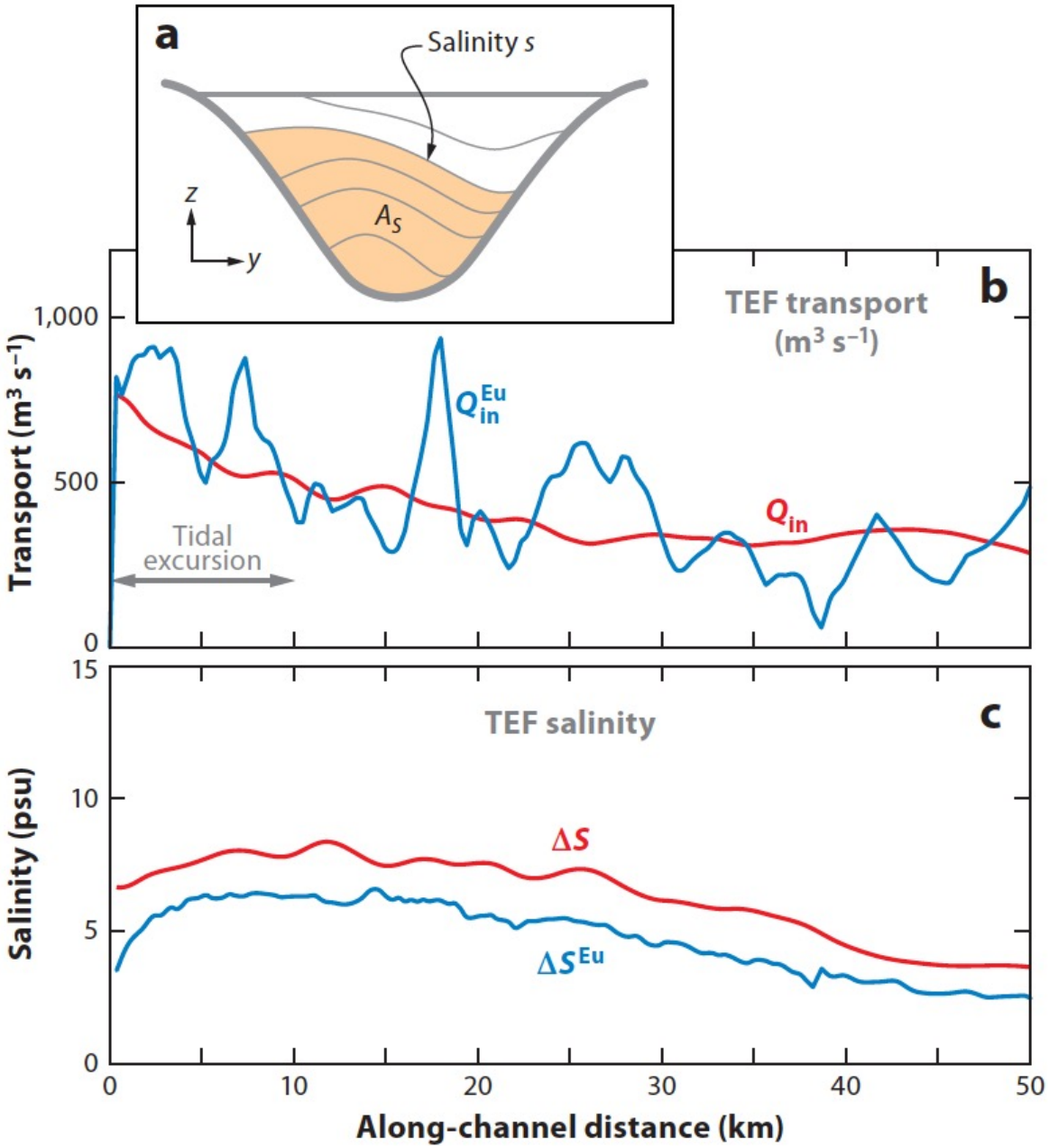
Keep it simple



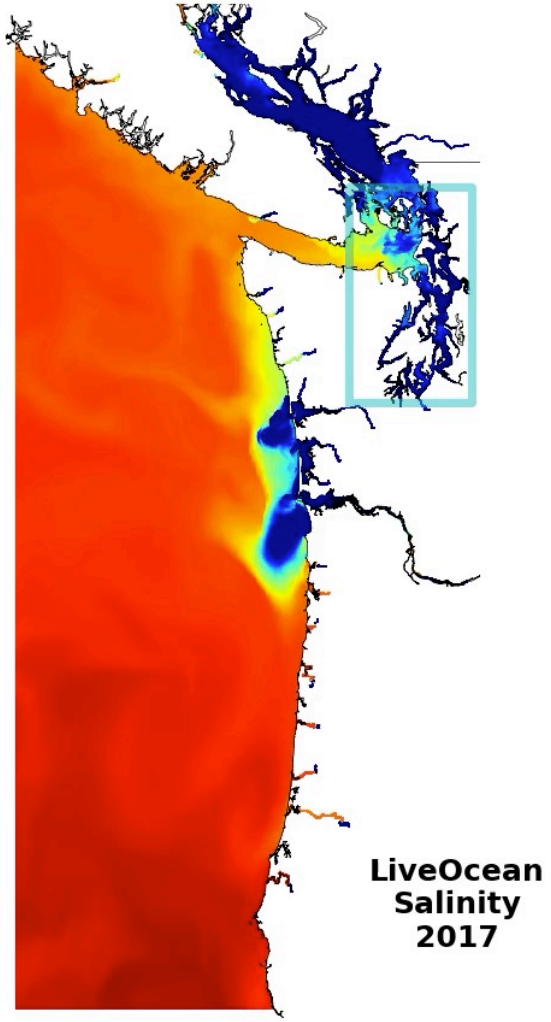
Maximal control, by Neil Banas

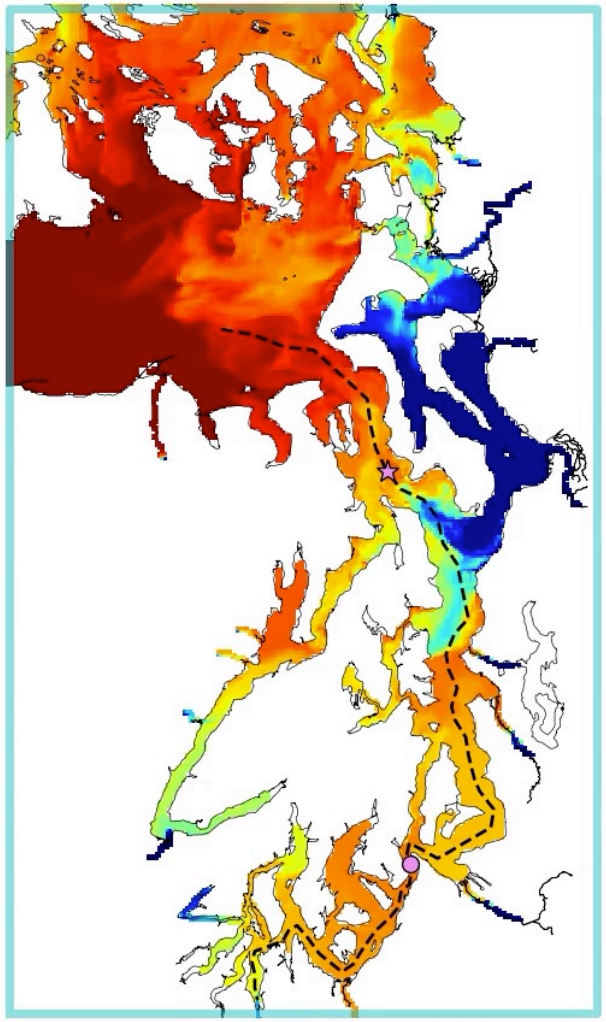


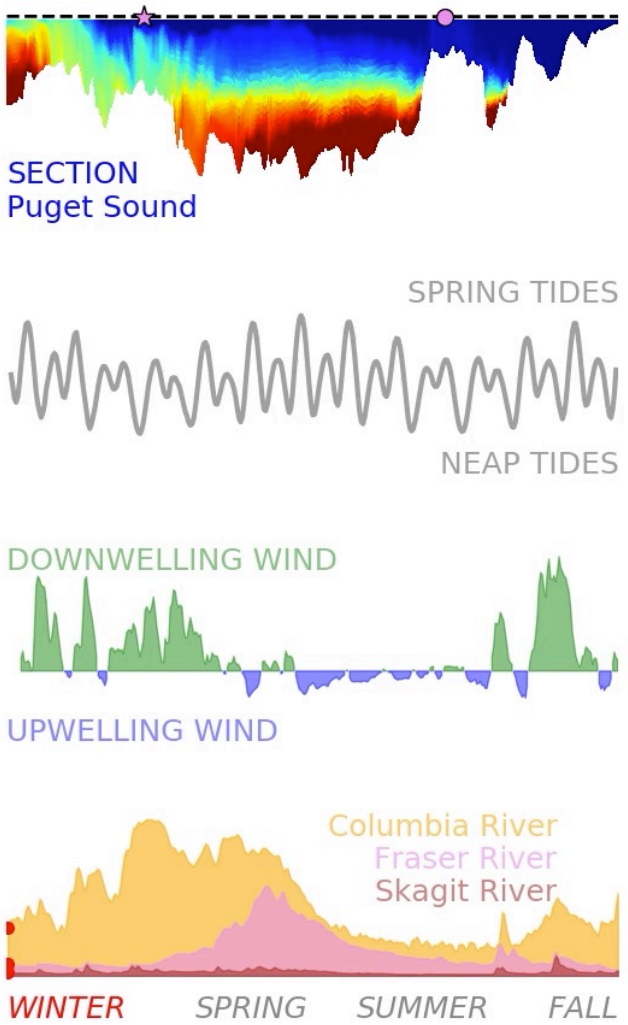
Professional touches, from *Annual Reviews*



Movies can be made from collections of .png's using ffmpeg







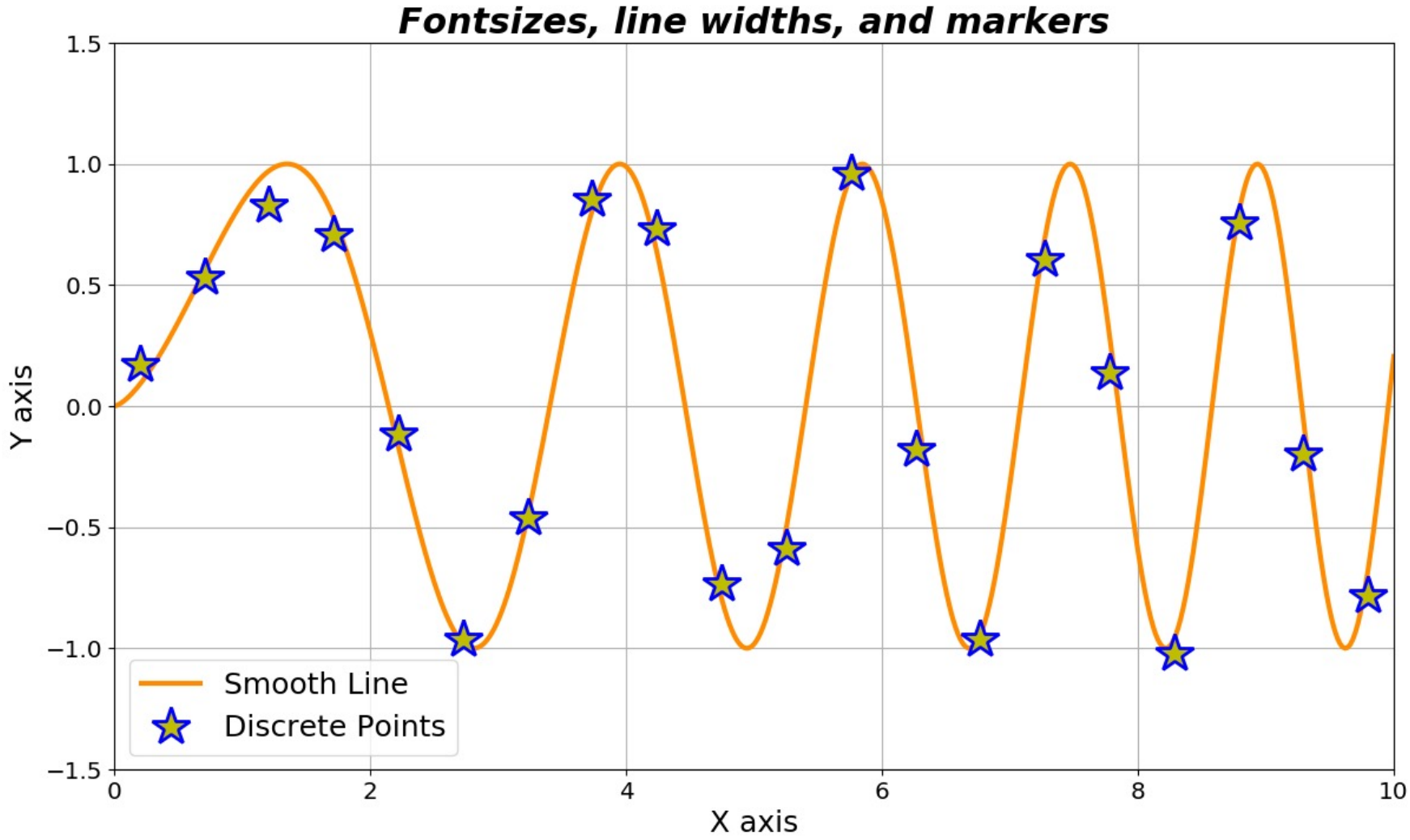
Instructions for getting ffmpeg (mac): http://faculty.washington.edu/pmacc/LO/movies.html

Color names you can use

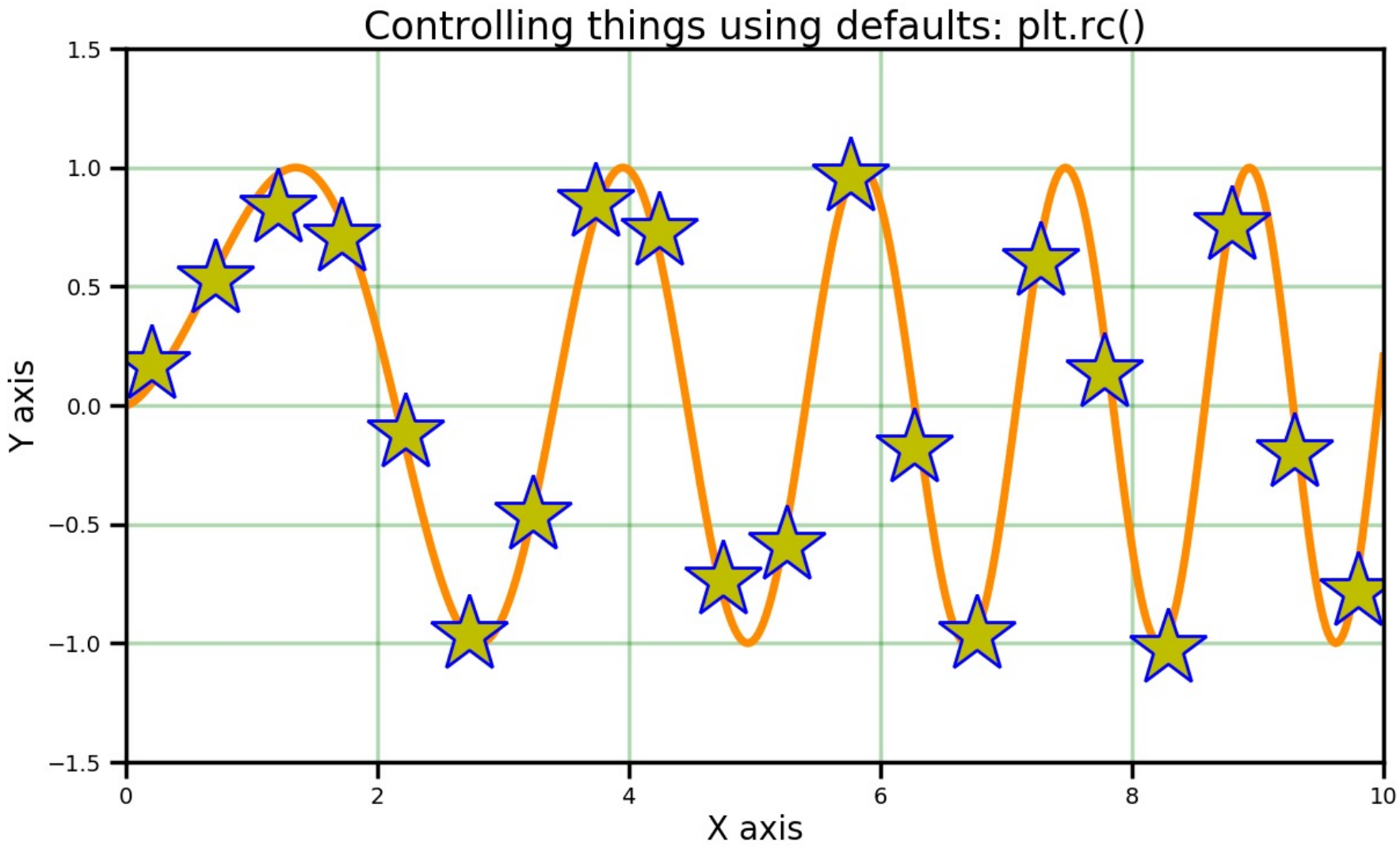
Colormaps (also available as [cmap]_r)

example_show_colormaps.py

fontsize_and_linewidth.py



fontsize_and_linewidth.py ...more

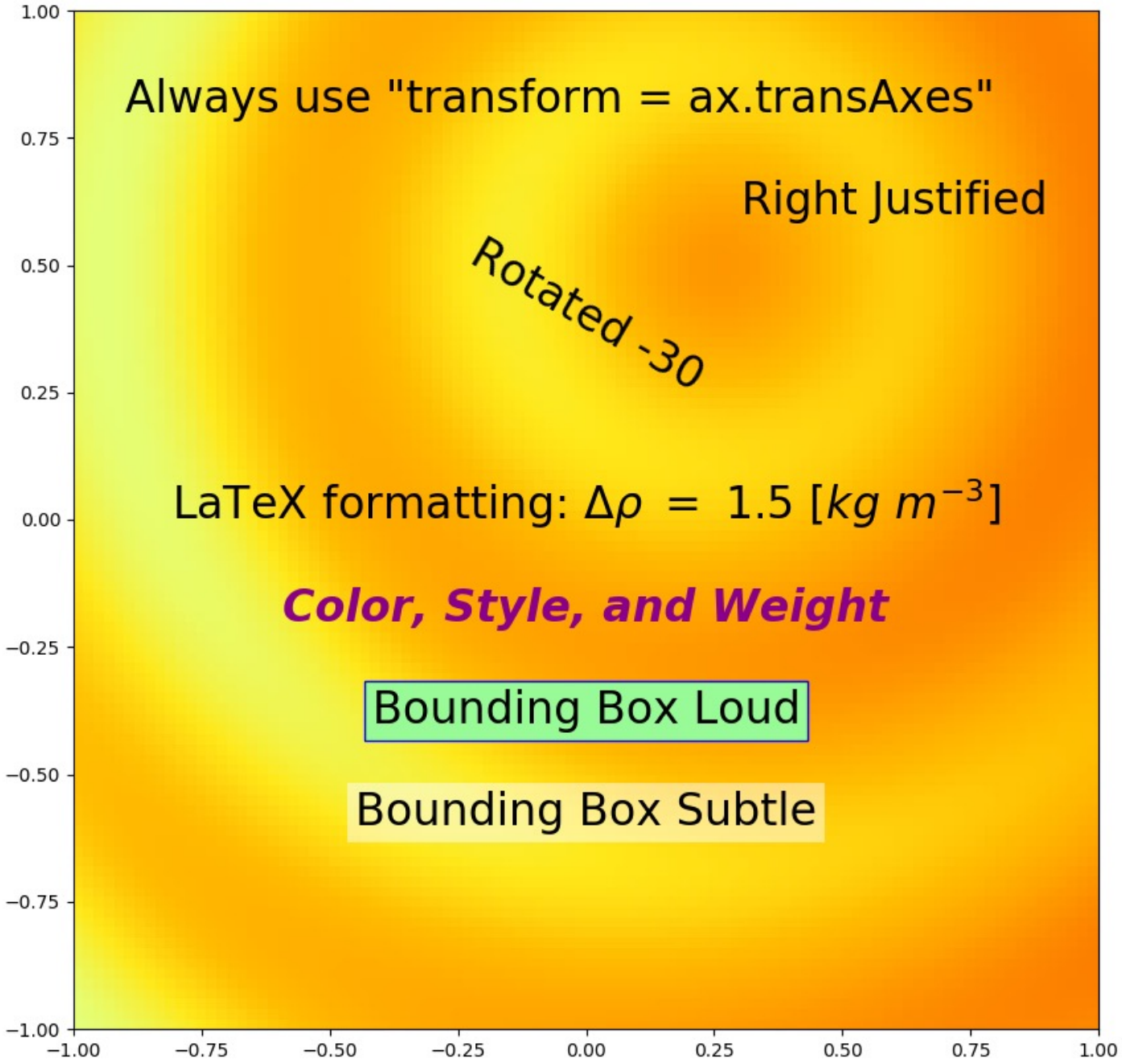


more thoughts about using defaults

- One of the quickest ways to make all your text big enough to read is to use these few lines at the start and end of the plotting section of your code:

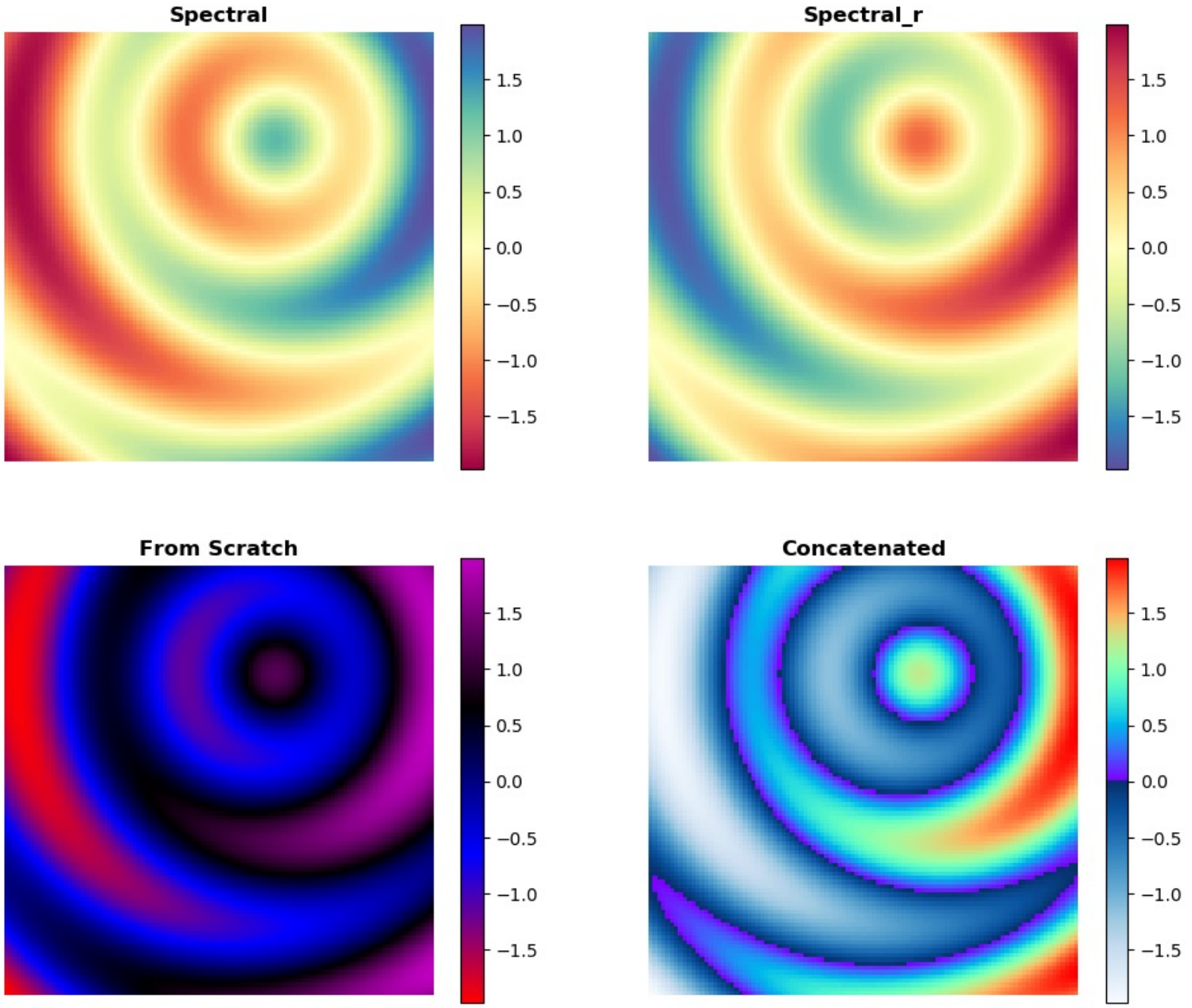
```
fs = 18 # set default fontsize
plt.rc('font', size=fs)
# -- plotting code goes here --
plt.rcdefaults() # restore defaults
```

text_control.py



colormaps.py

and ax.set_axis_off()



salt_map.py: aspect ratio and inset colorbar