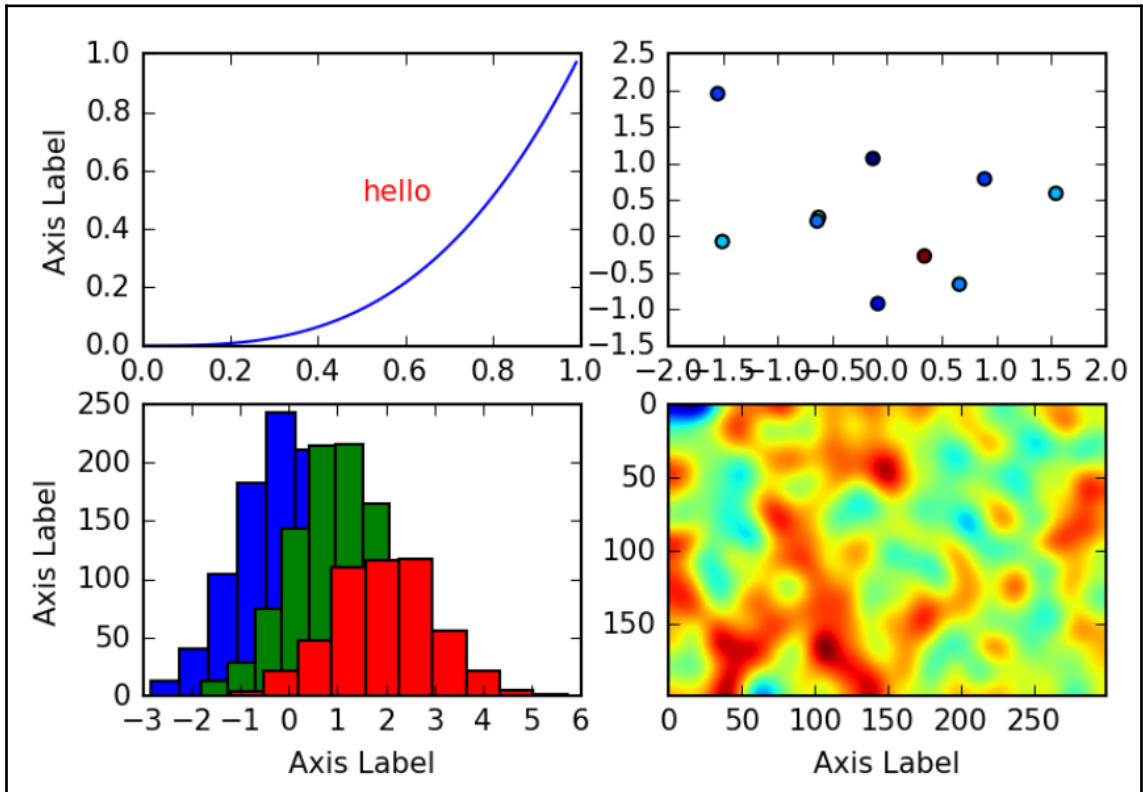


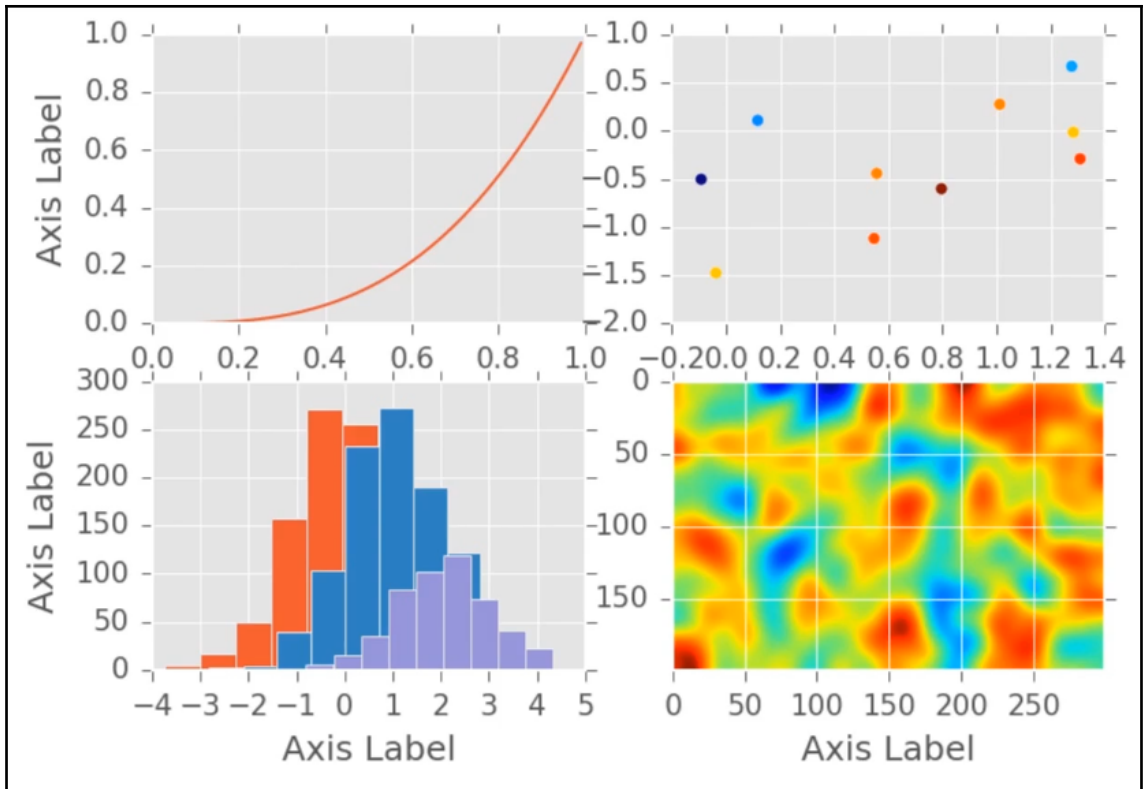
# Chapter 1: Heavy Customization

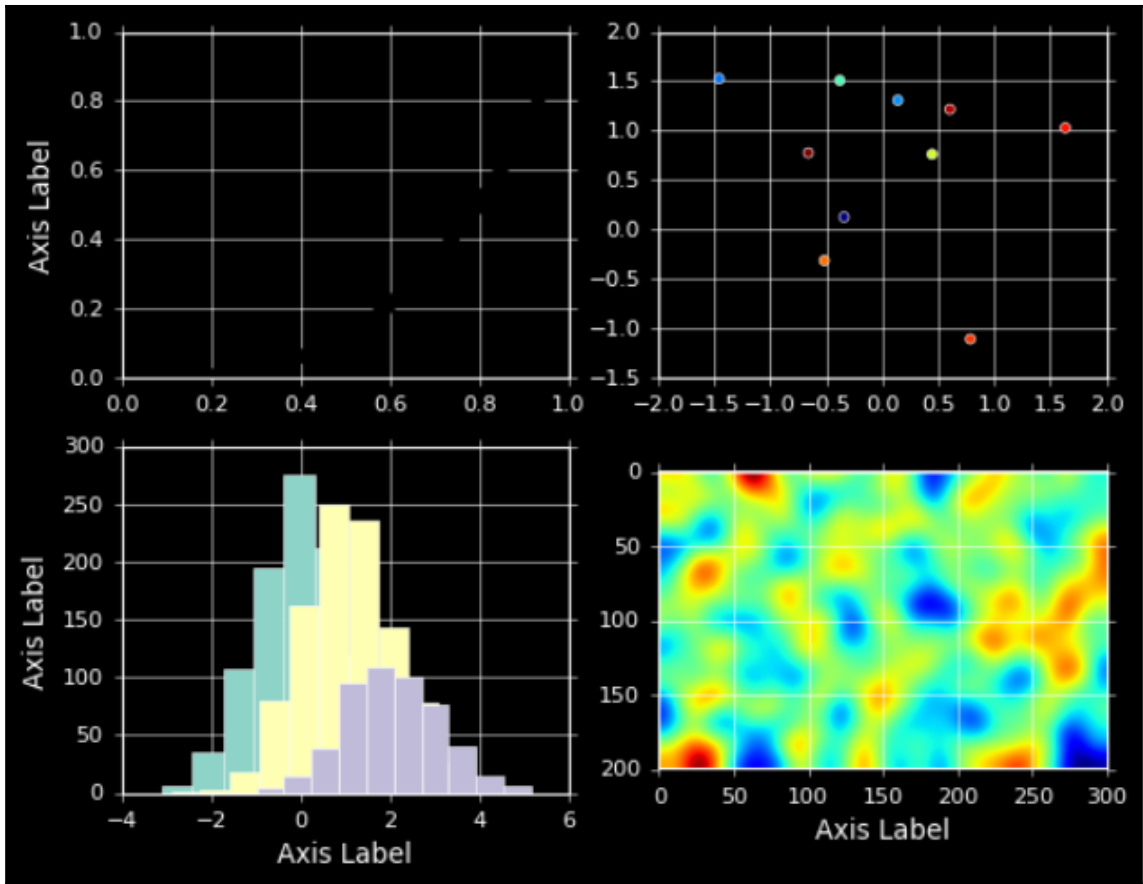


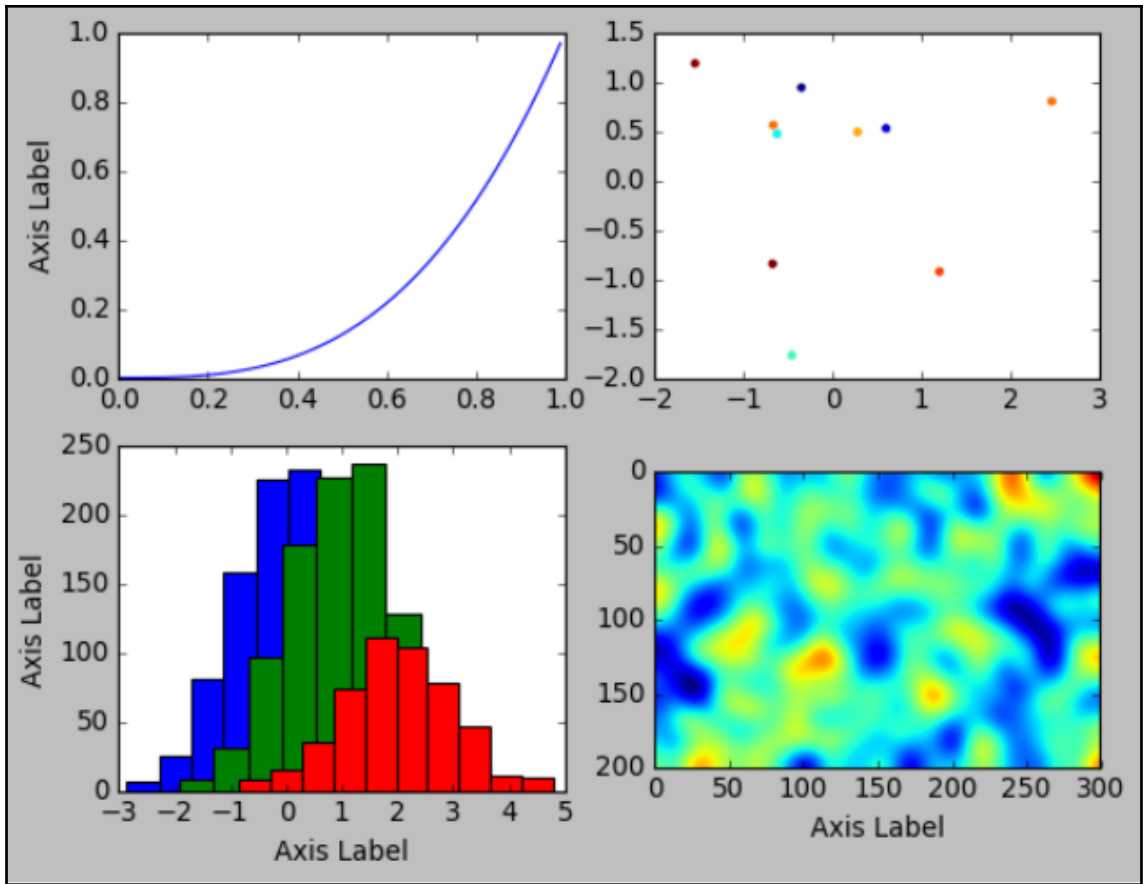
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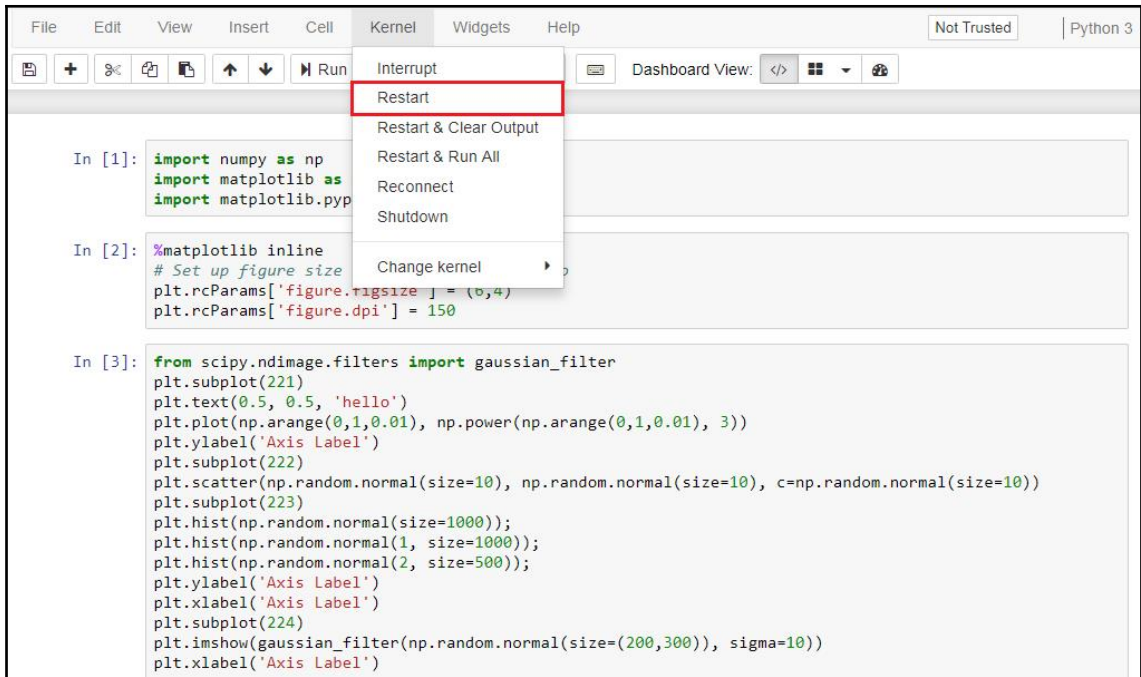
```
In [4]: # What styles are available?  
plt.style.available
```

```
Out[4]: ['bmh',  
         'classic',  
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         'fivethirtyeight',  
         'ggplot',  
         'grayscale',  
         'seaborn-bright',  
         'seaborn-colorblind',  
         'seaborn-dark-palette',  
         'seaborn-dark',  
         'seaborn-darkgrid',  
         'seaborn-deep',  
         'seaborn-muted',  
         'seaborn-notebook',  
         'seaborn-paper',  
         'seaborn-pastel',  
         'seaborn-poster',  
         'seaborn-talk',  
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         'seaborn-whitegrid',  
         'seaborn',  
         '_classic_test']
```





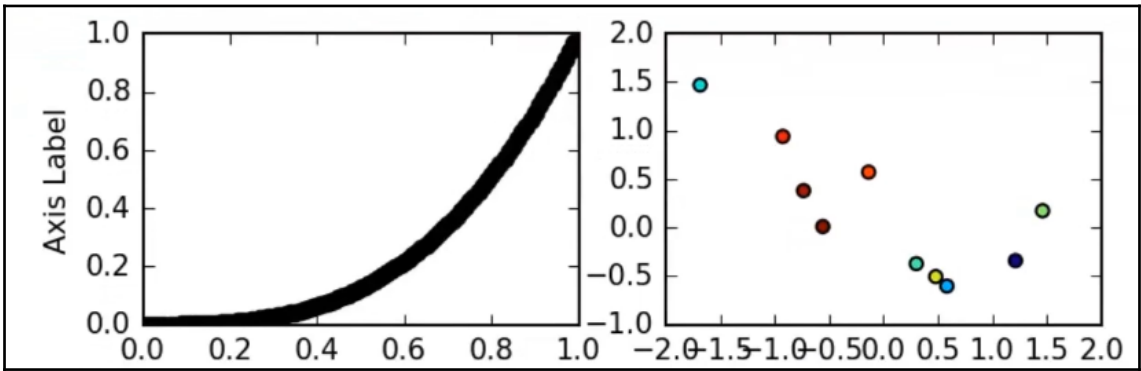
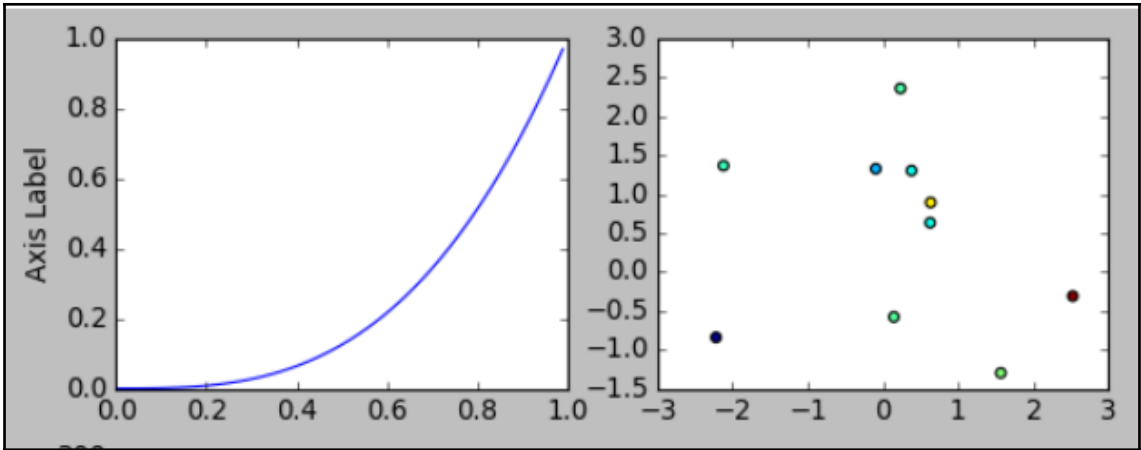




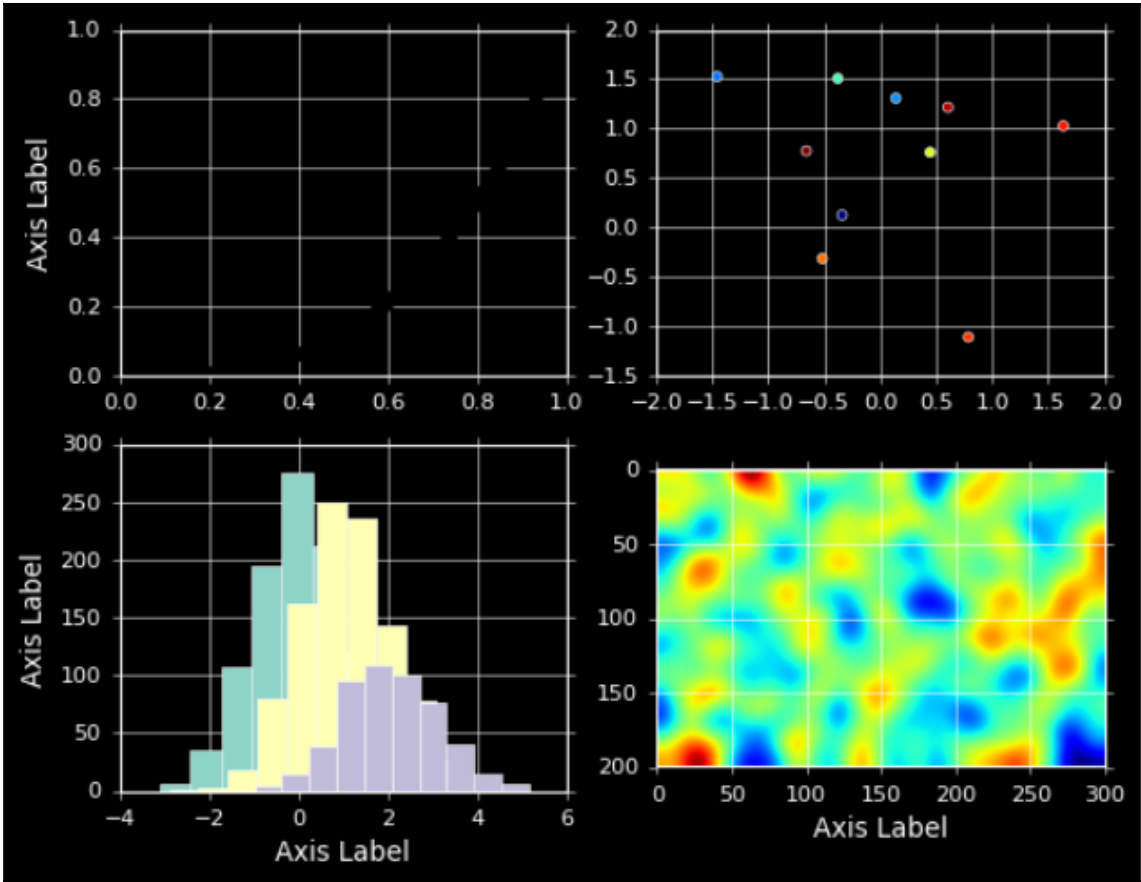
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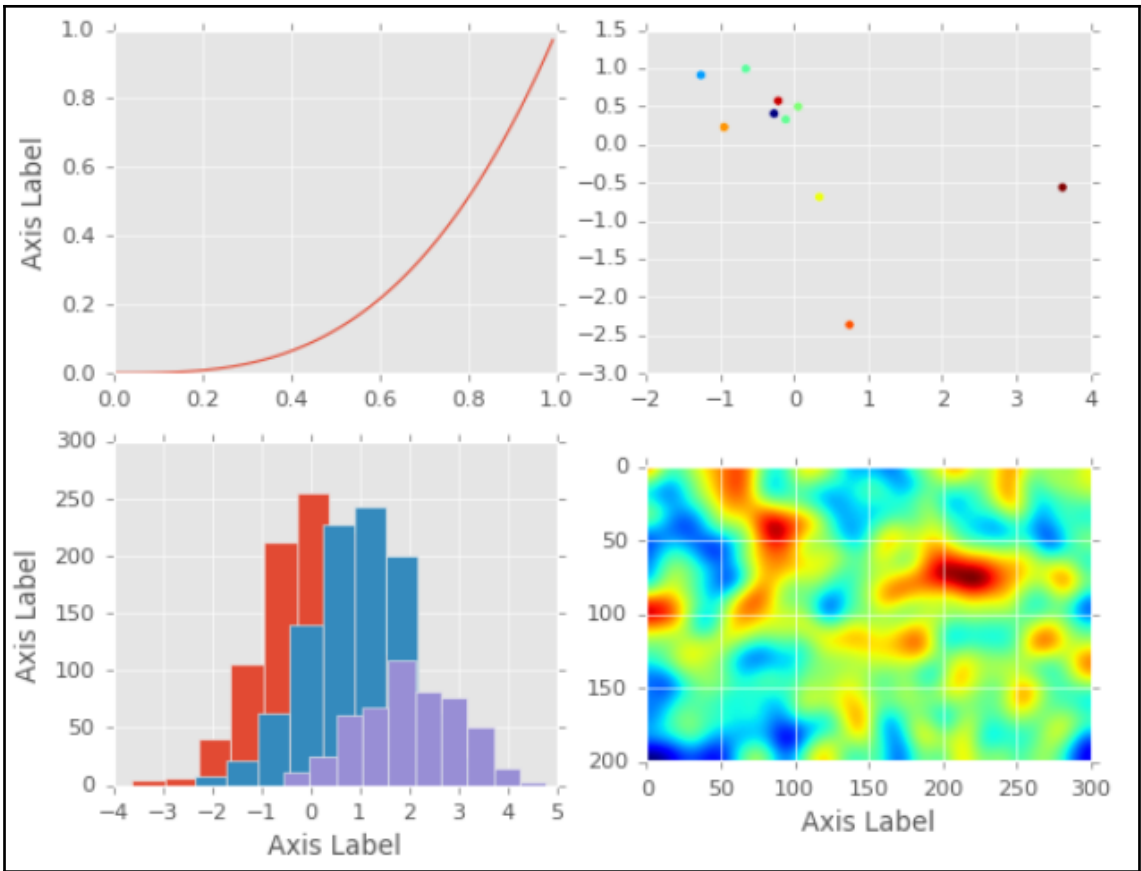
```
In [4]: # What styles are available?  
plt.style.available
```

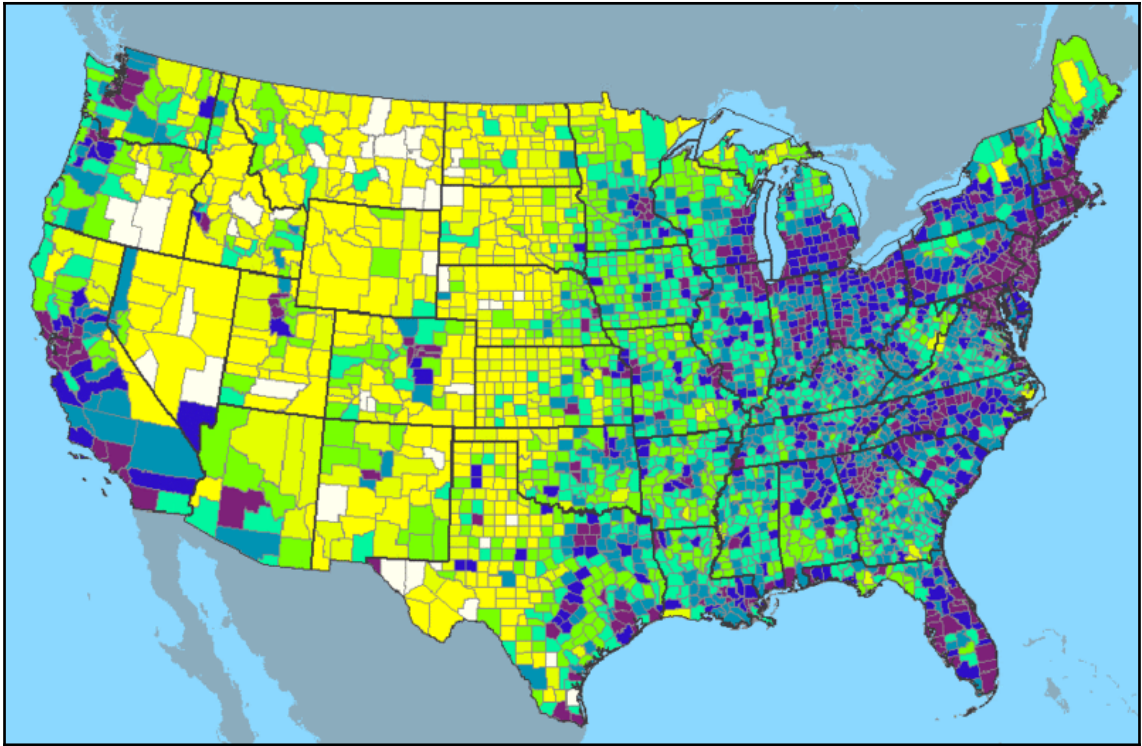
```
Out[4]: ['bmh',  
         'classic',  
         'dark_background',  
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         'seaborn-colorblind',  
         'seaborn-dark-palette',  
         'seaborn-dark',  
         'seaborn-darkgrid',  
         'seaborn-deep',  
         'seaborn-muted',  
         'seaborn-notebook',  
         'seaborn-paper',  
         'seaborn-pastel',  
         'seaborn-poster',  
         'seaborn-talk',  
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         'seaborn',  
         '_classic_test']
```

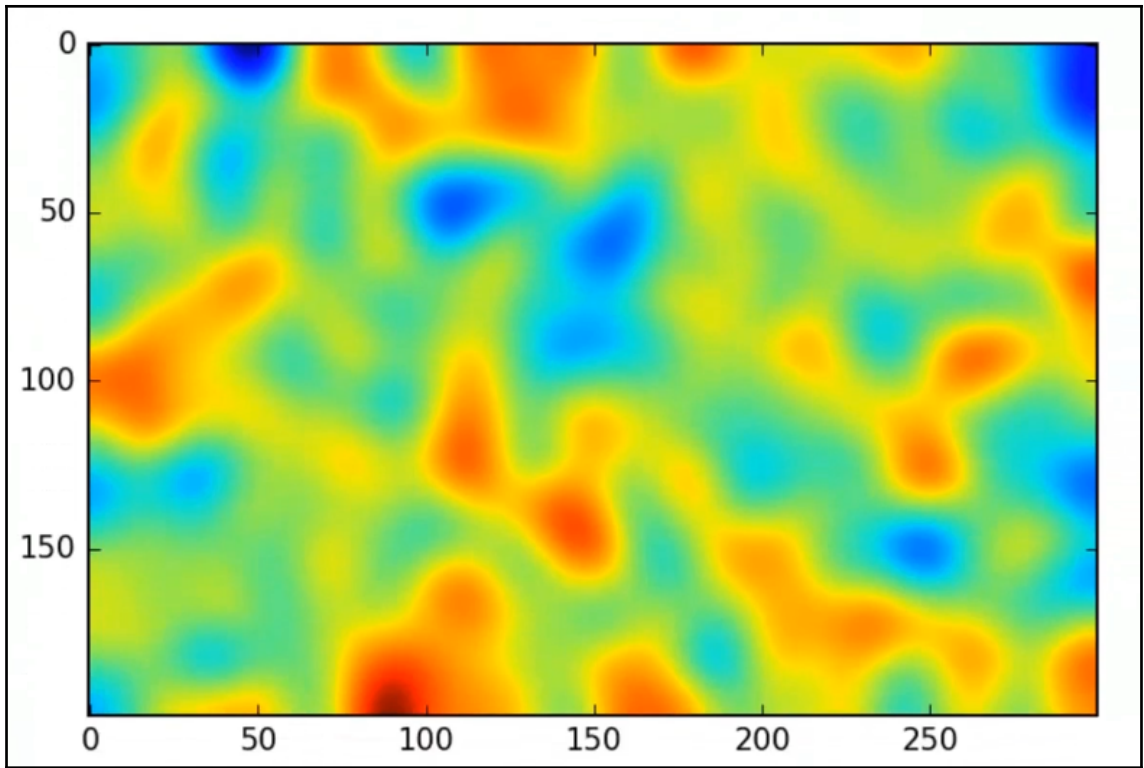


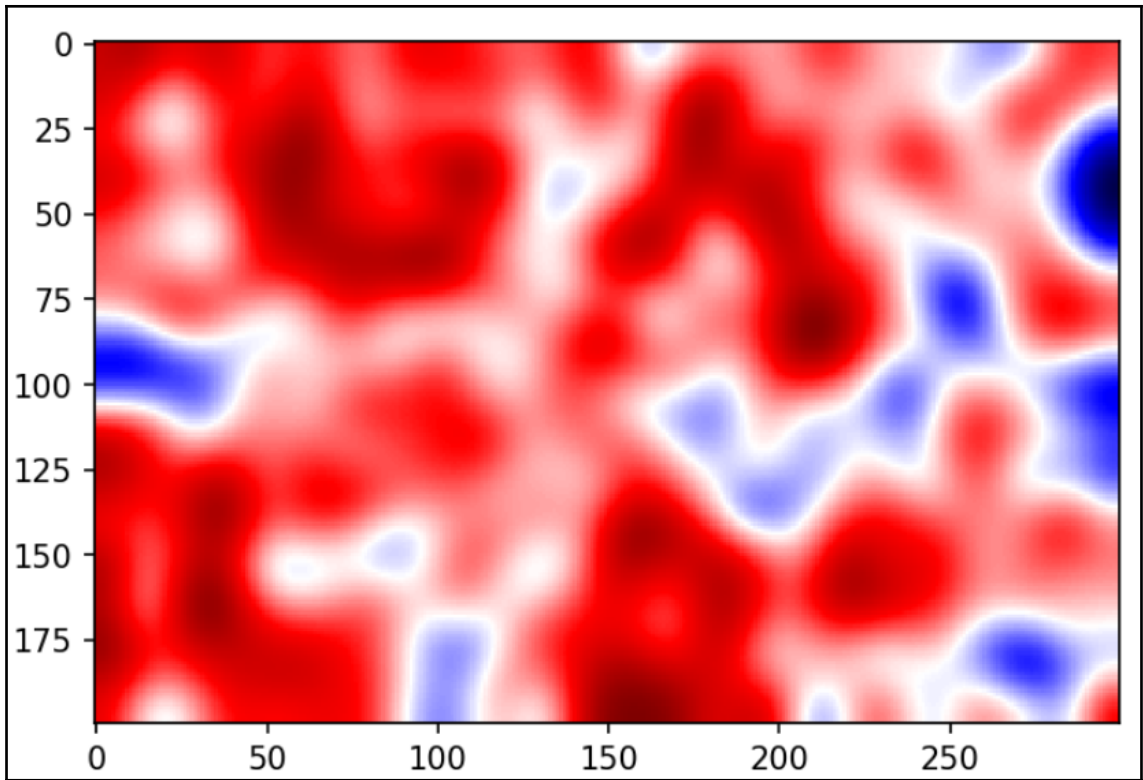


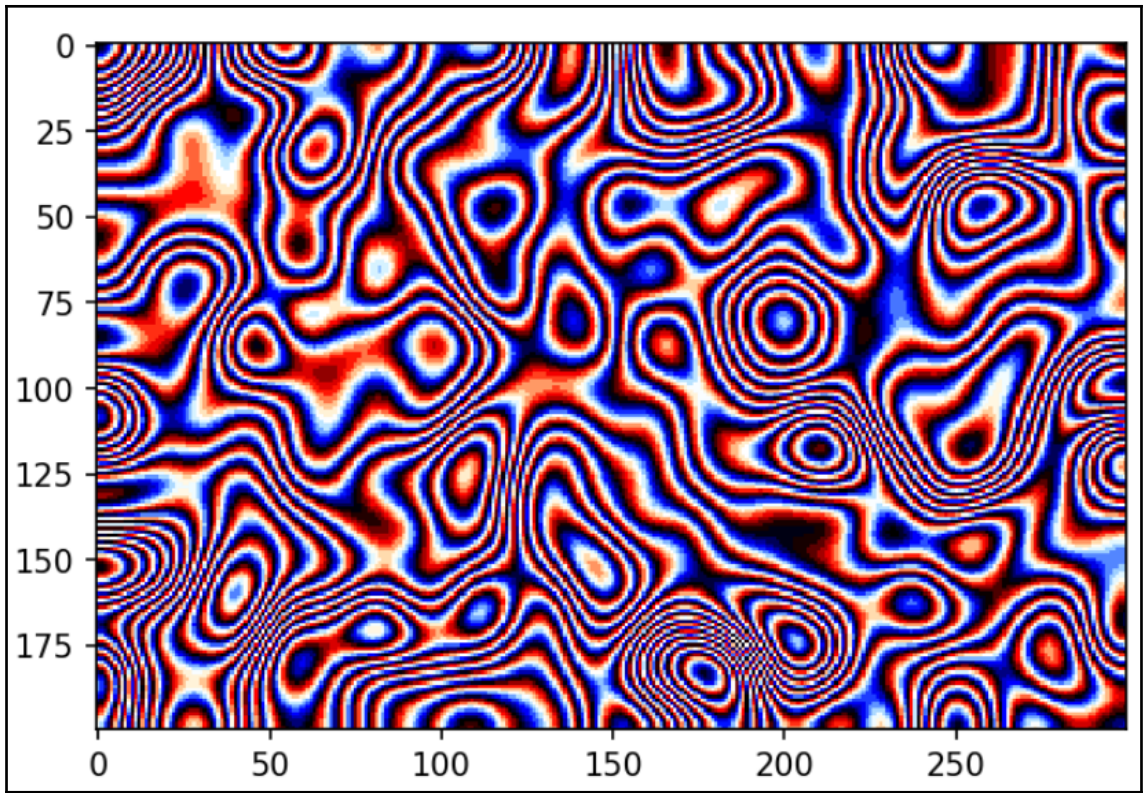


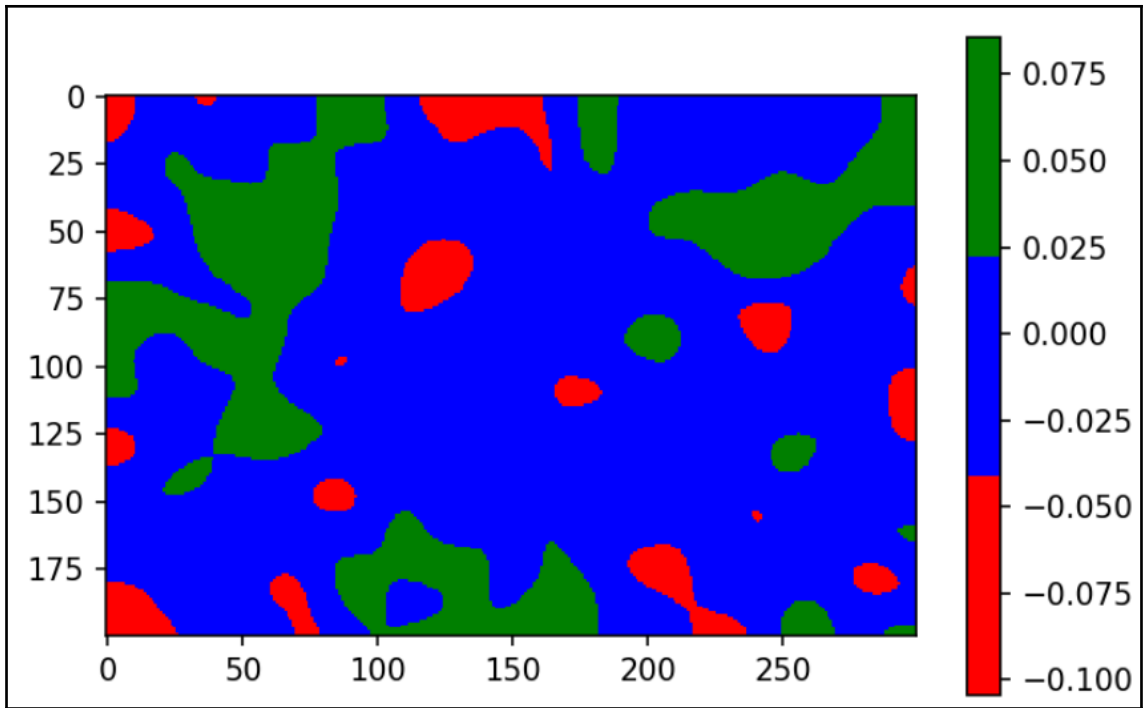


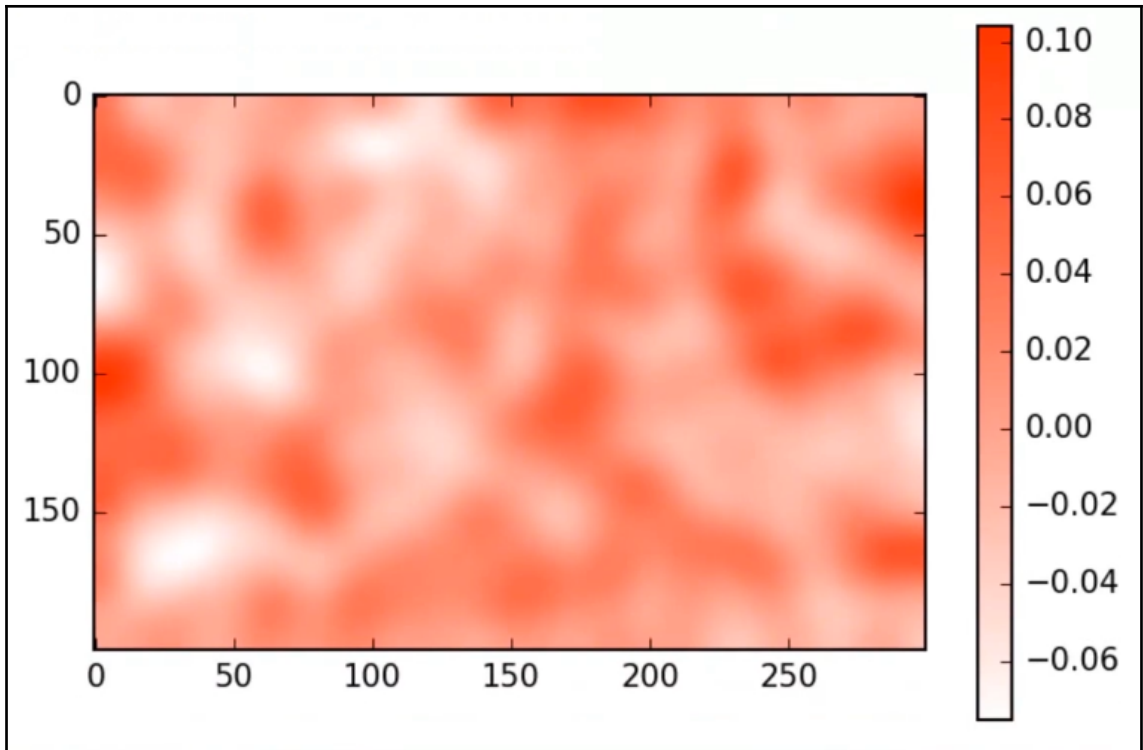




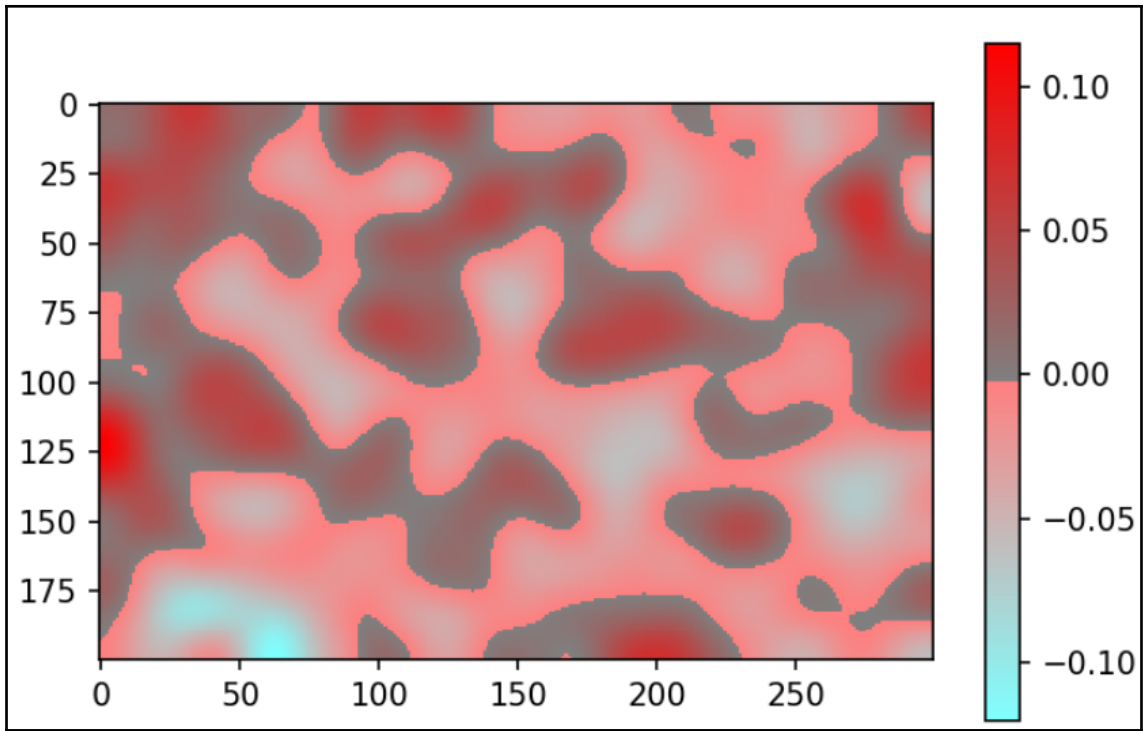


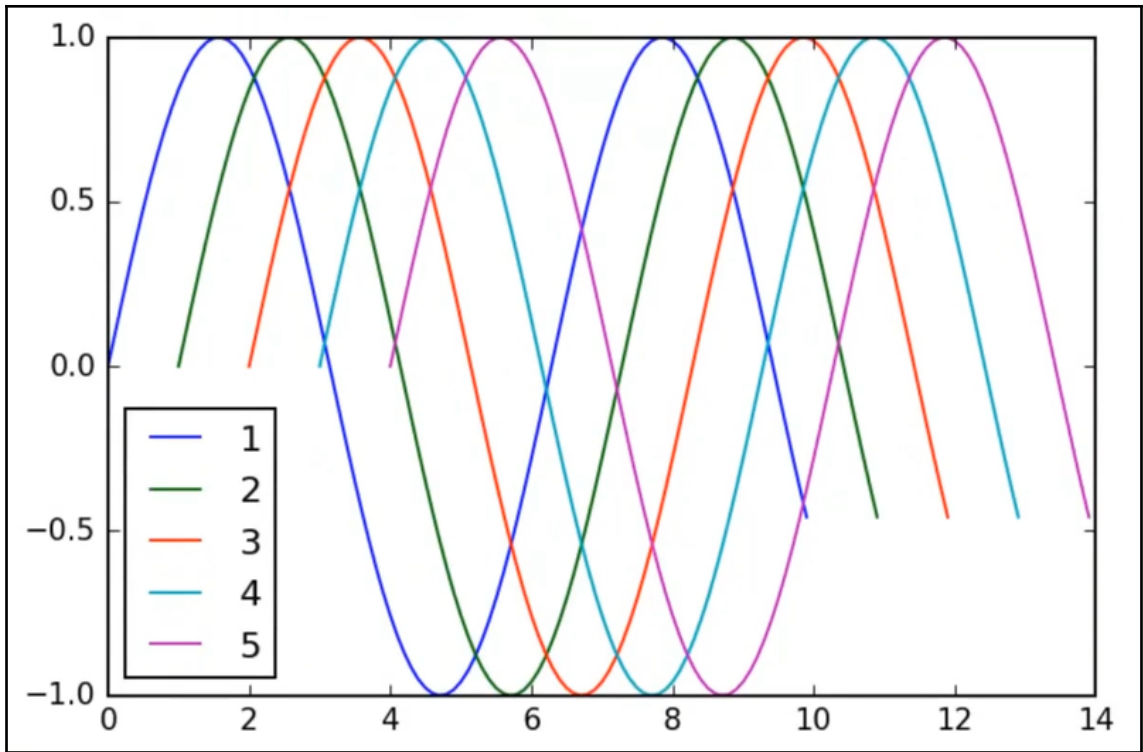


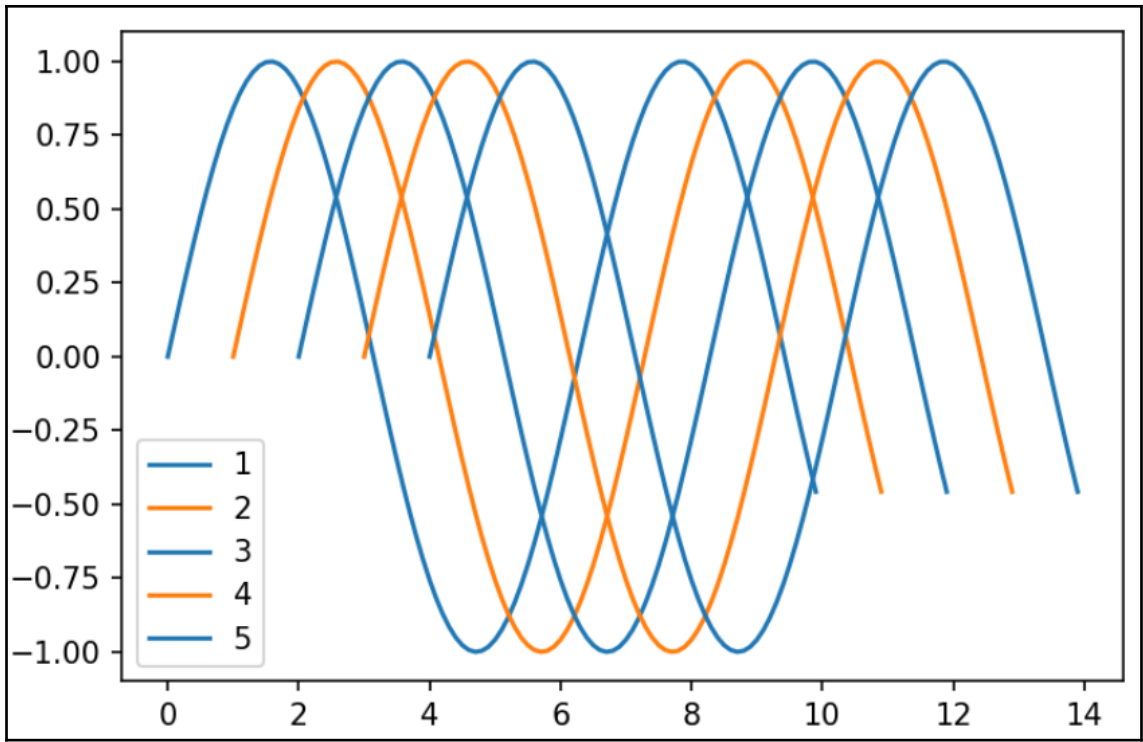


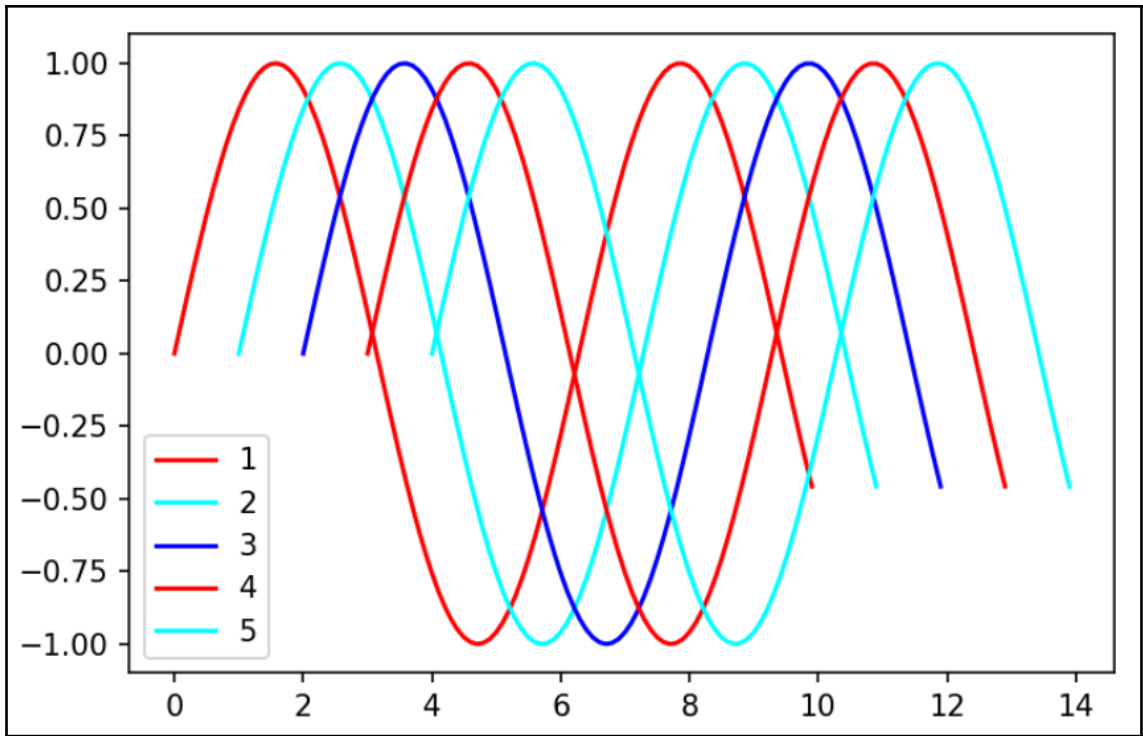


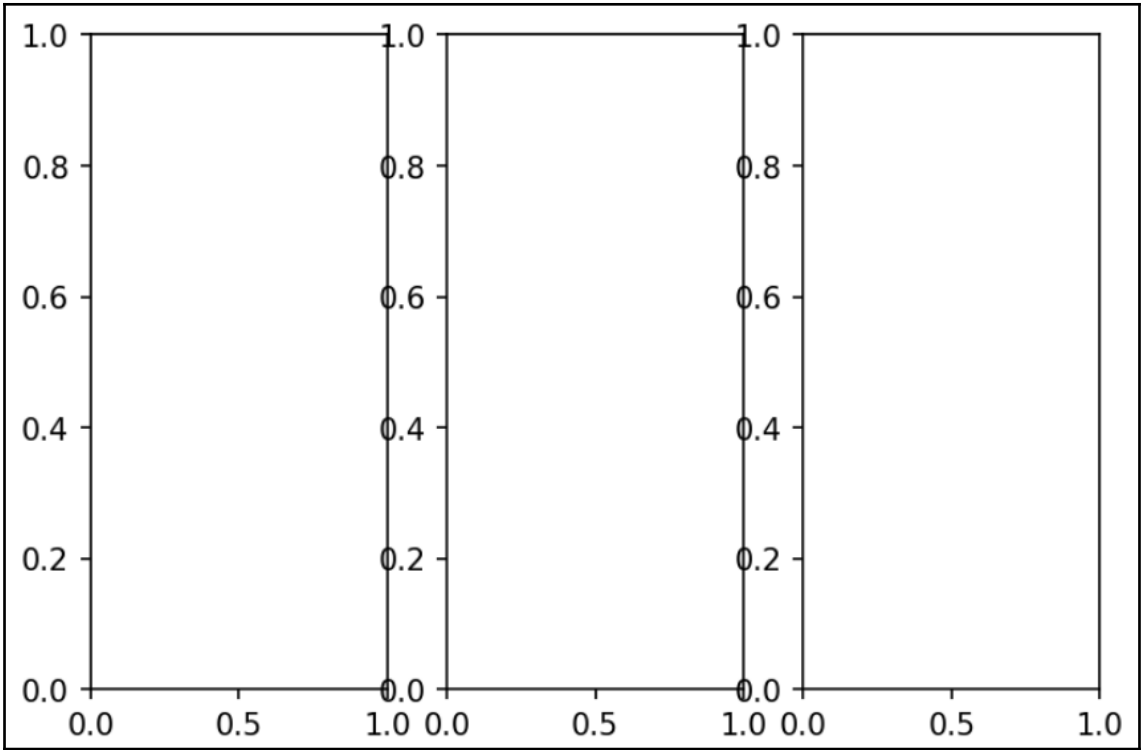


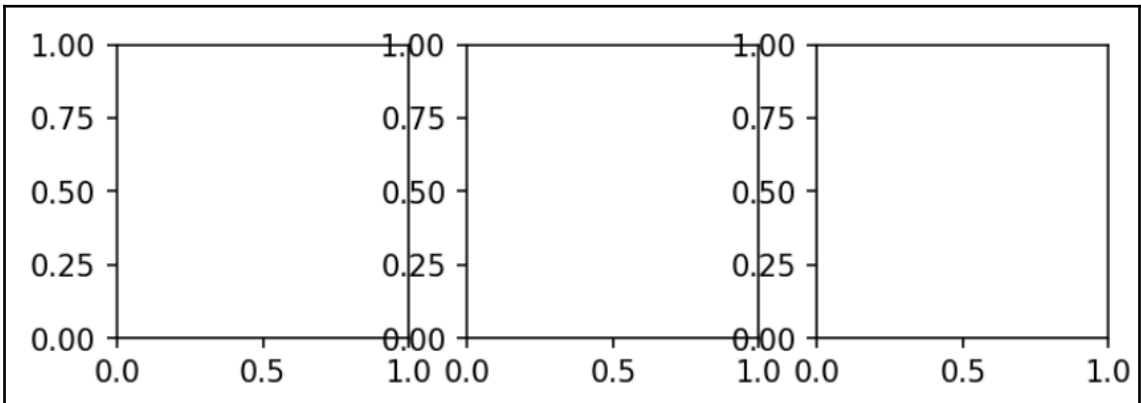
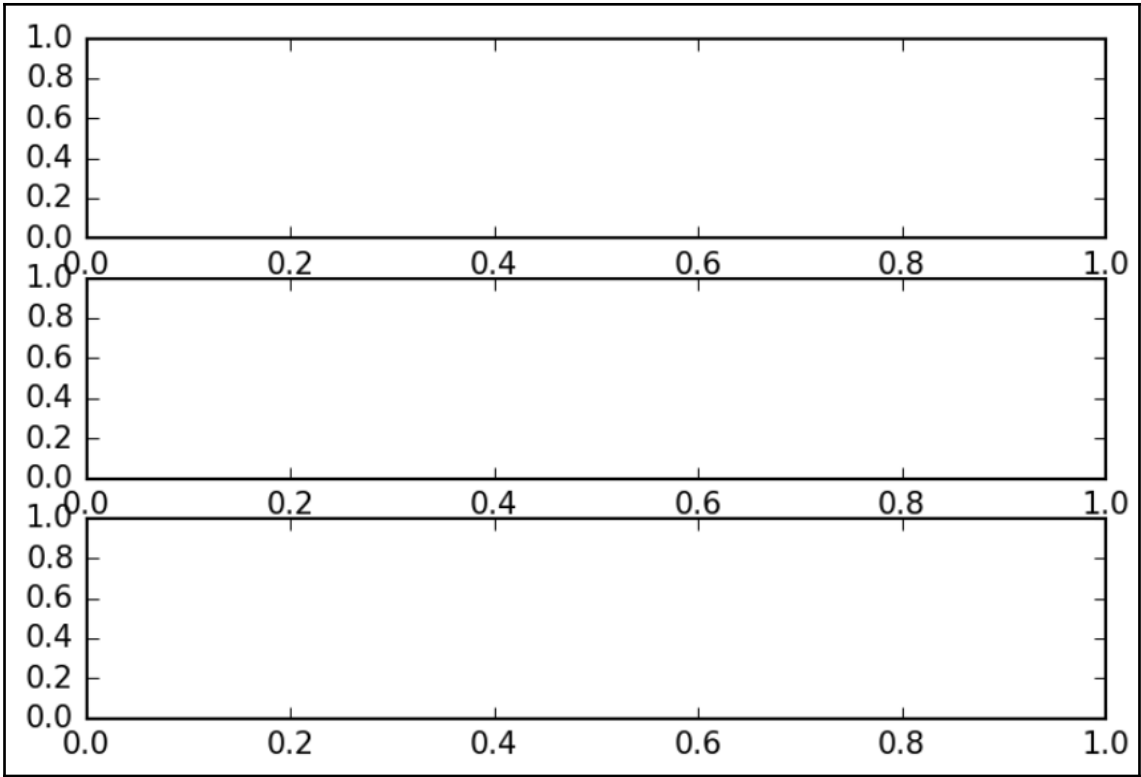


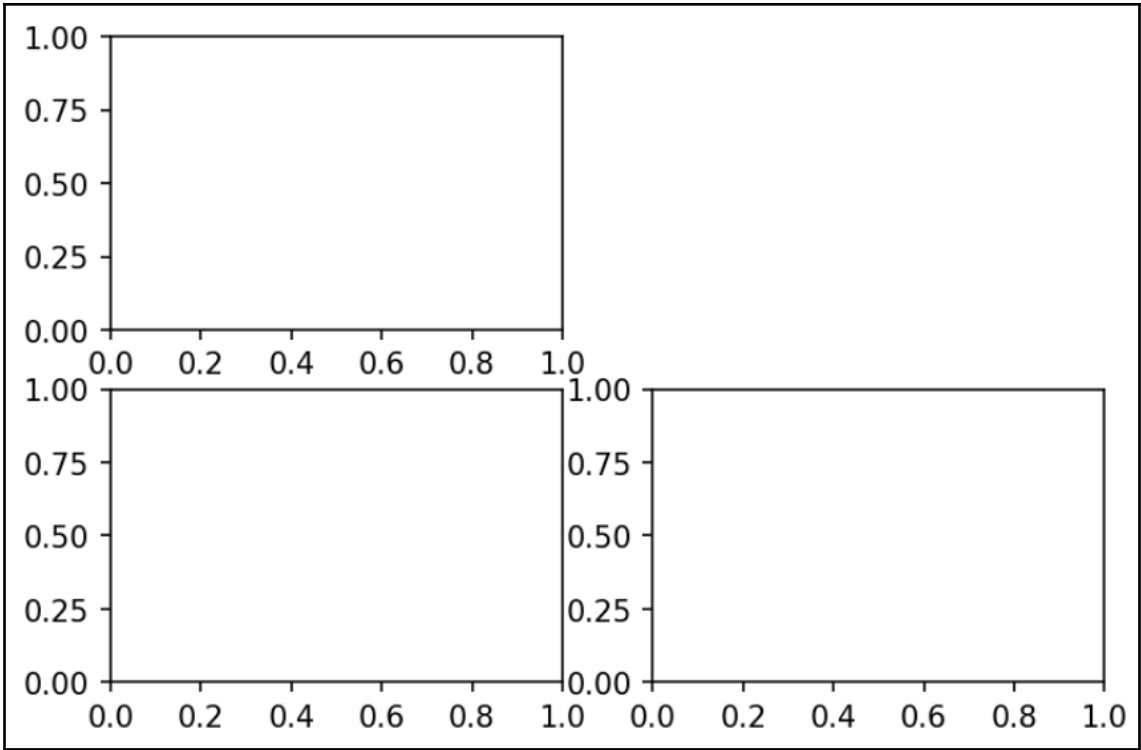


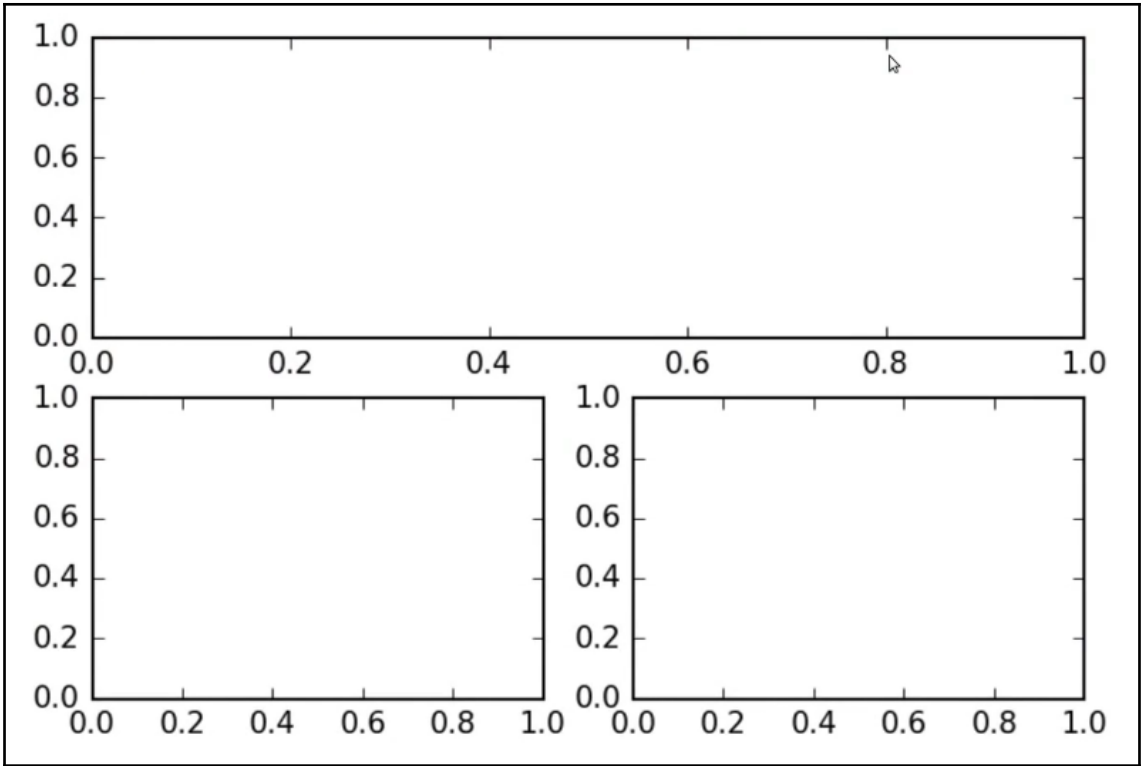




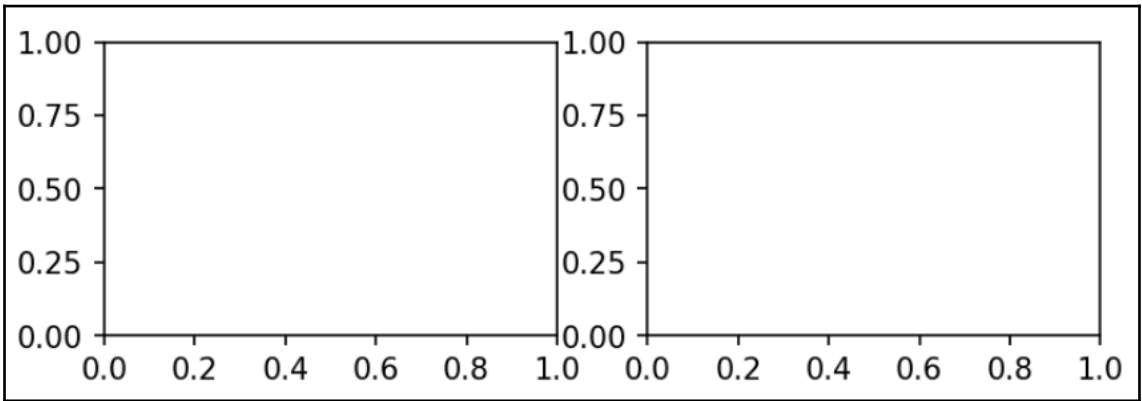
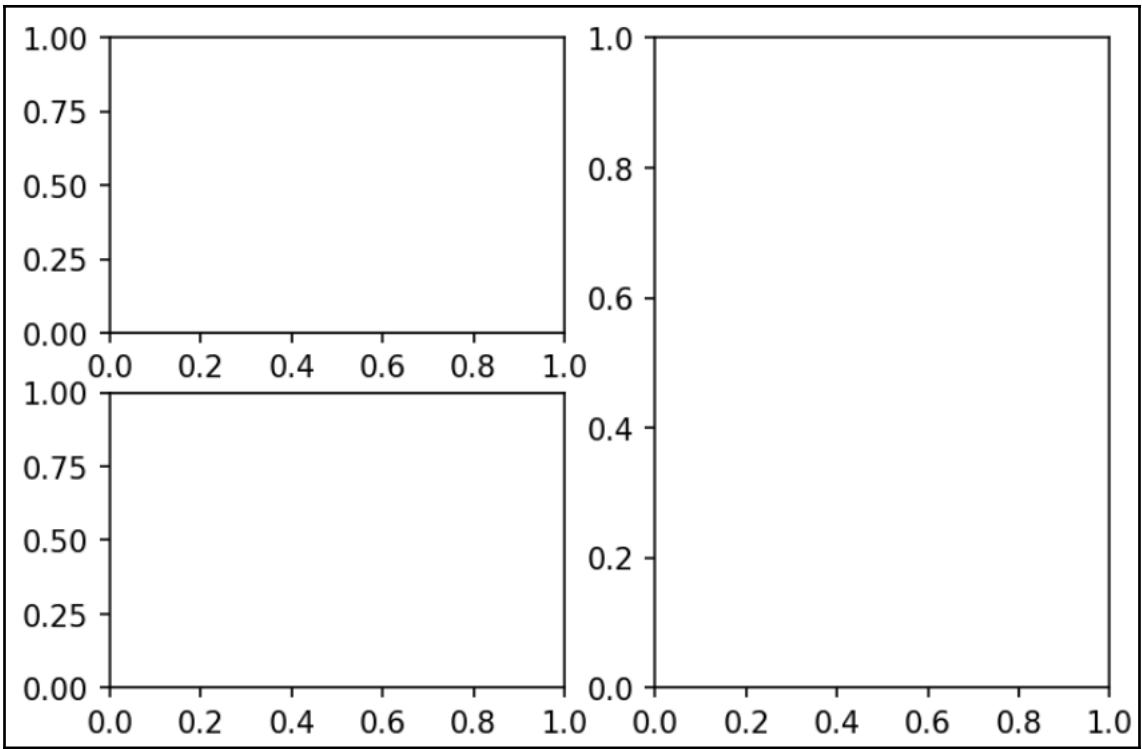


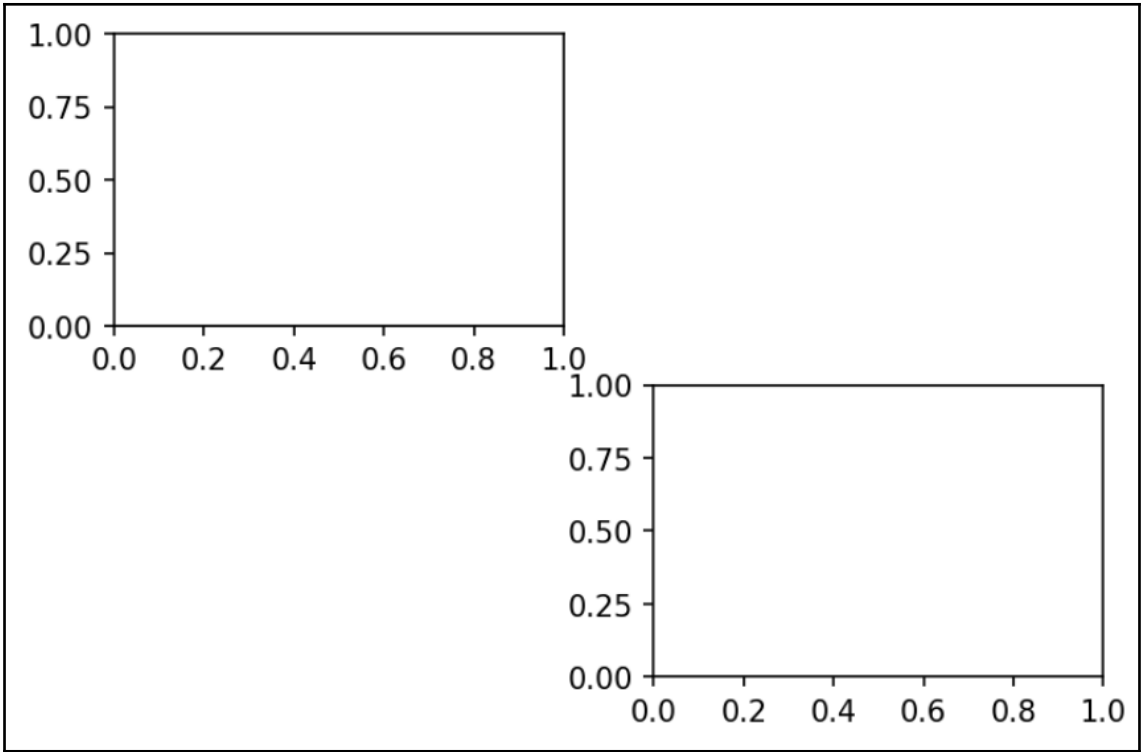


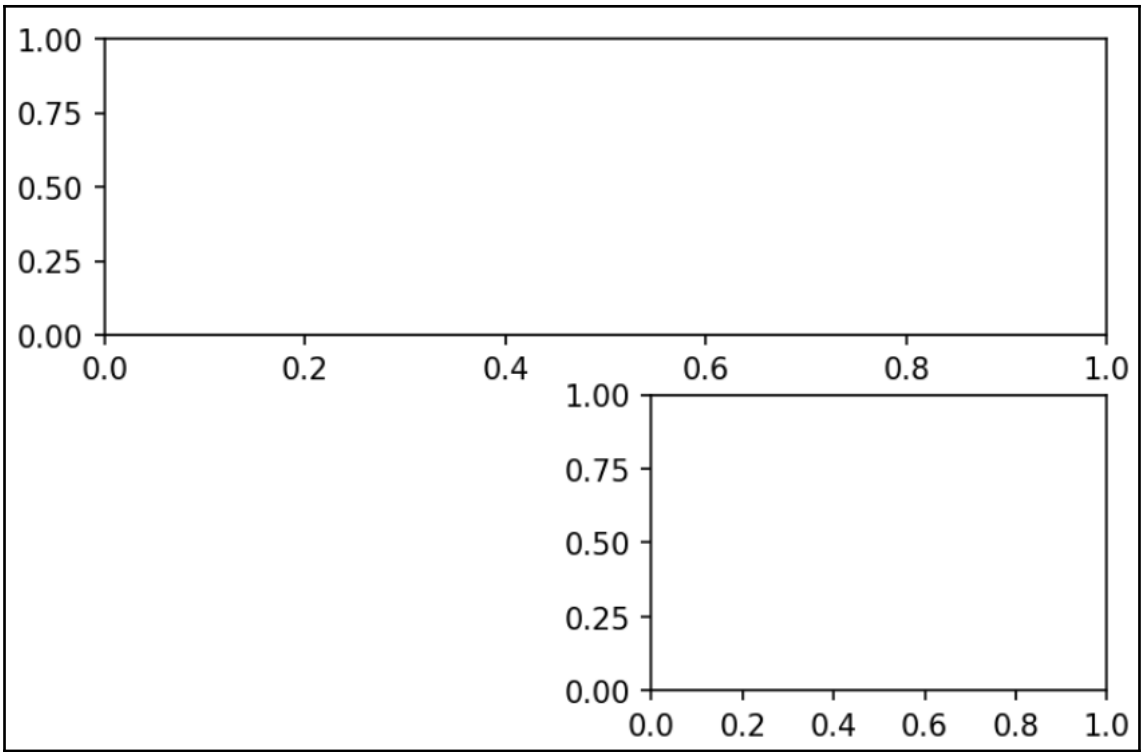


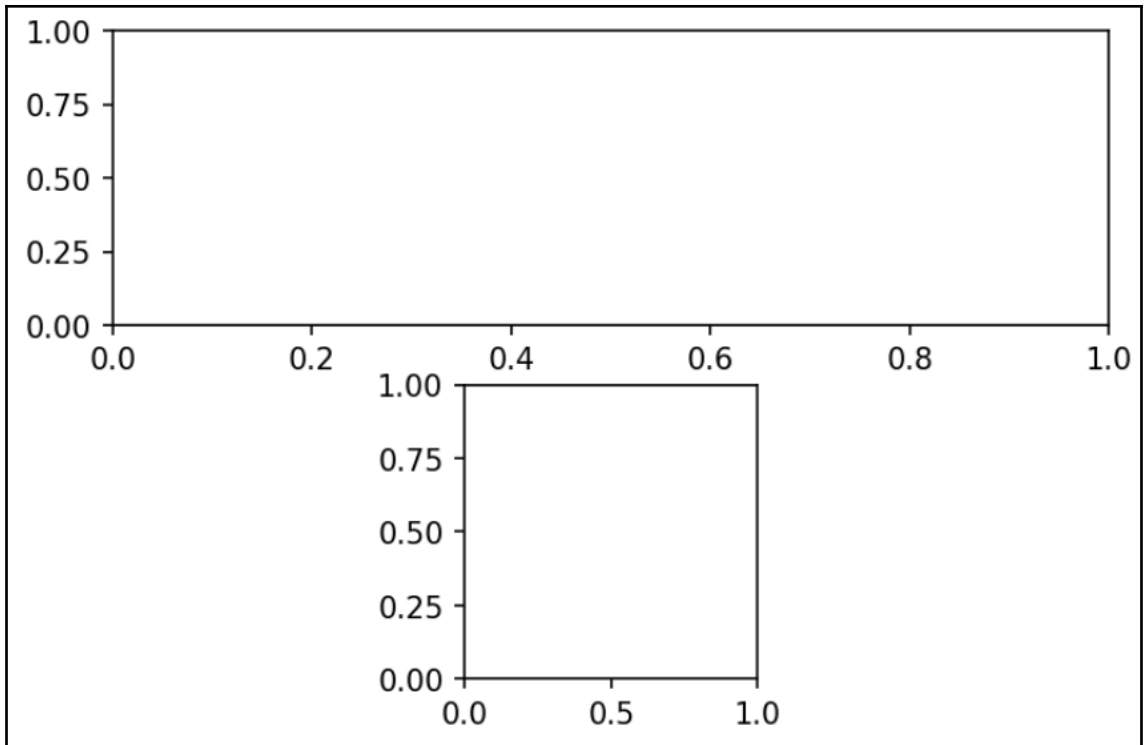


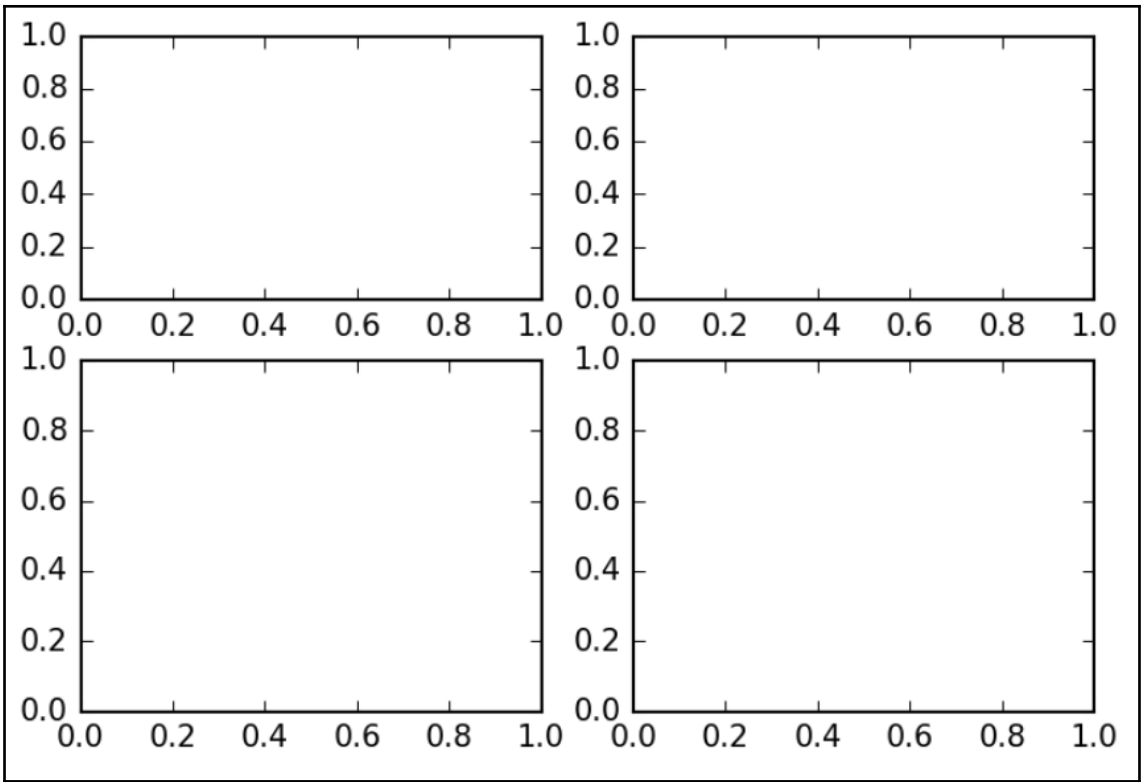


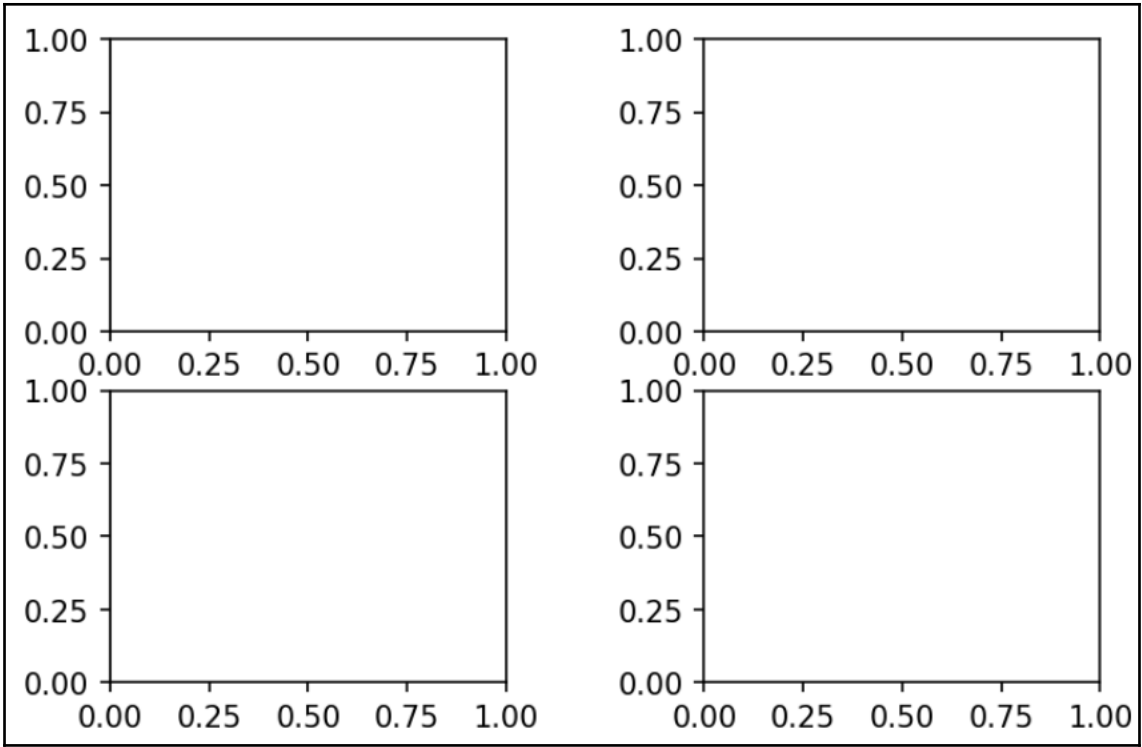


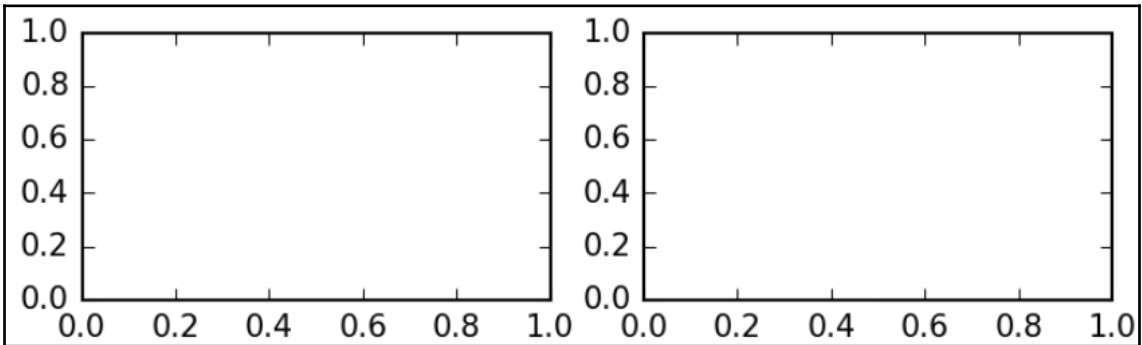
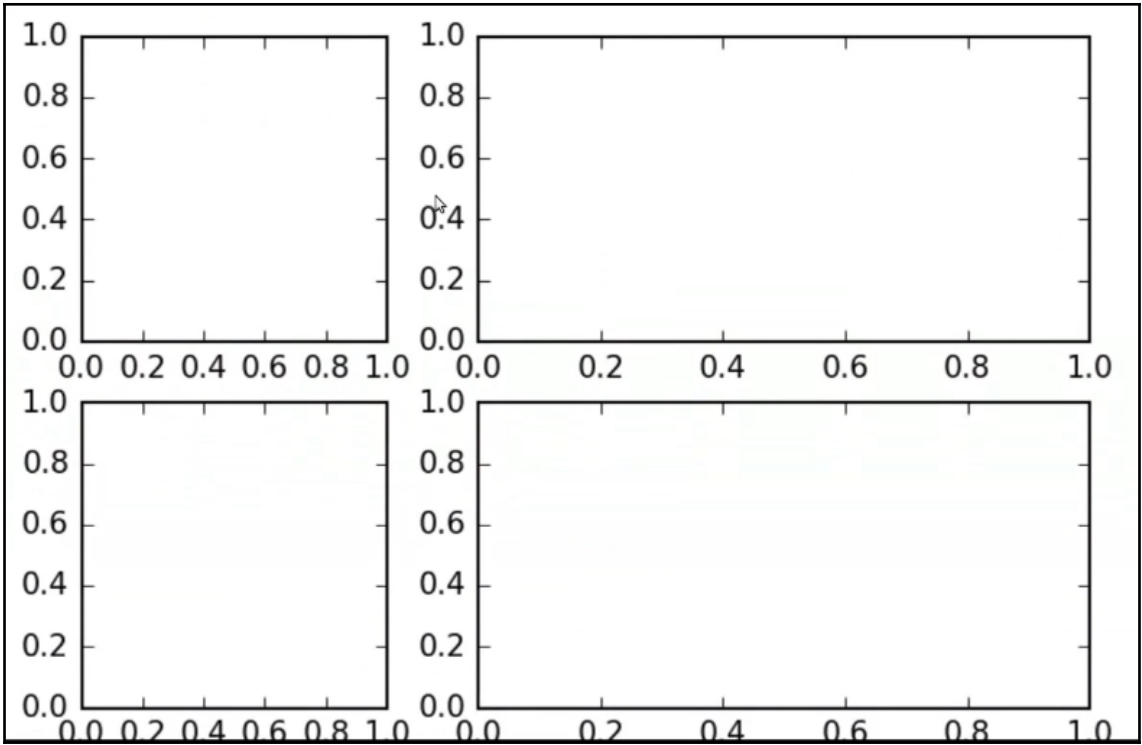


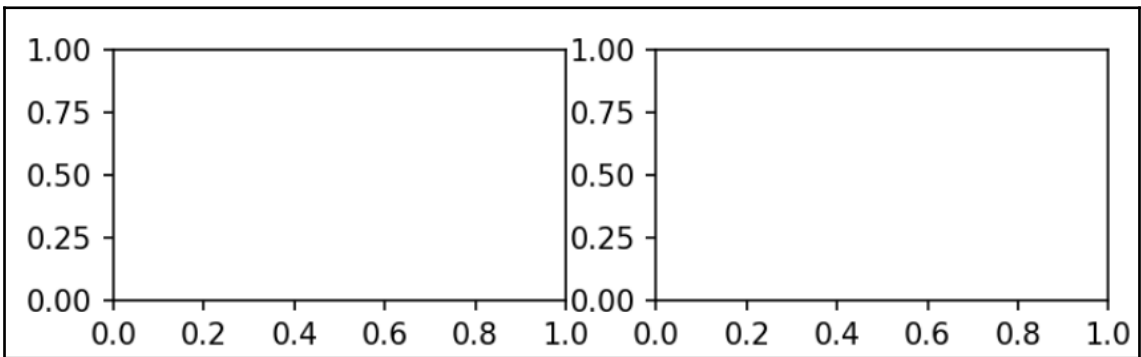
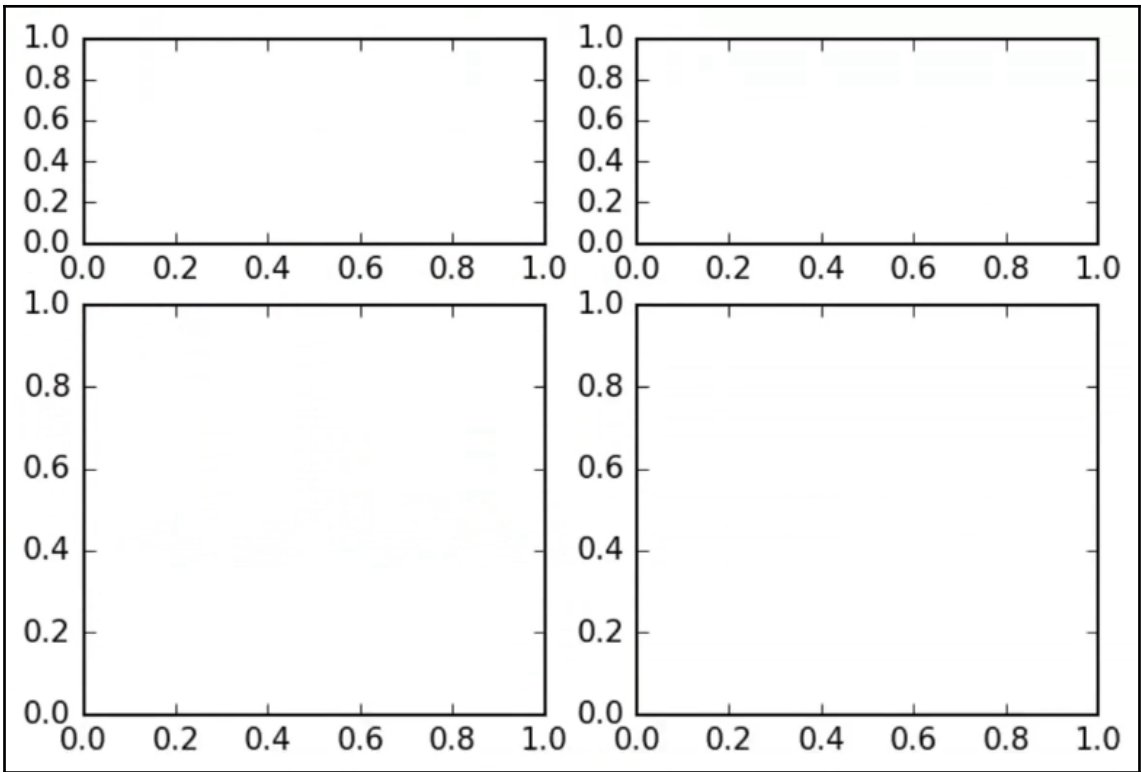














---

```
1  ### MATPLOTLIBRC FORMAT
2
3  # This is a sample matplotlib configuration file - you can find a copy
4  # of it on your system in
5  # site-packages/matplotlib/mpl-data/matplotlibrc.  If you edit it
6  # there, please note that it will be overwritten in your next install.
7  # If you want to keep a permanent local copy that will not be
8  # overwritten, place it in the following location:
9  # unix/linux:
10 #     $HOME/.config/matplotlib/matplotlibrc or
11 #     $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
12 # other platforms:
13 #     $HOME/.matplotlib/matplotlibrc
14 #
15 # See http://matplotlib.org/users/customizing.html#the-matplotlibrc-file for
16 # more details on the paths which are checked for the configuration file.
17 #
18 # This file is best viewed in a editor which supports python mode
19 # syntax highlighting.  Blank lines, or lines starting with a comment
20 # symbol, are ignored, as are trailing comments.  Other lines must
21 # have the format
22 #     key : val # optional comment
23 #
24 # Colors: for the color values below, you can either use - a
25 # matplotlib color string, such as r, k, or b - an rgb tuple, such as
```

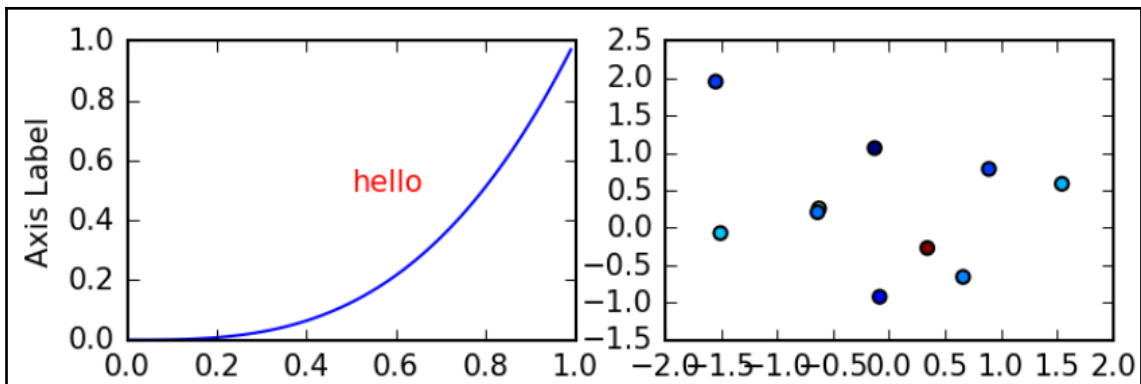
```
133 # The font.stretch property has 11 values: ultra-condensed,
134 # extra-condensed, condensed, semi-condensed, normal, semi-expanded,
135 # expanded, extra-expanded, ultra-expanded, wider, and narrower.  This
136 # property is not currently implemented.
137 #
138 # The font.size property is the default font size for text, given in pts.
139 # 12pt is the standard value.
140 #
141 #font.family      : sans-serif
142 #font.style       : normal
143 #font.variant     : normal
144 #font.weight      : medium
145 #font.stretch     : normal
```

```
165 ### LaTeX customizations. See http://wiki.scipy.org/Cookbook/Matplotlib/UsingTex
166 #text.usetex      : False # use latex for all text handling. The following fonts
167                  # are supported through the usual rc parameter settings:
168                  # new century schoolbook, bookman, times, palatino,
169                  # zapf chancery, charter, serif, sans-serif, helvetica,
170                  # avant garde, courier, monospace, computer modern roman,
171                  # computer modern sans serif, computer modern typewriter
172                  # If another font is desired which can loaded using the
173                  # LaTeX \usepackage command, please inquire at the
174                  # matplotlib mailing list
175 #text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
176                  # unicode strings.
177 #text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
```

```
419 # tk backend params
420 #tk.window_focus  : False # Maintain shell focus for TkAgg
421
422 # ps backend params
423 #ps.papersize     : letter # auto, letter, legal, ledger, A0-A10, B0-B10
424 #ps.useafm        : False # use of afm fonts, results in small files
425 #ps.usedistiller  : False # can be: None, ghostscript or xpdf
426                  # Experimental: may produce smaller files.
427                  # xpdf intended for production of publication quality files,
428                  # but requires ghostscript, xpdf and ps2eps
429 #ps.distiller.res : 6000 # dpi
430 #ps.fonttype      : 3 # Output Type 3 (Type3) or Type 42 (TrueType)
431
432 # pdf backend params
433 #pdf.compression  : 6 # integer from 0 to 9
434                  # 0 disables compression (good for debugging)
435 #pdf.fonttype     : 3 # Output Type 3 (Type3) or Type 42 (TrueType)
436
437 # svg backend params
438 #svg.image_inline : True # write raster image data directly into the svg file
```

```
437 # svg backend params
438 #svg.image_inline : True # write raster image data directly into the svg file
439 #svg.image_noscale : False # suppress scaling of raster data embedded in SVG
440 #svg.fonttype : 'path' # How to handle SVG fonts:
441 # 'none': Assume fonts are installed on the machine where the SVG will be viewed.
442 # 'path': Embed characters as paths -- supported by most SVG renderers
443 # 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
444 # Opera and Safari
```

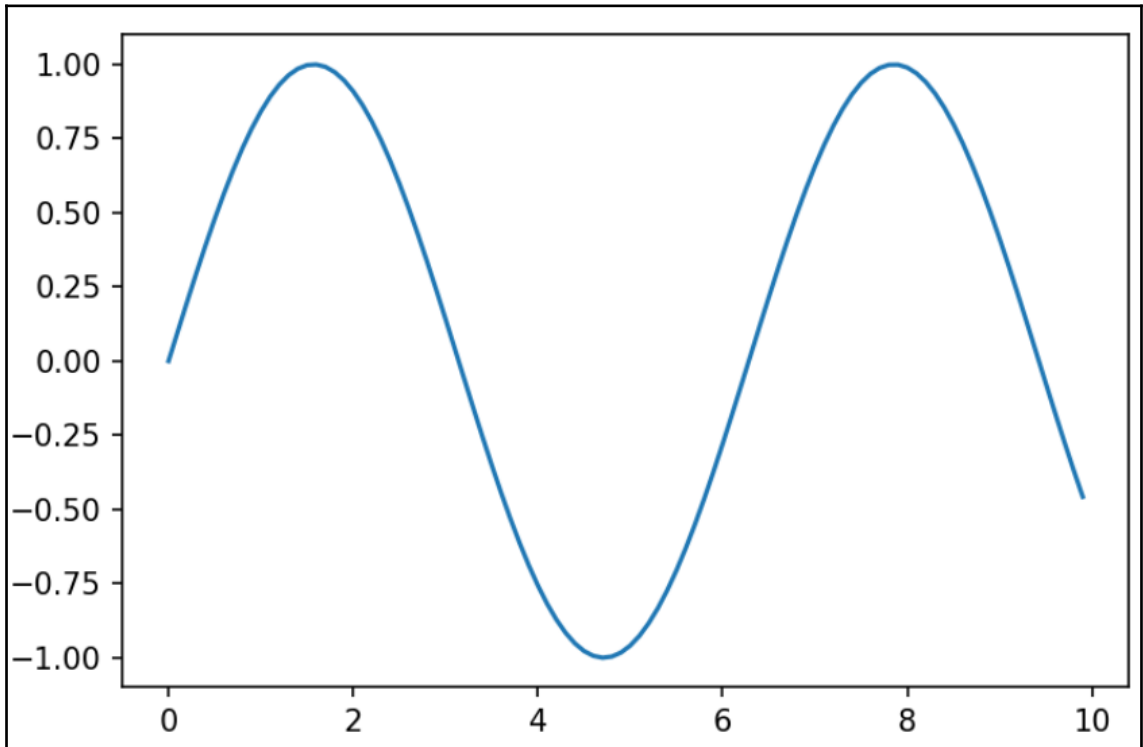
```
# The default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo
# CocoaAgg MacOSX Qt4Agg Qt5Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG
# Template.
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'.
backend      : TkAgg
```

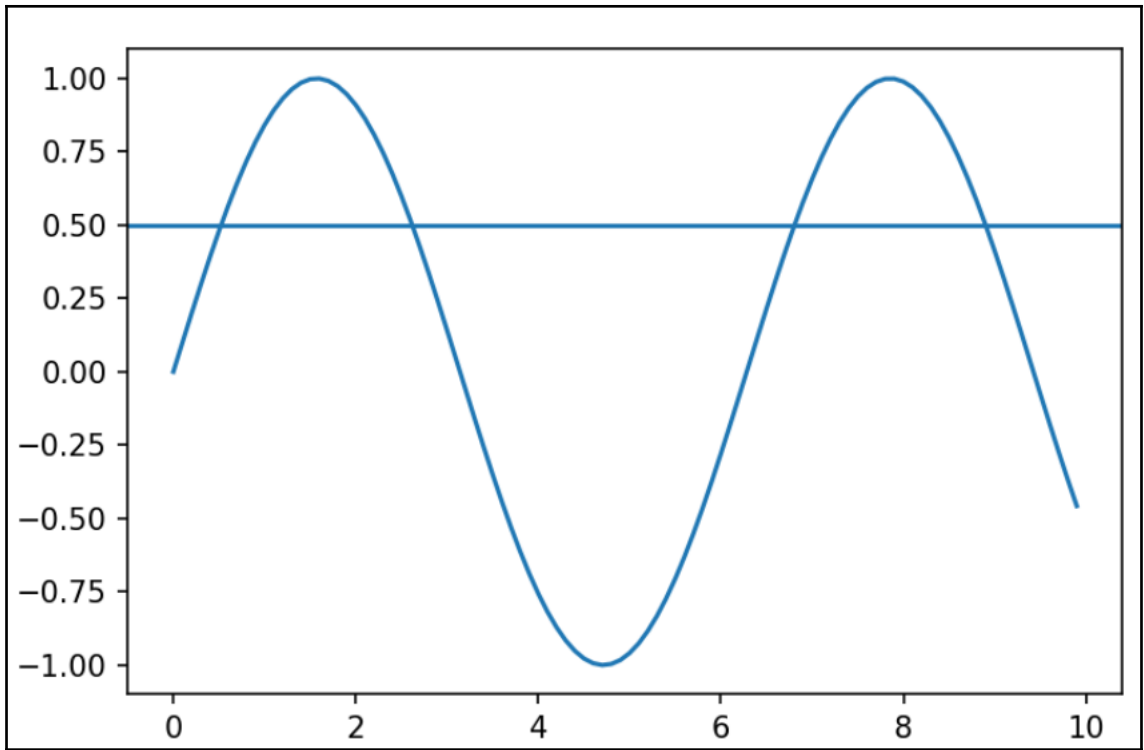


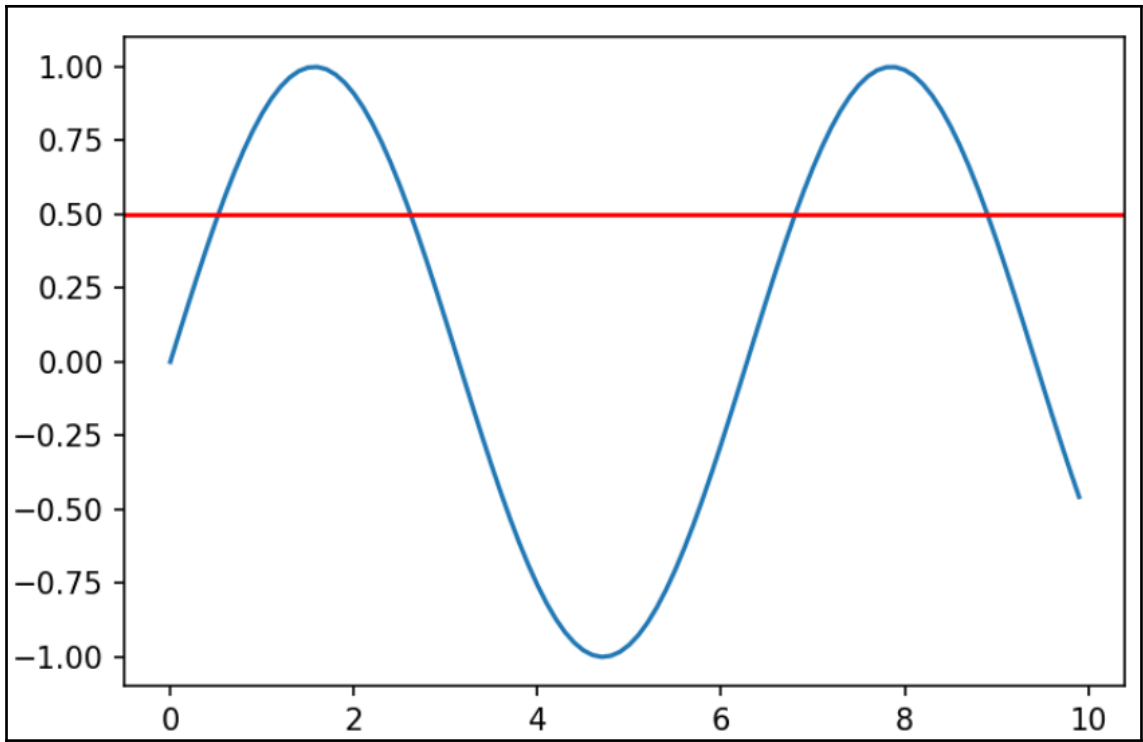
```
1  ### MATPLOTLIBRC FORMAT
2
3  # This is a sample matplotlib configuration file - you can find a copy
4  # of it on your system in
5  # site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
6  # there, please note that it will be overwritten in your next install.
7  # If you want to keep a permanent local copy that will not be
8  # overwritten, place it in the following location:
9  # unix/linux:
10 #     $HOME/.config/matplotlib/matplotlibrc or
11 #     $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
12 # other platforms:
13 #     $HOME/.matplotlib/matplotlibrc
```

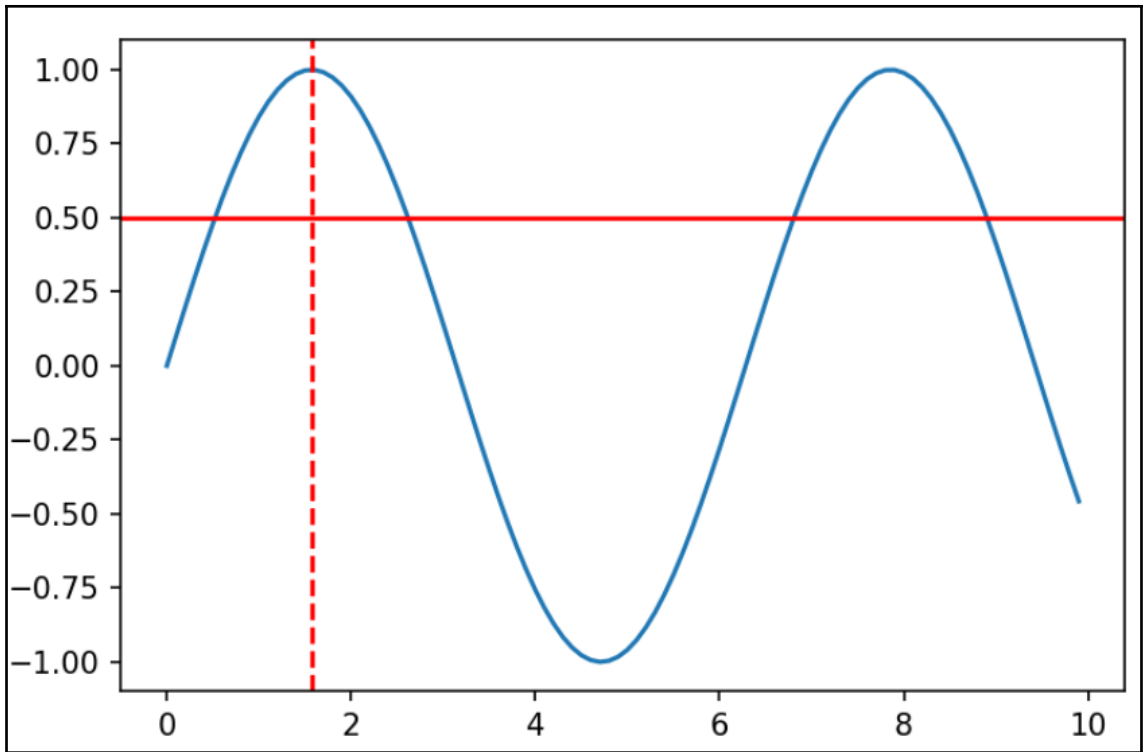
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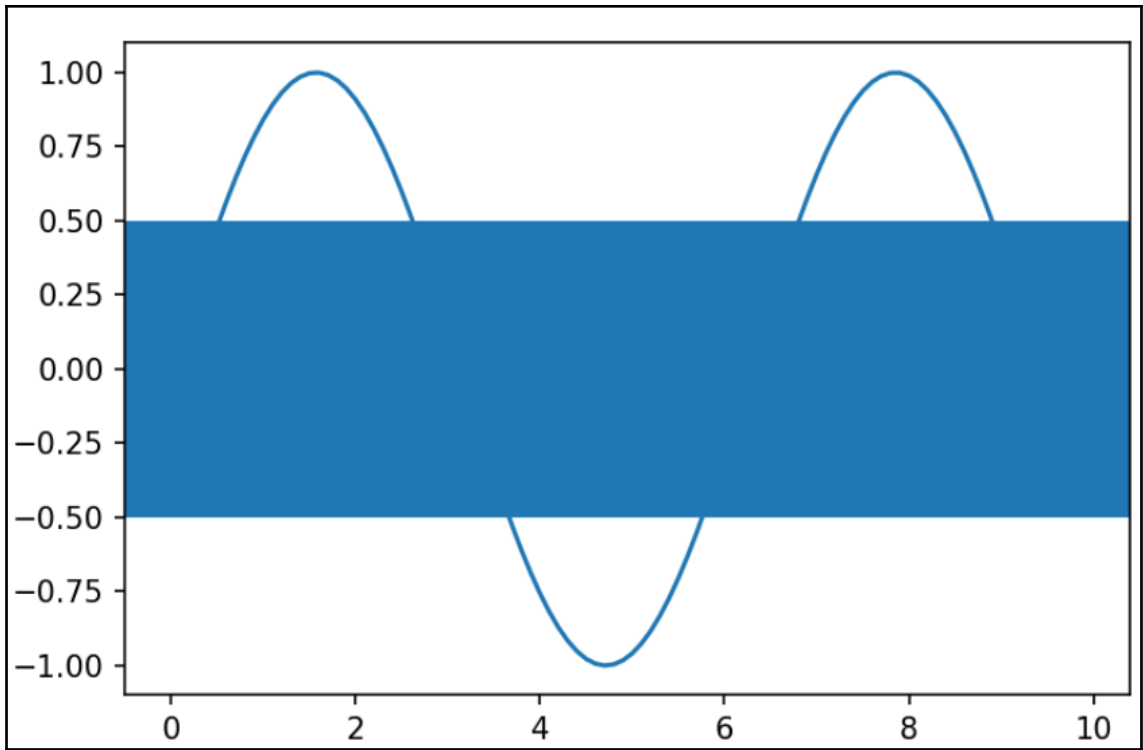
## Chapter 2: Drawing on Plots



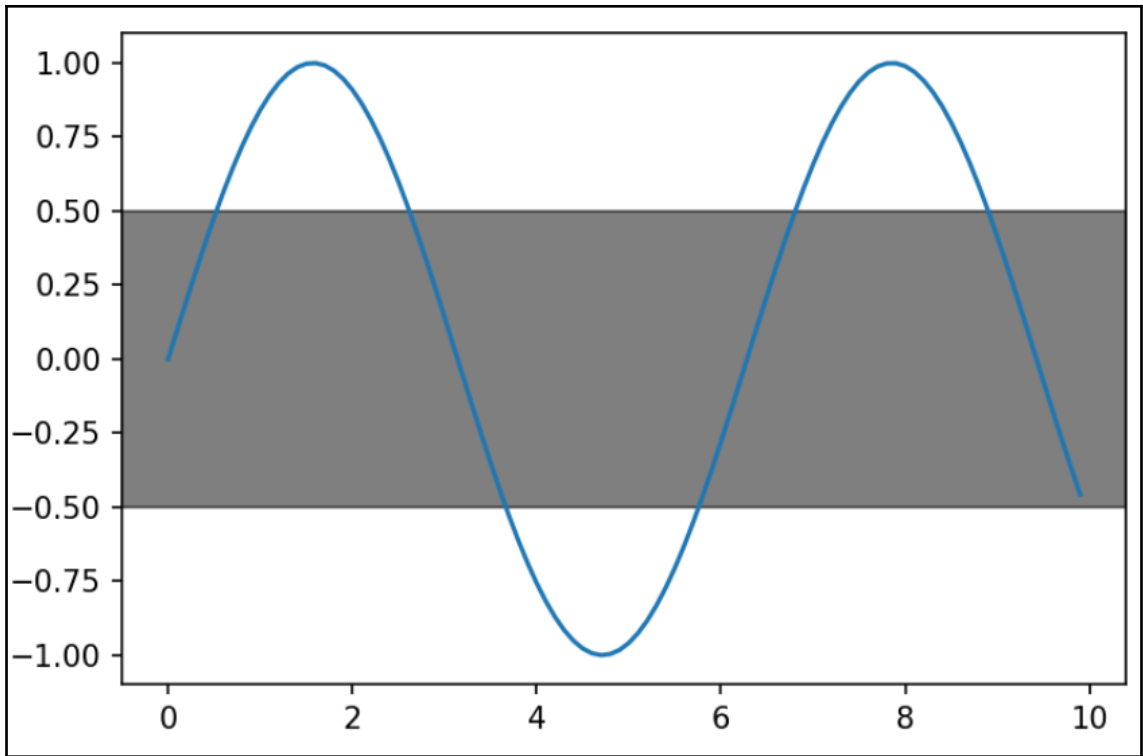


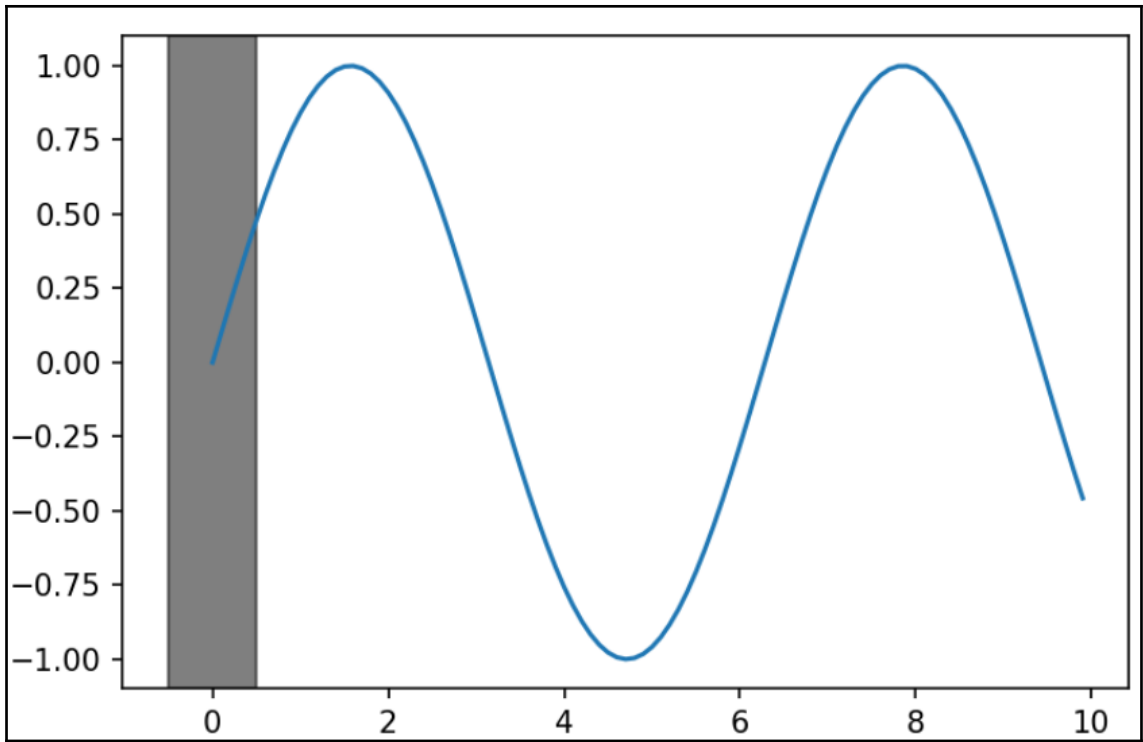


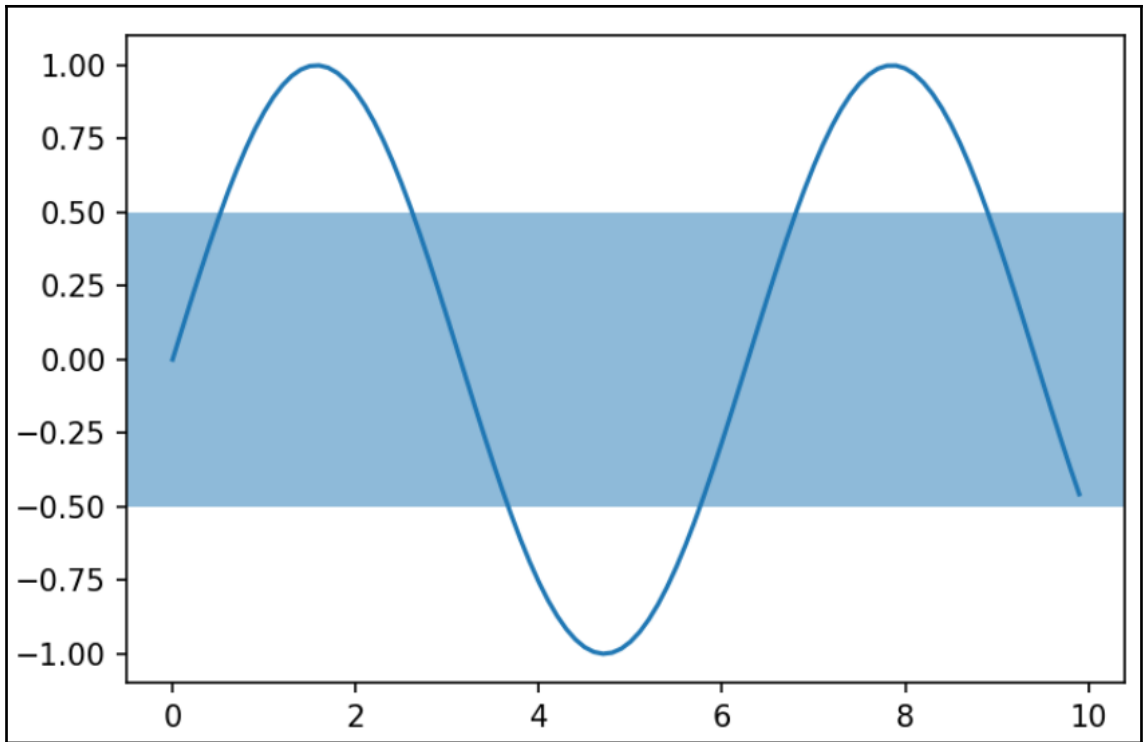


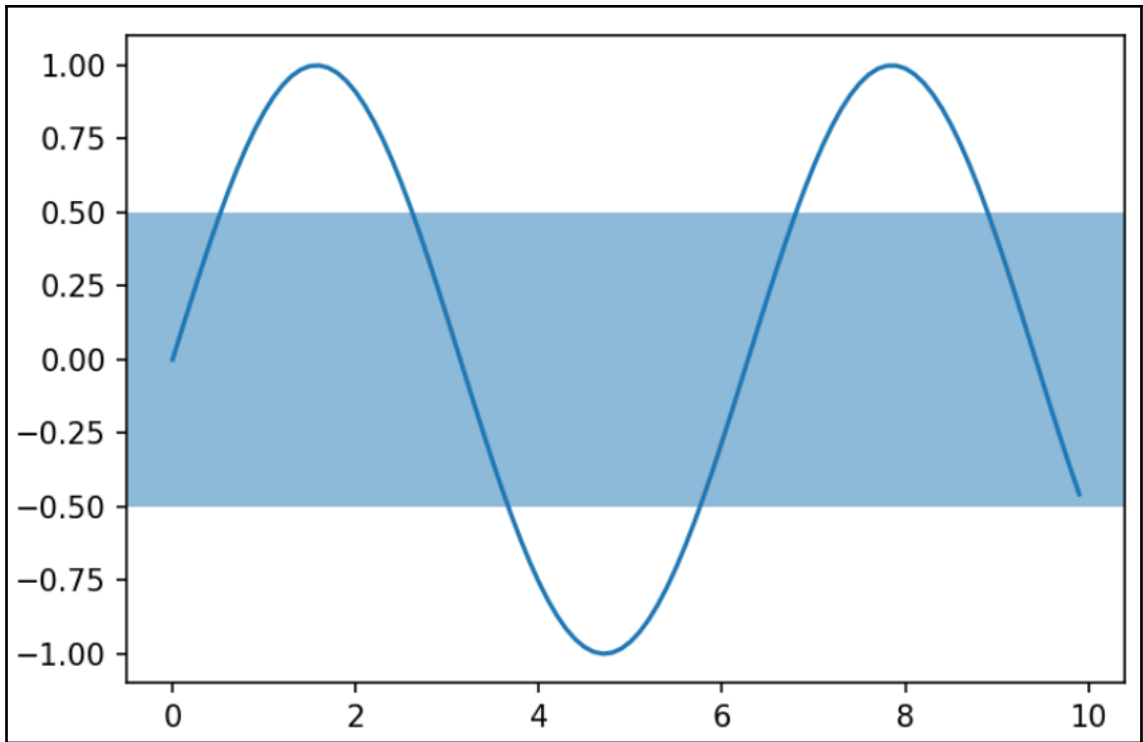


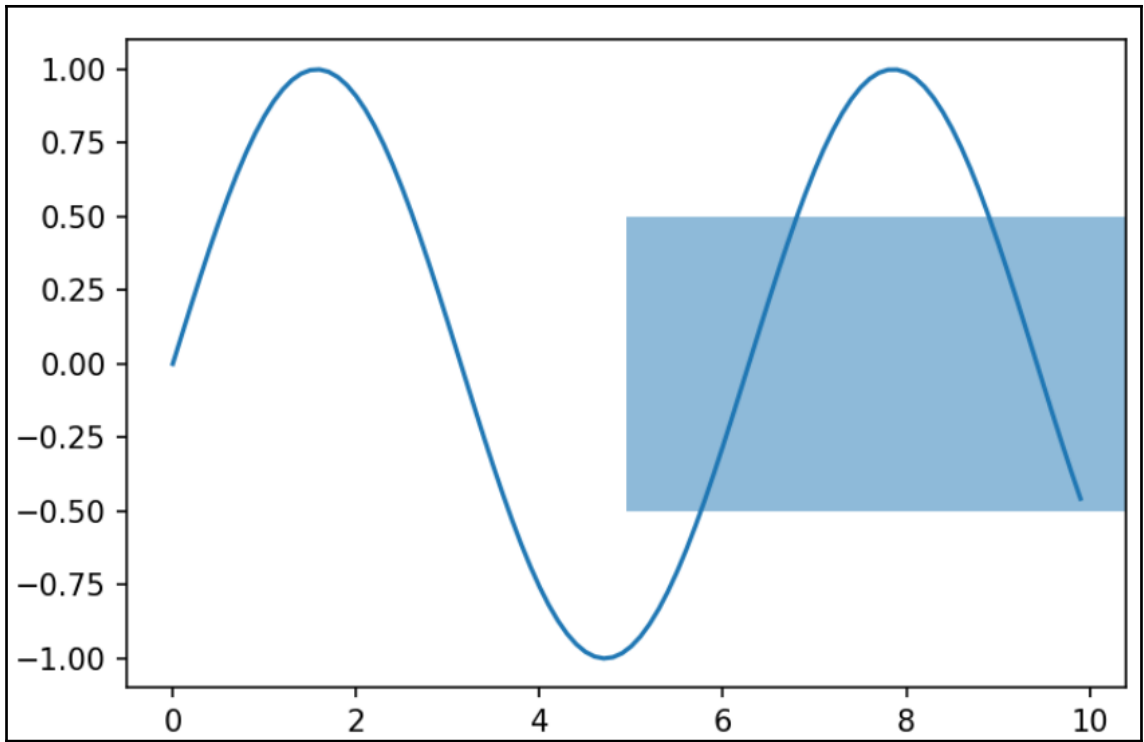


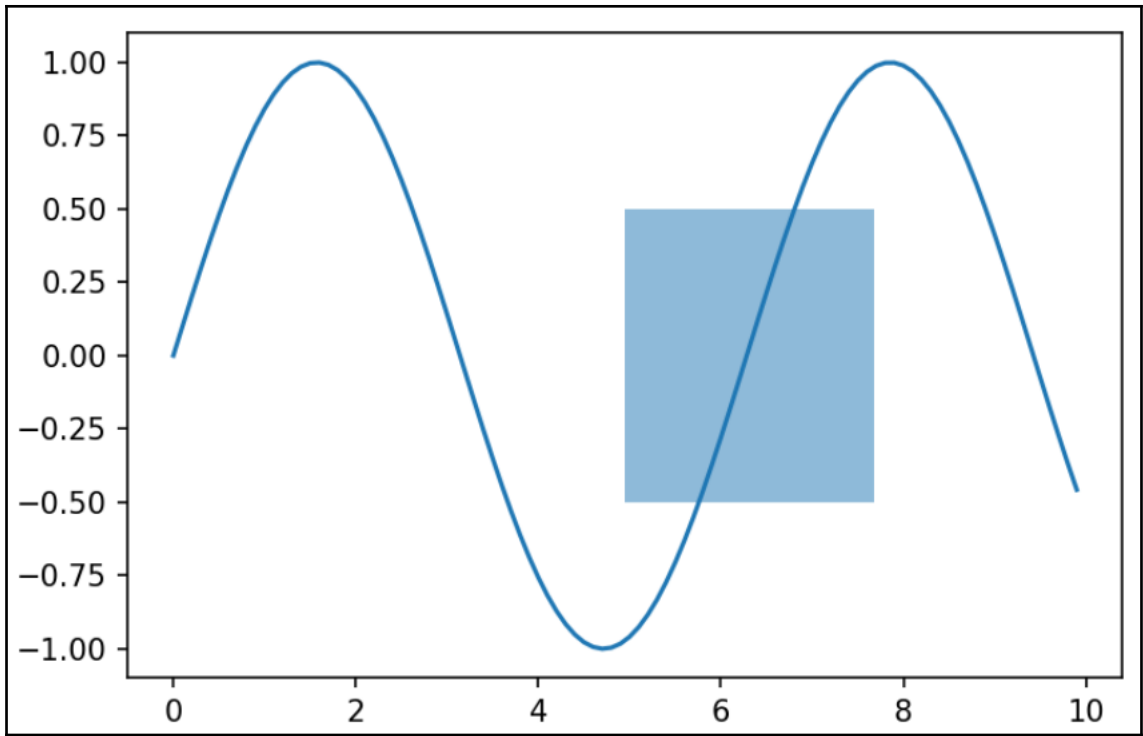


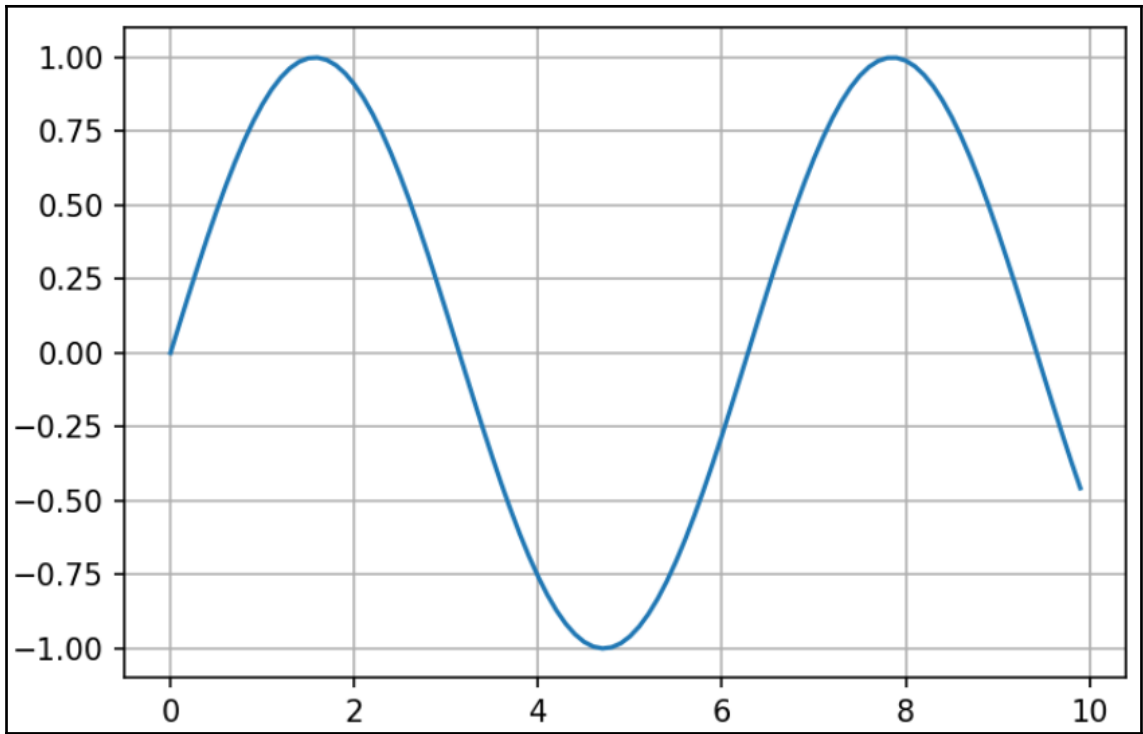


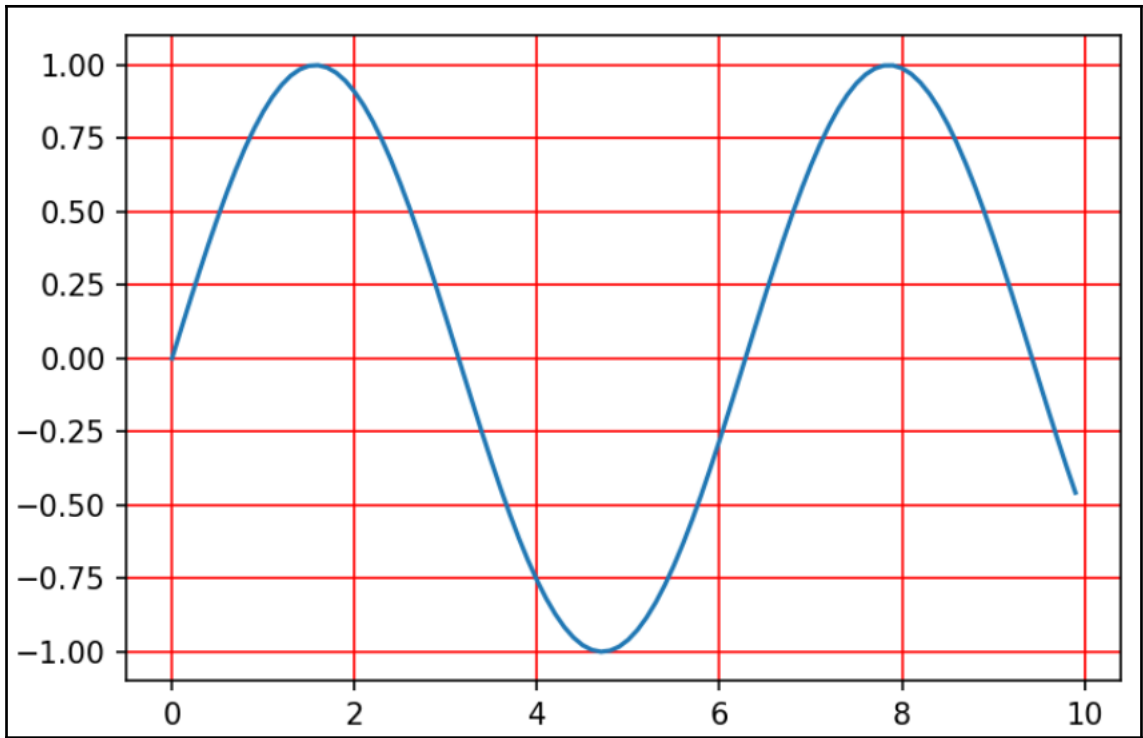




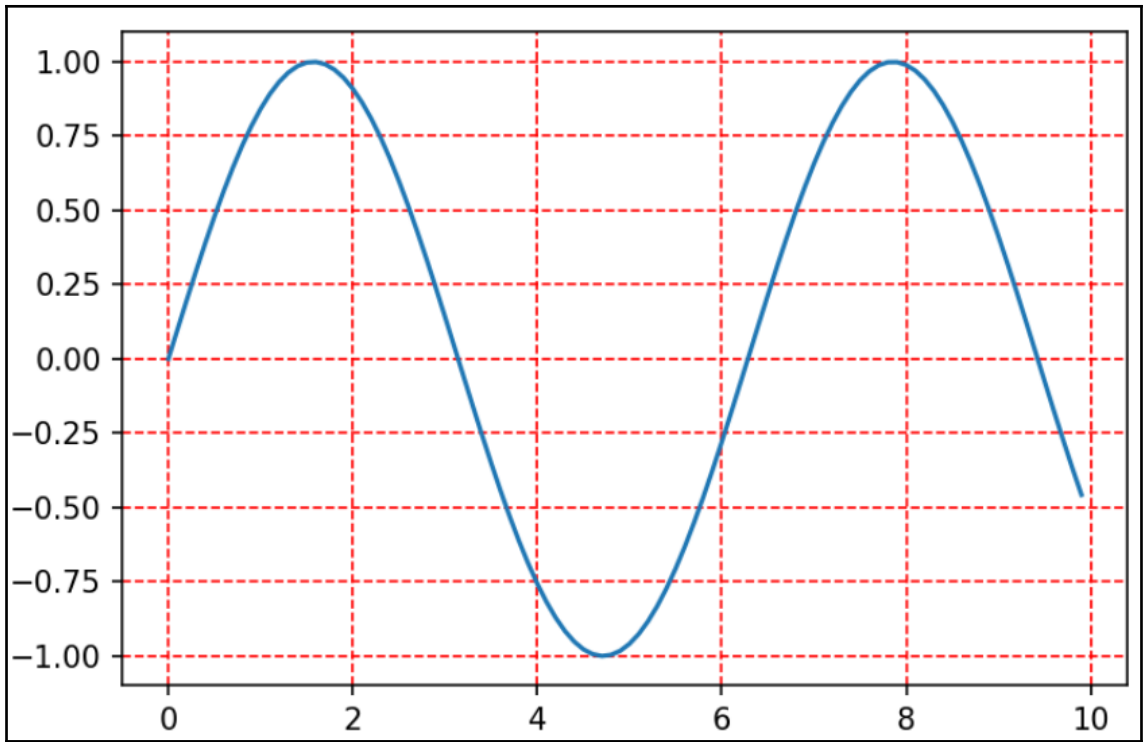


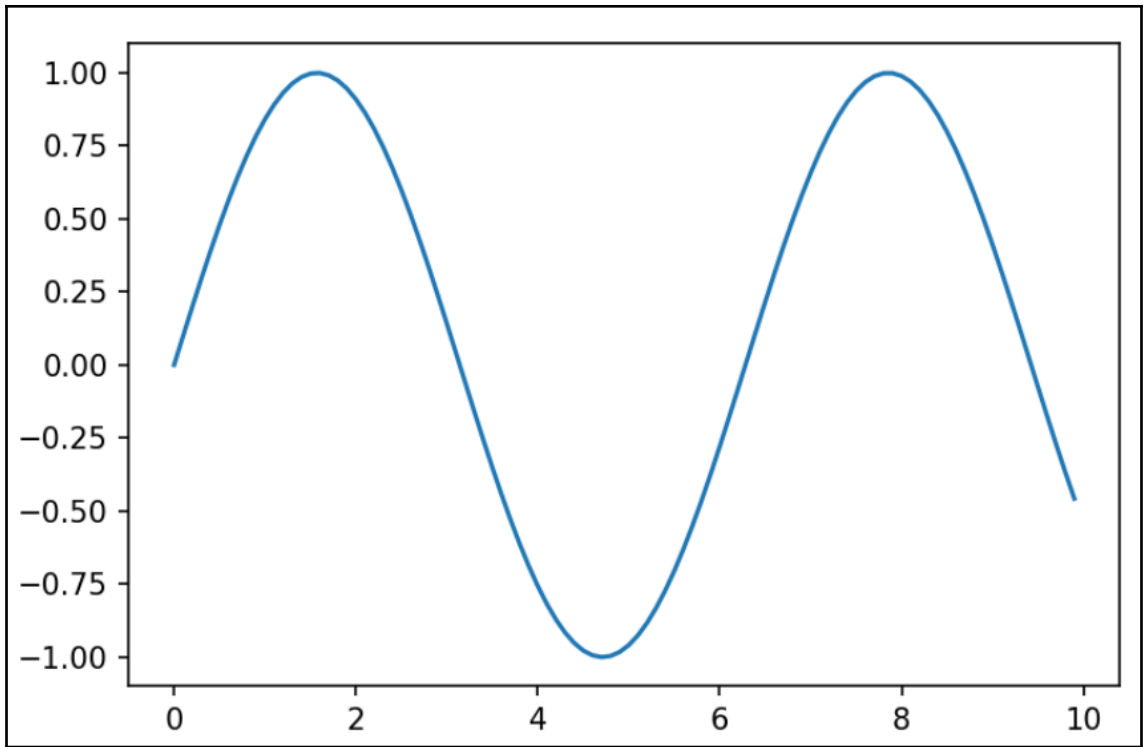


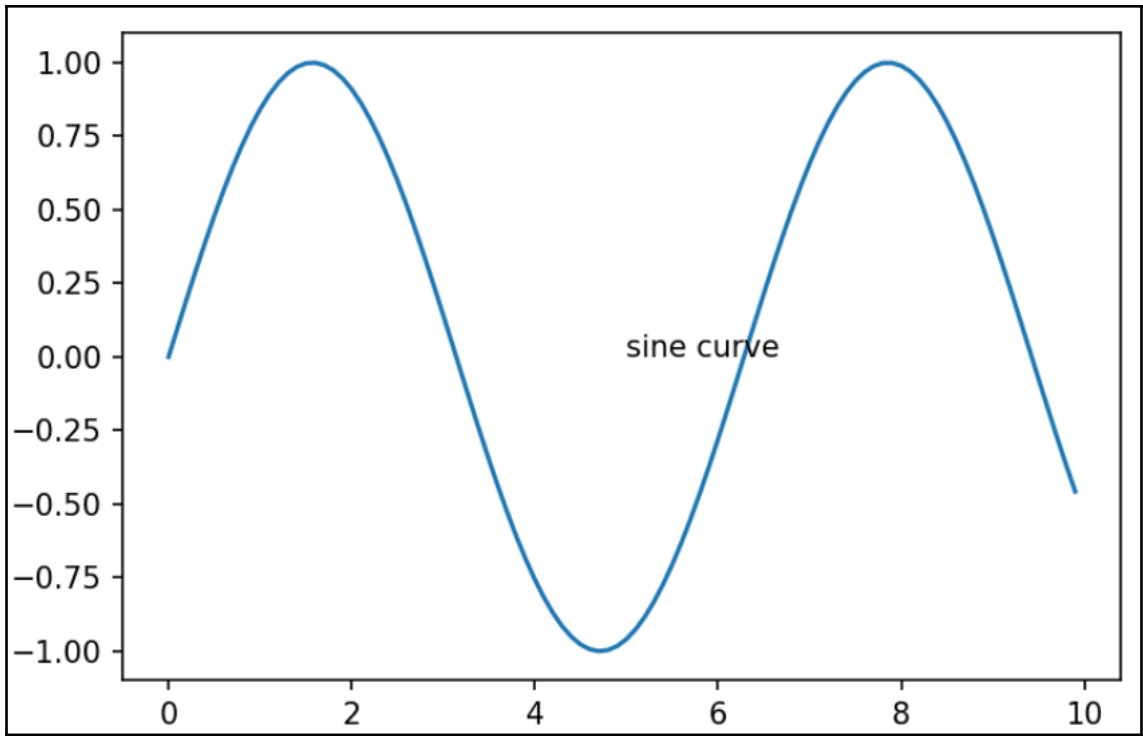


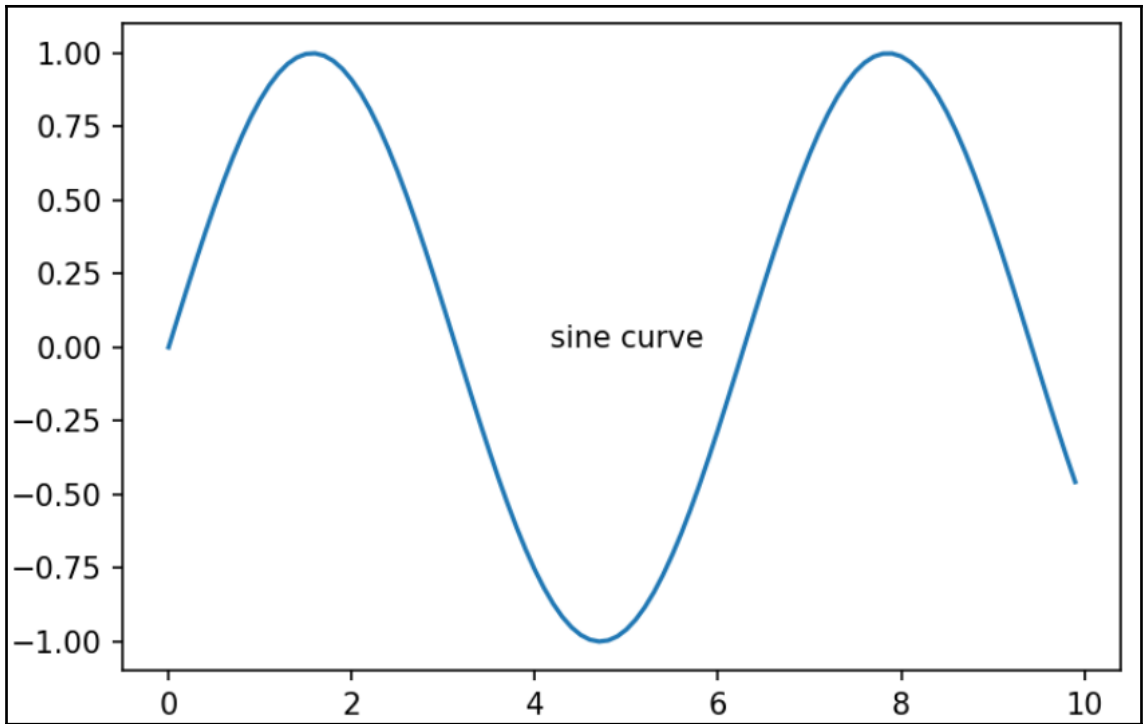


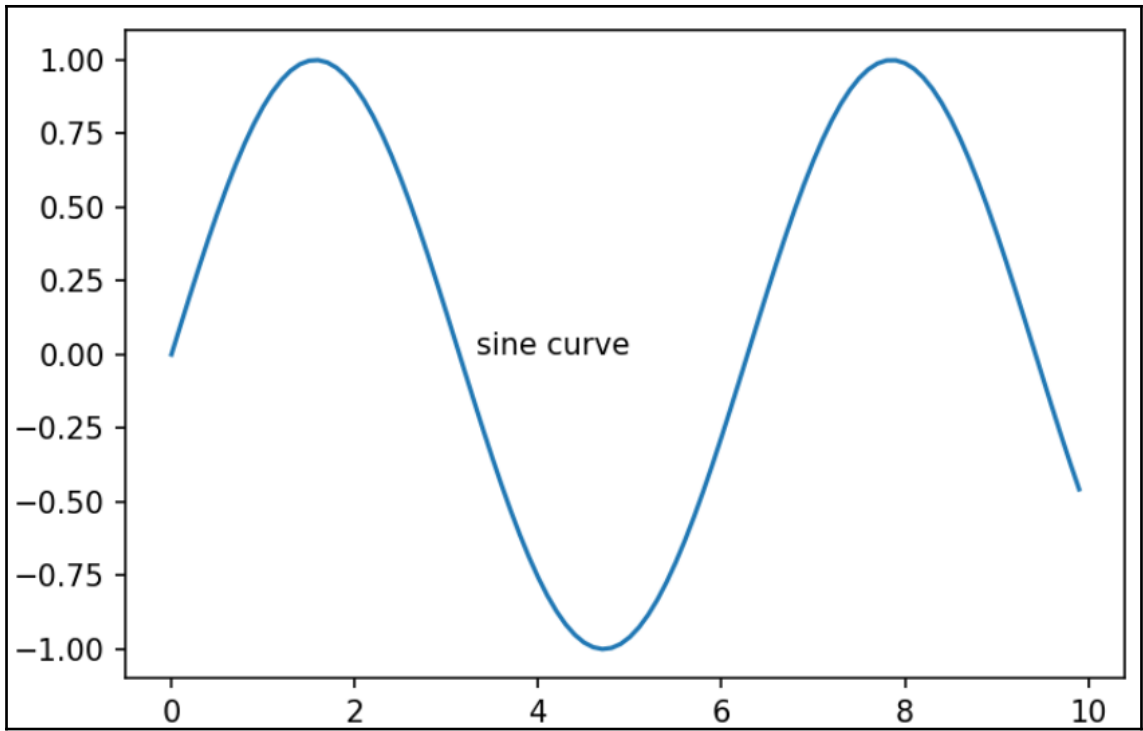


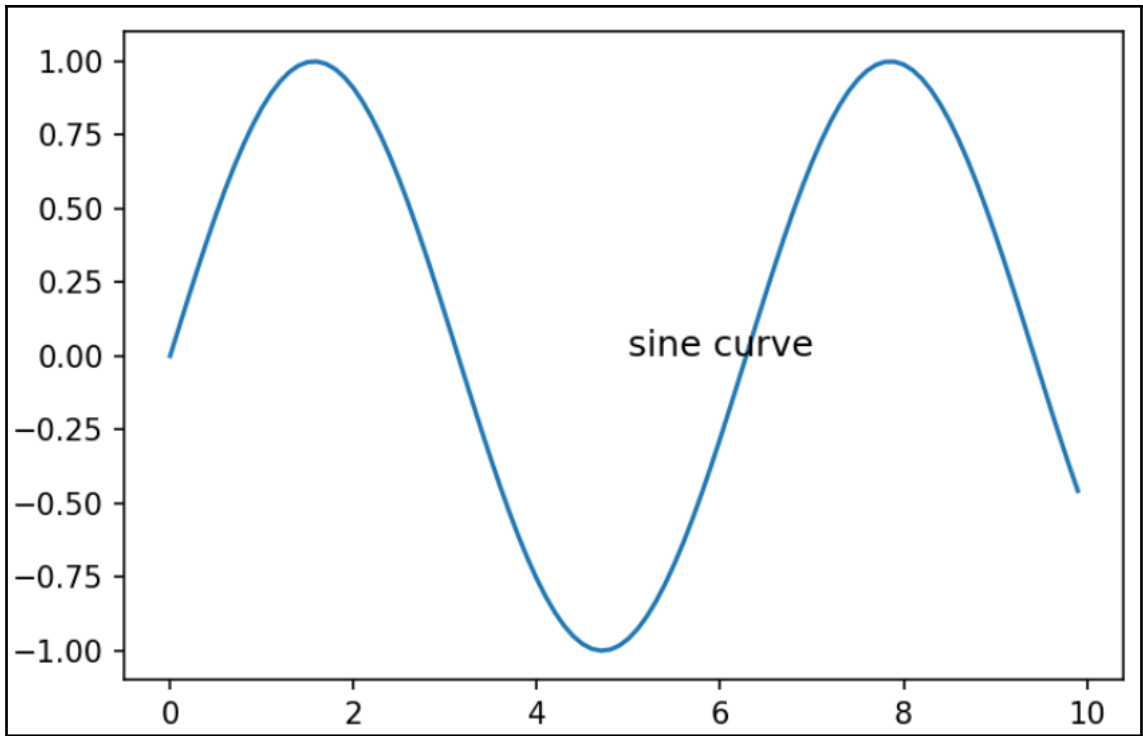


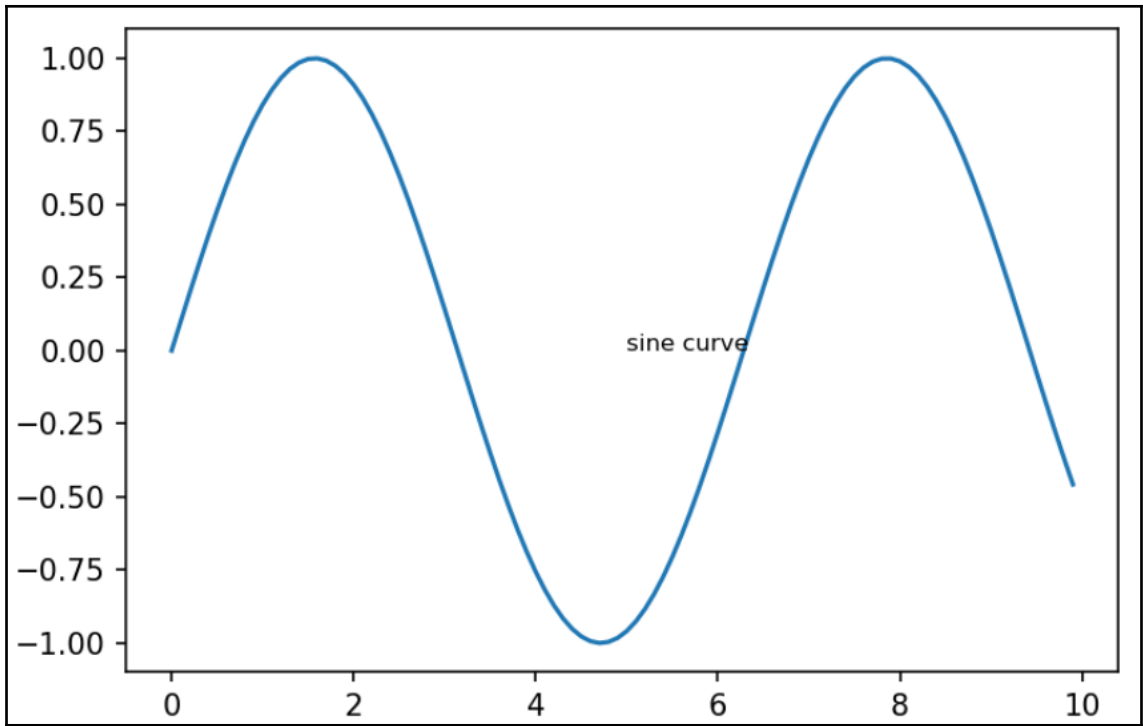


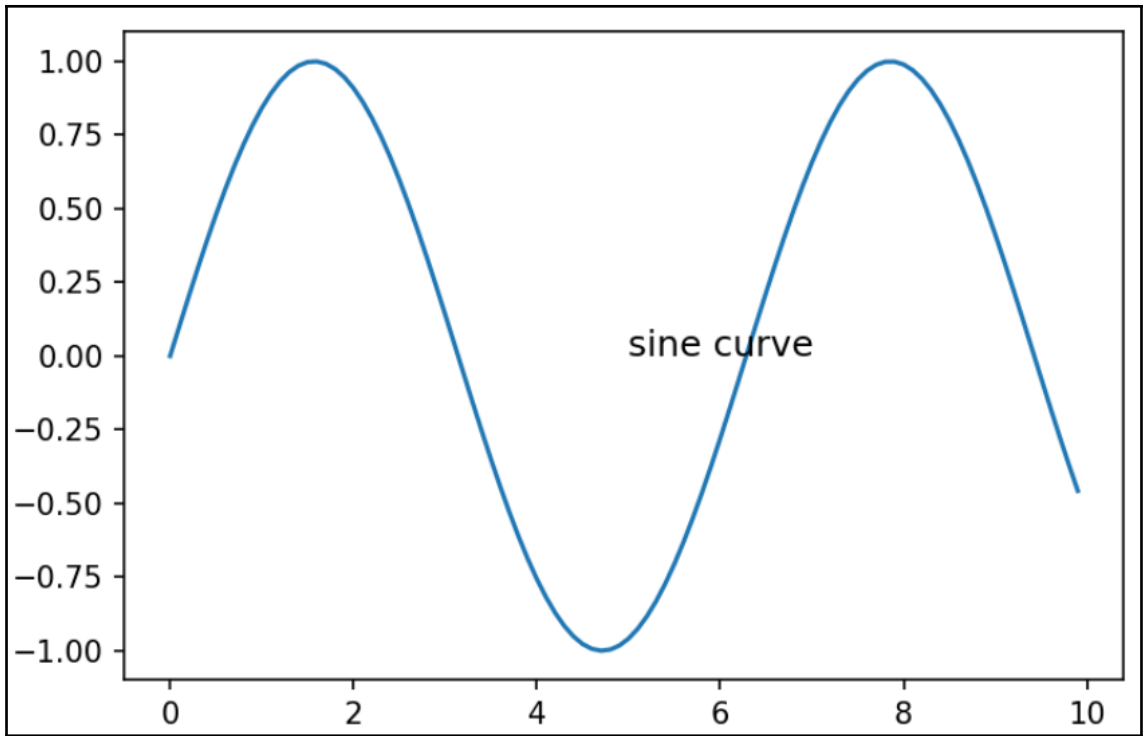




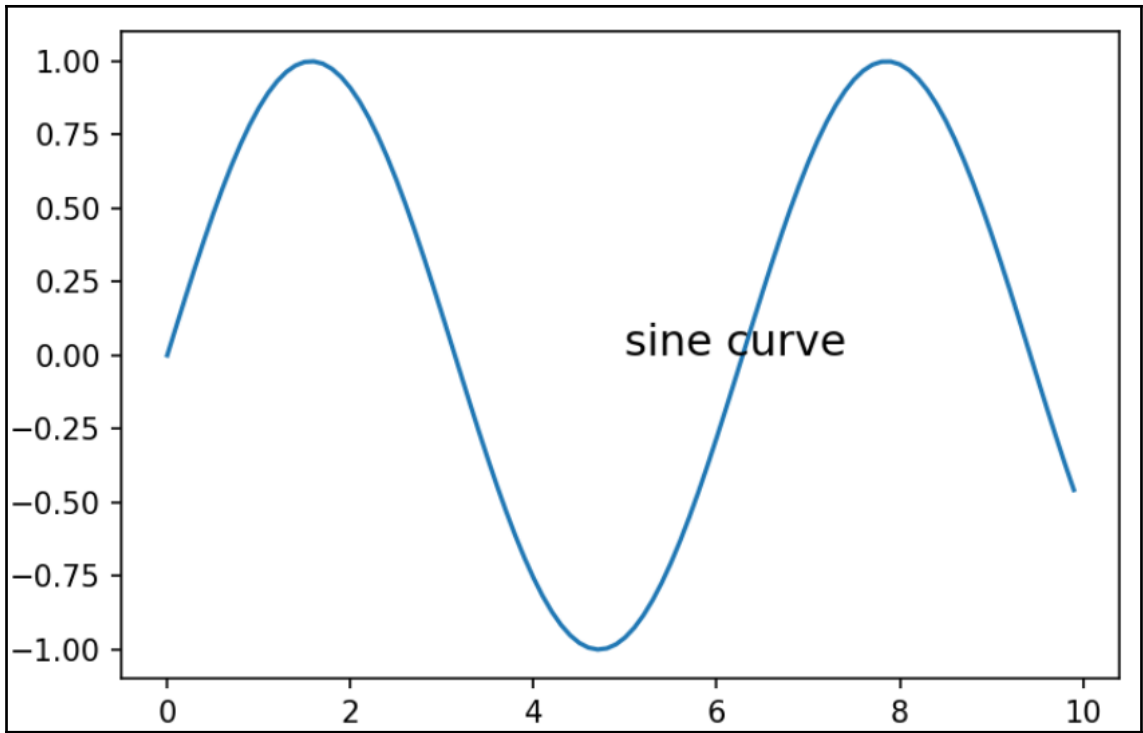


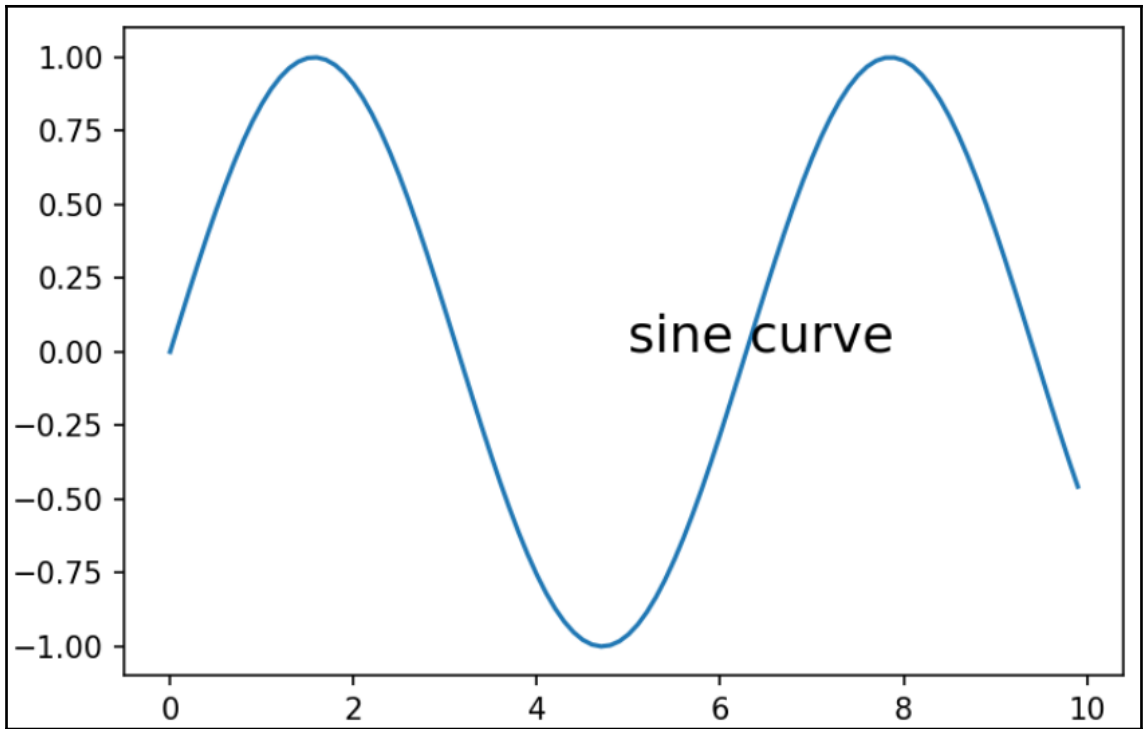


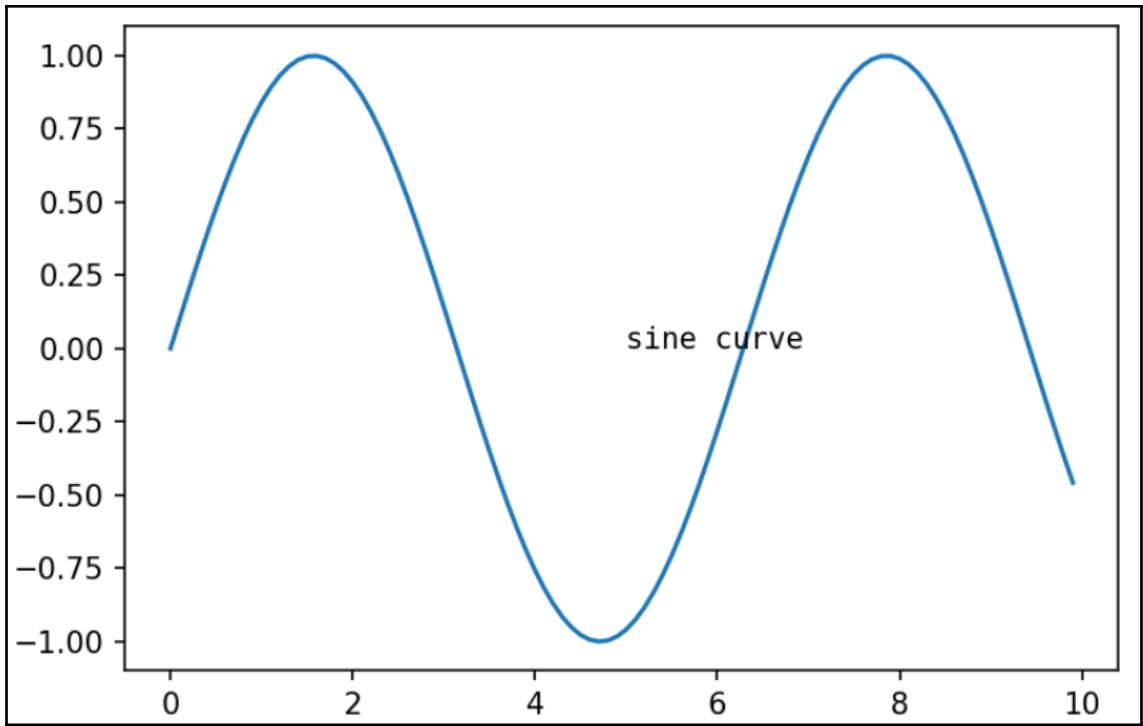


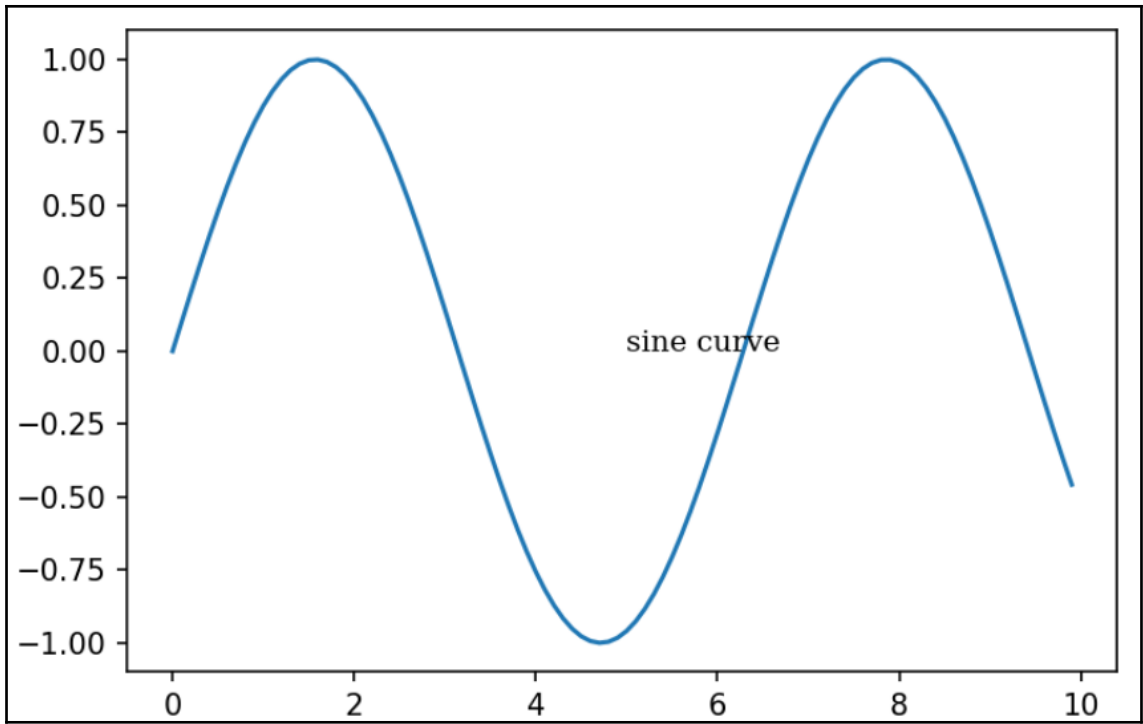


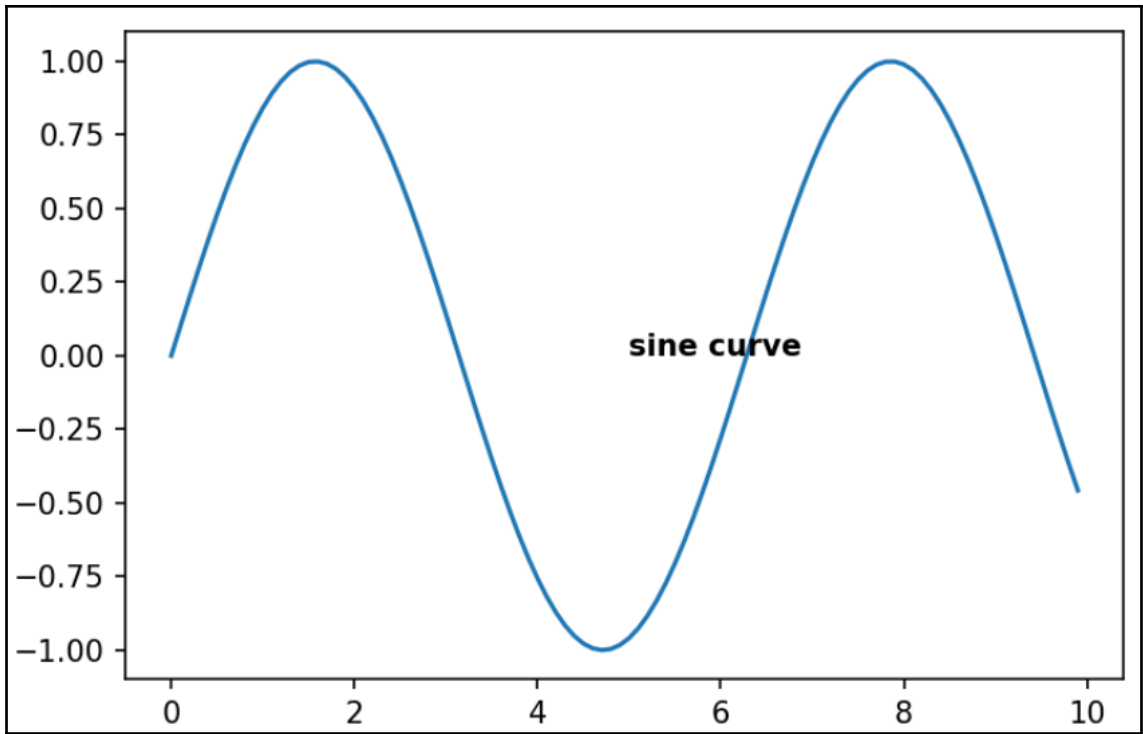


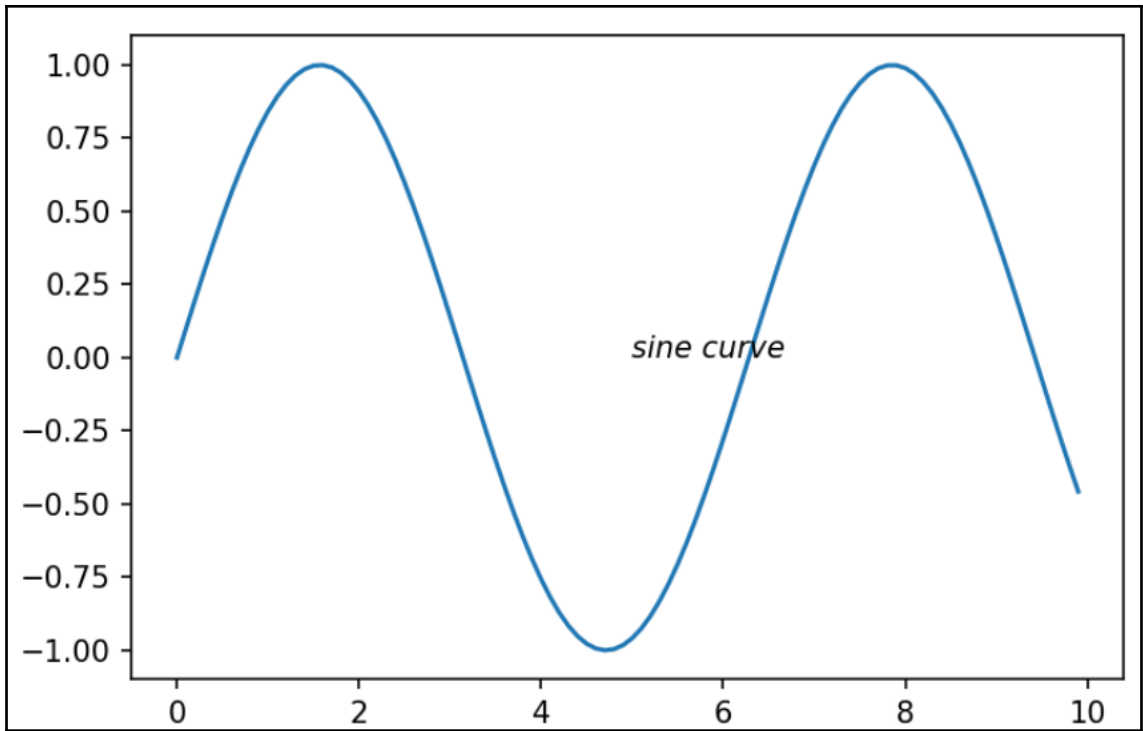


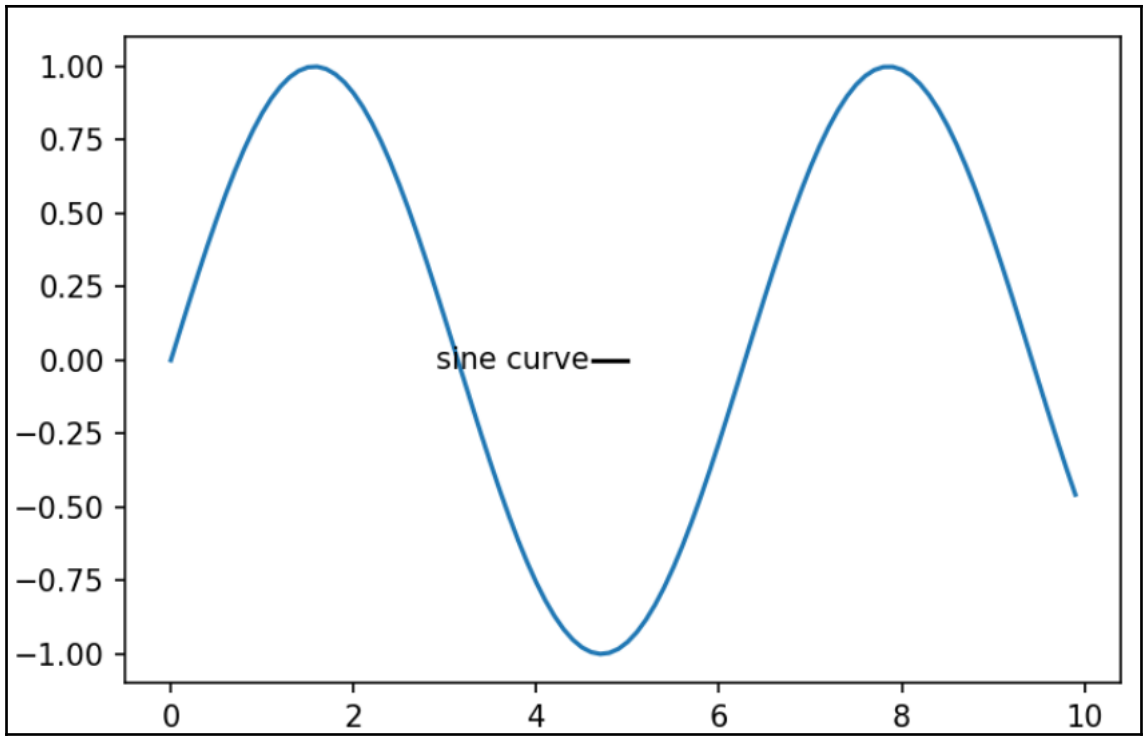


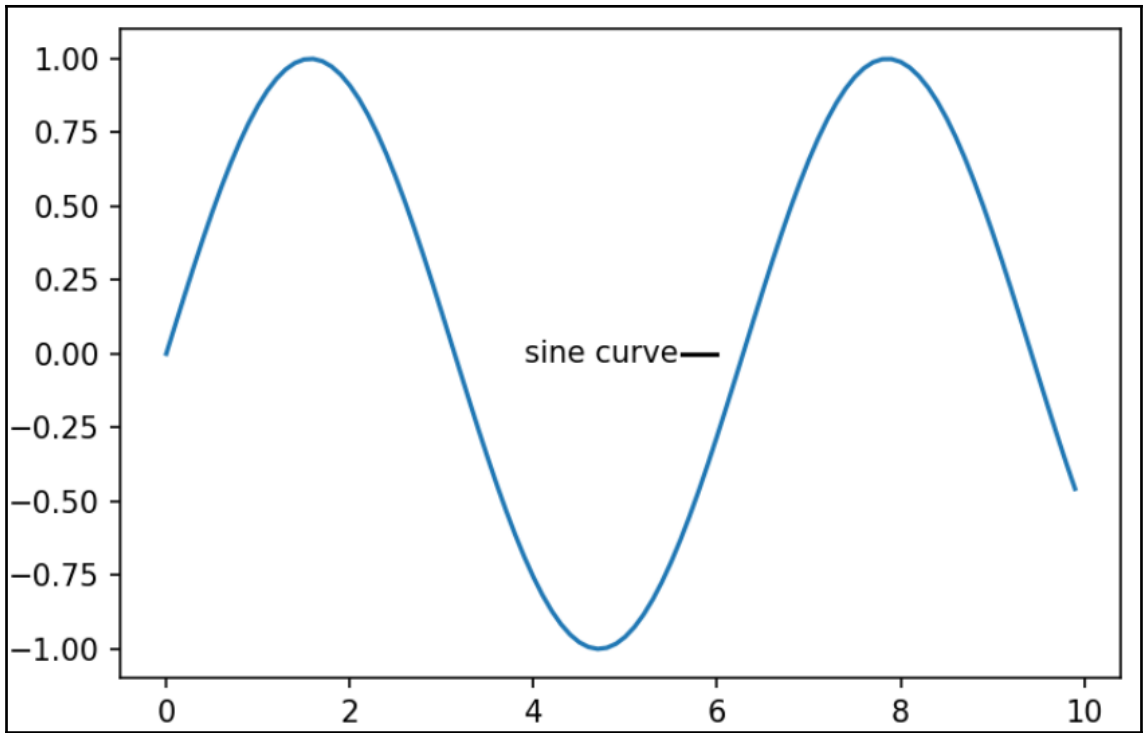




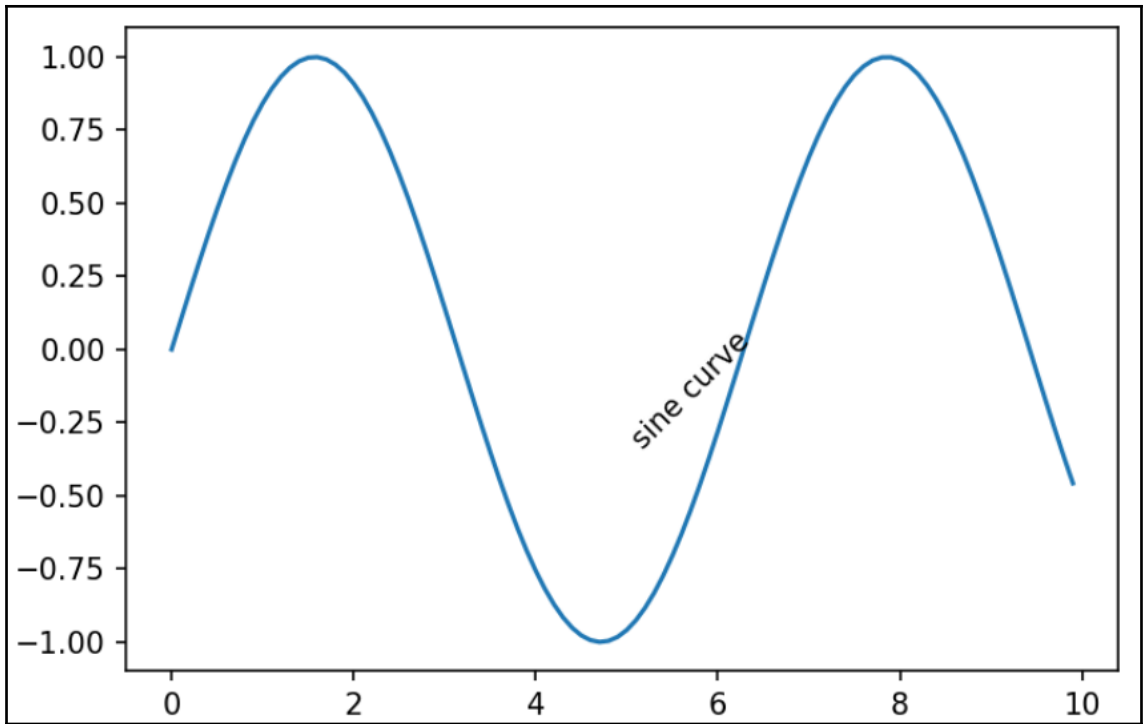


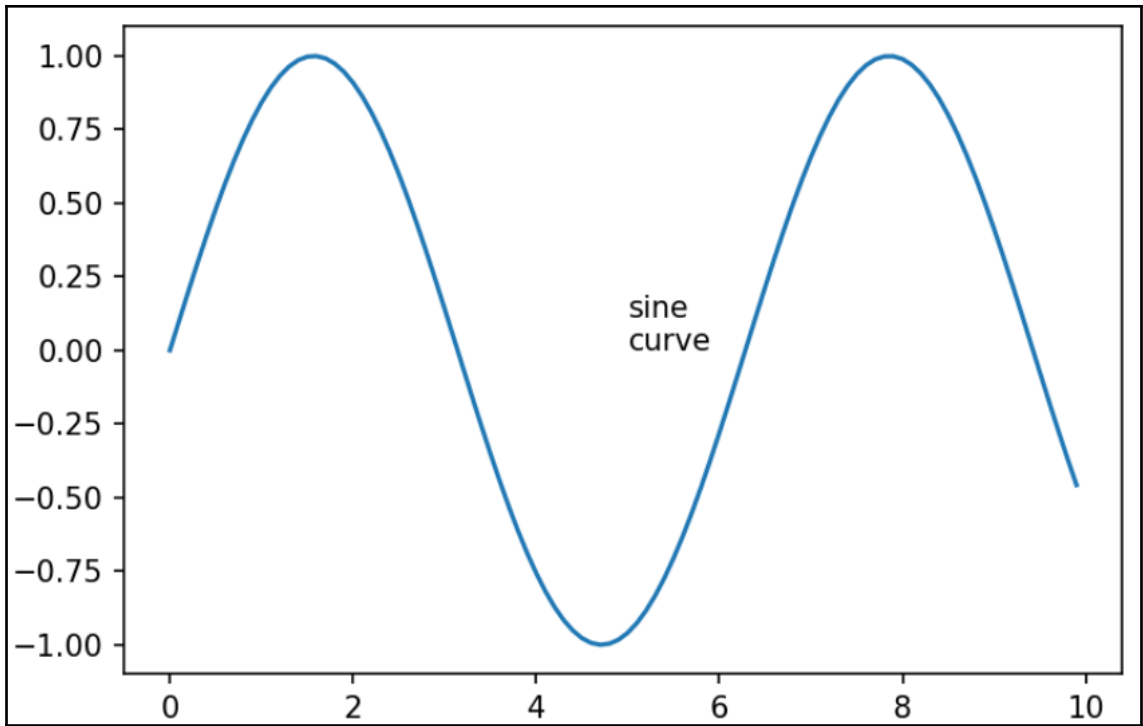


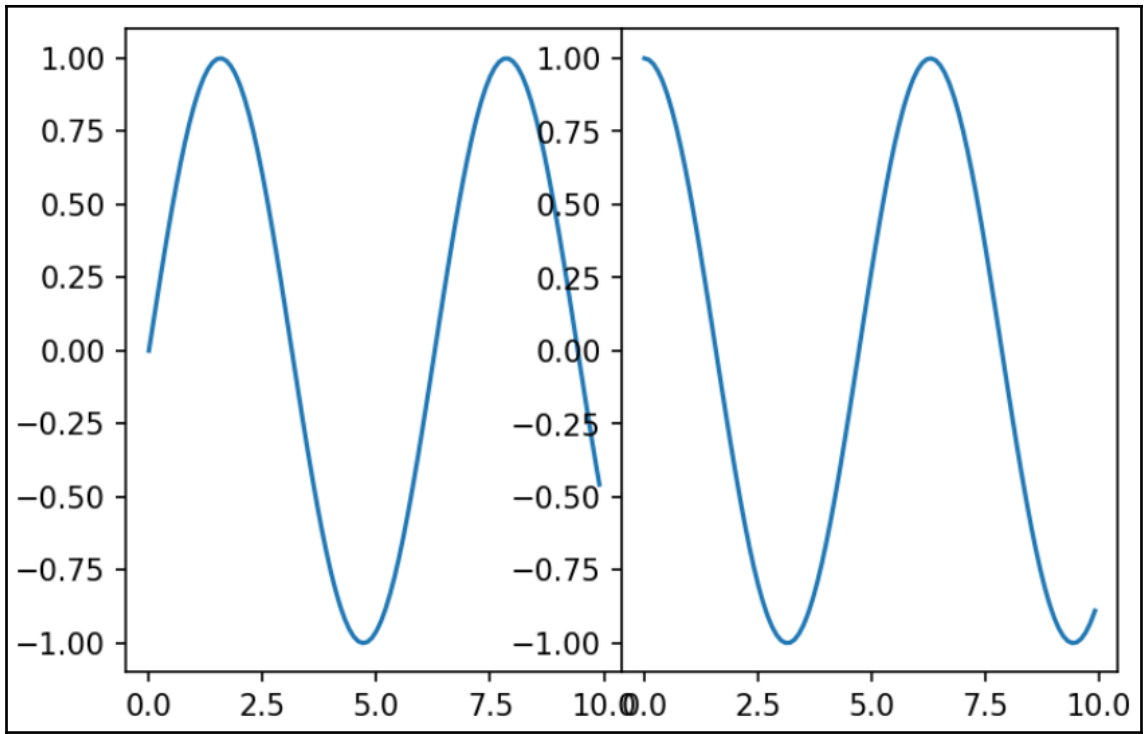


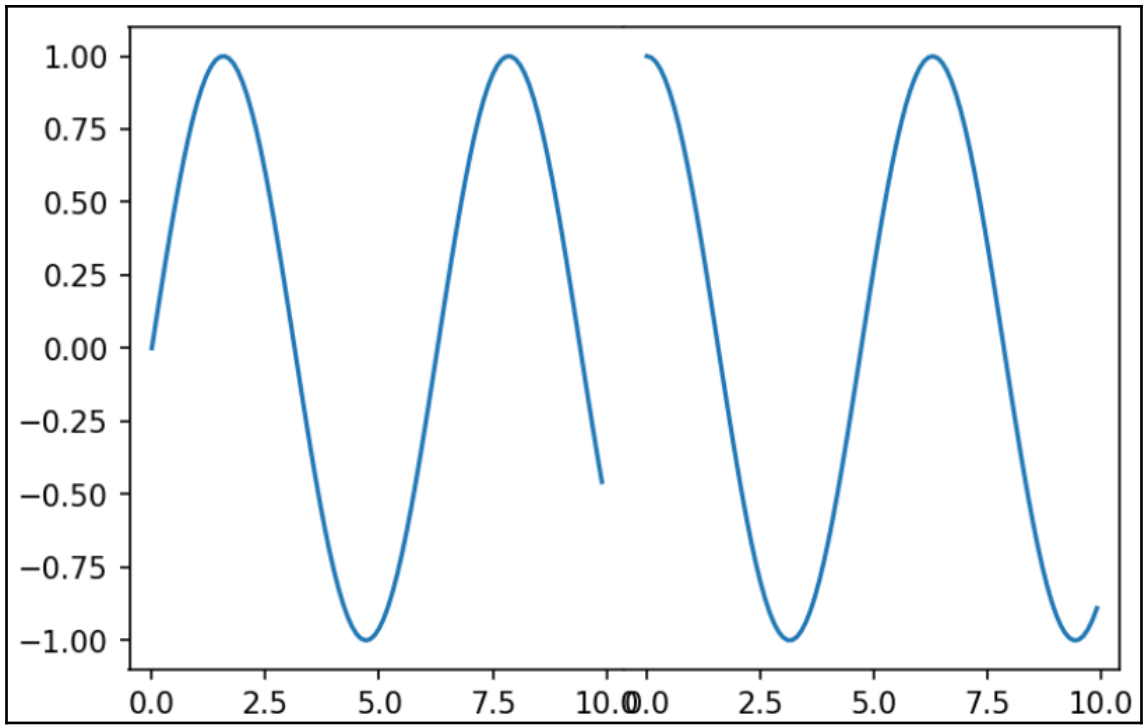


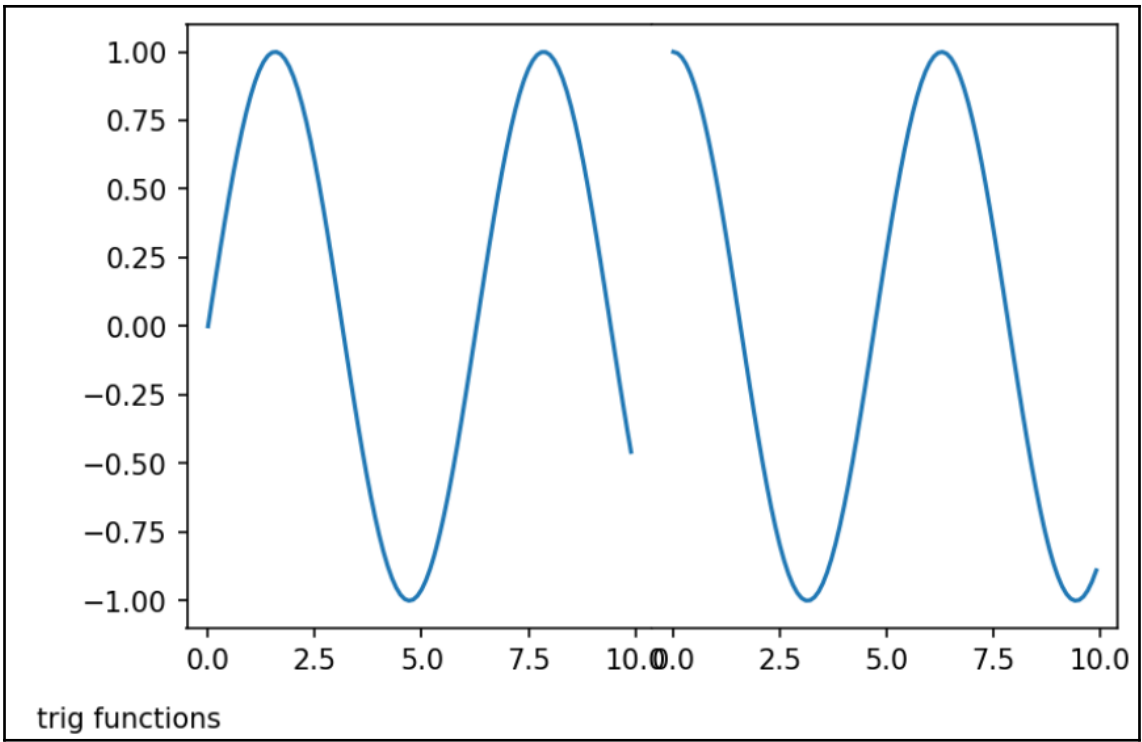


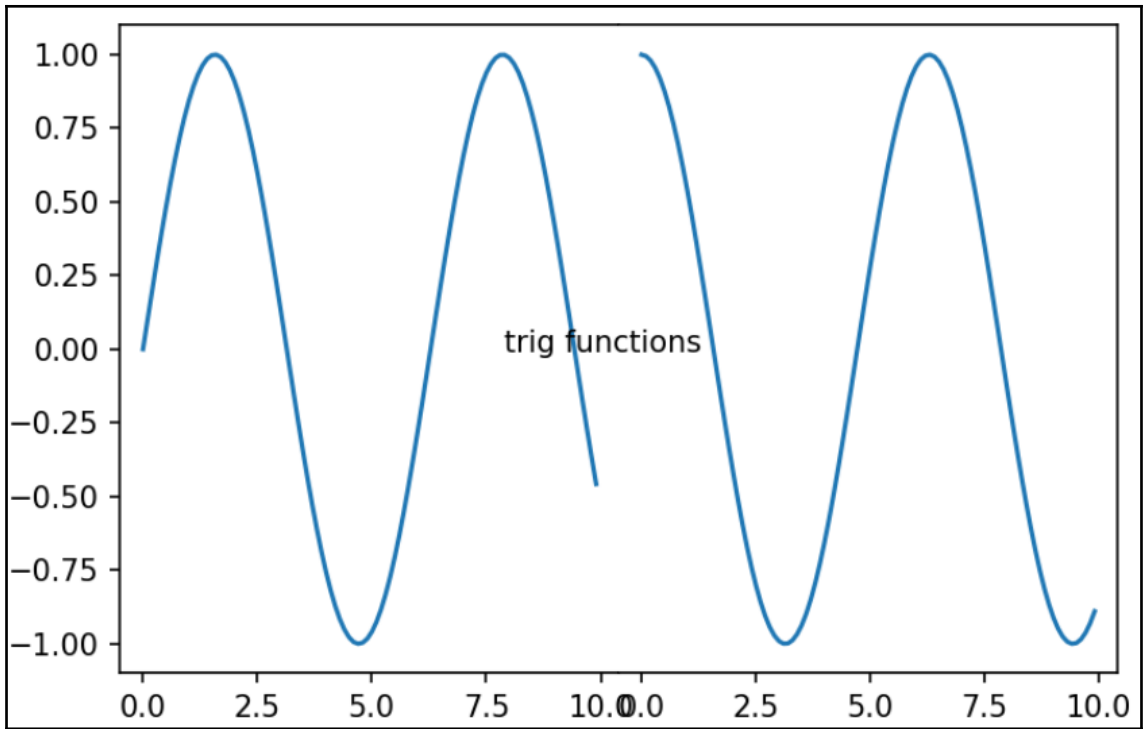


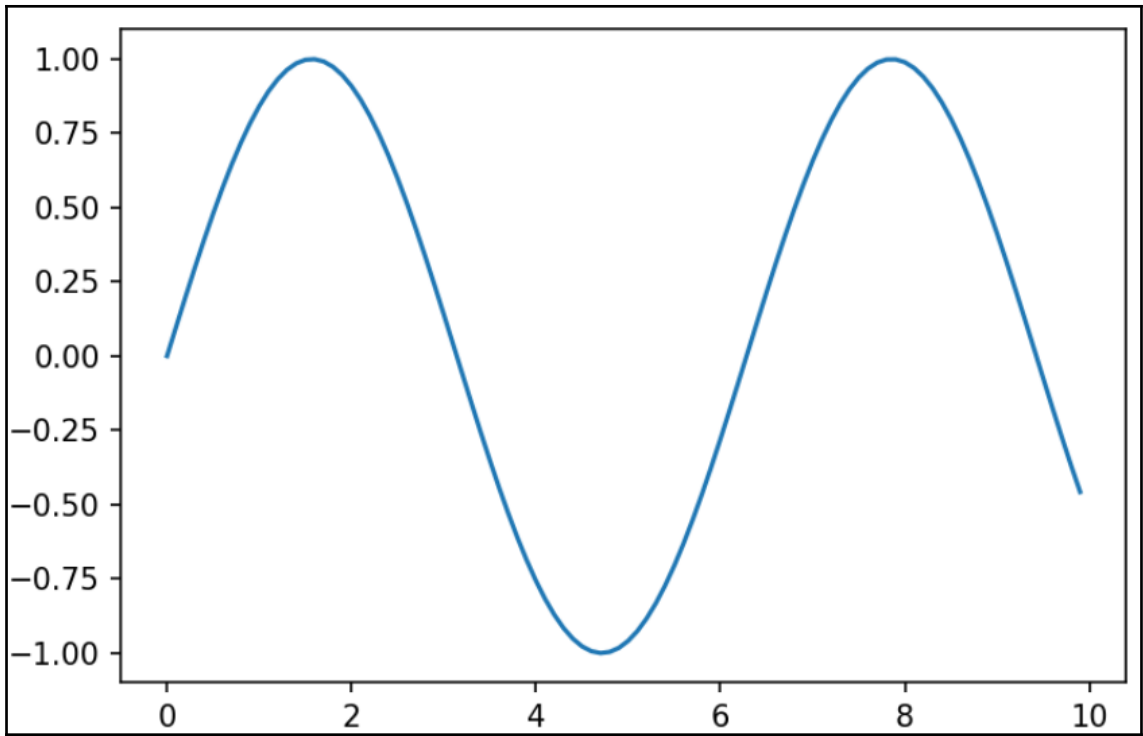


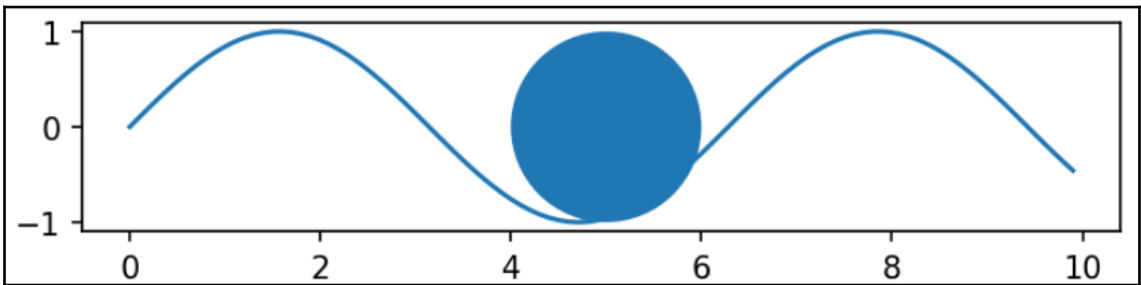
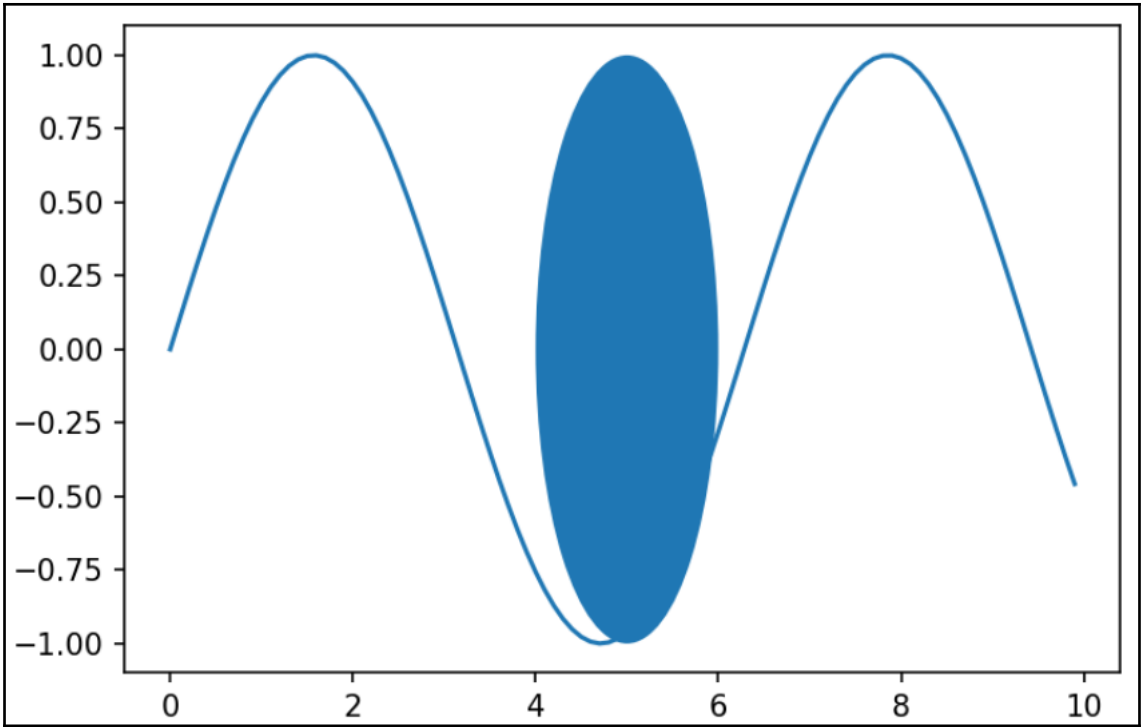




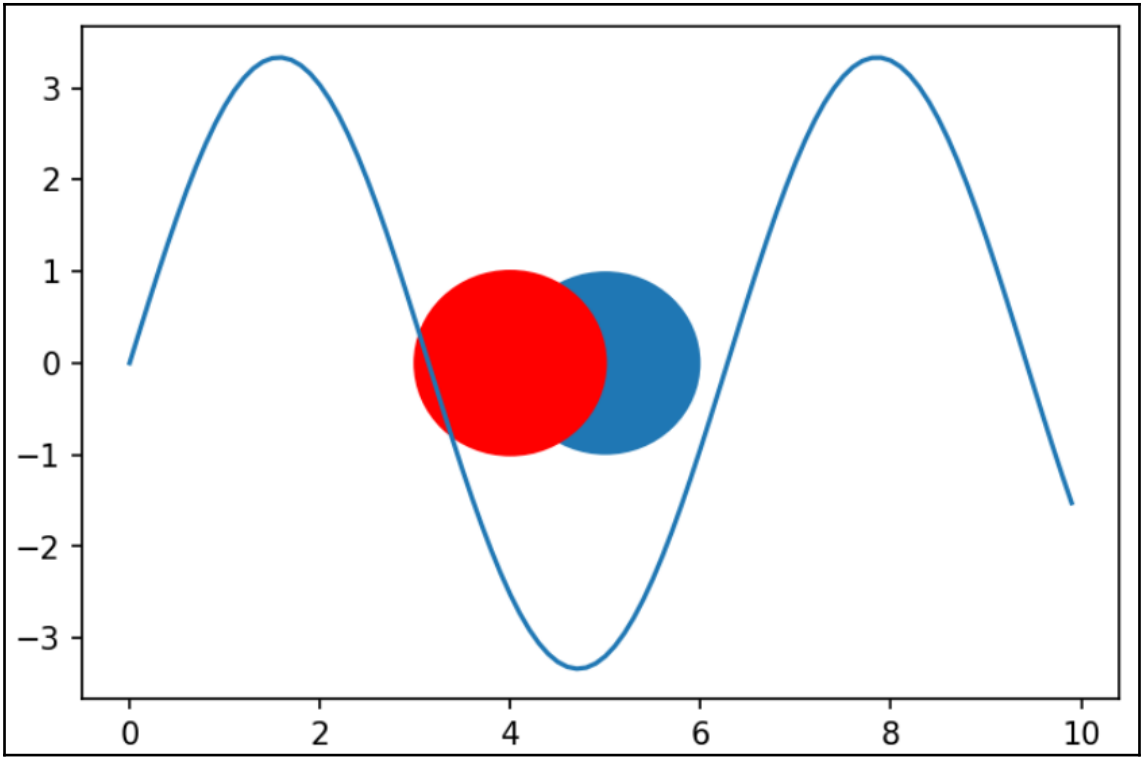


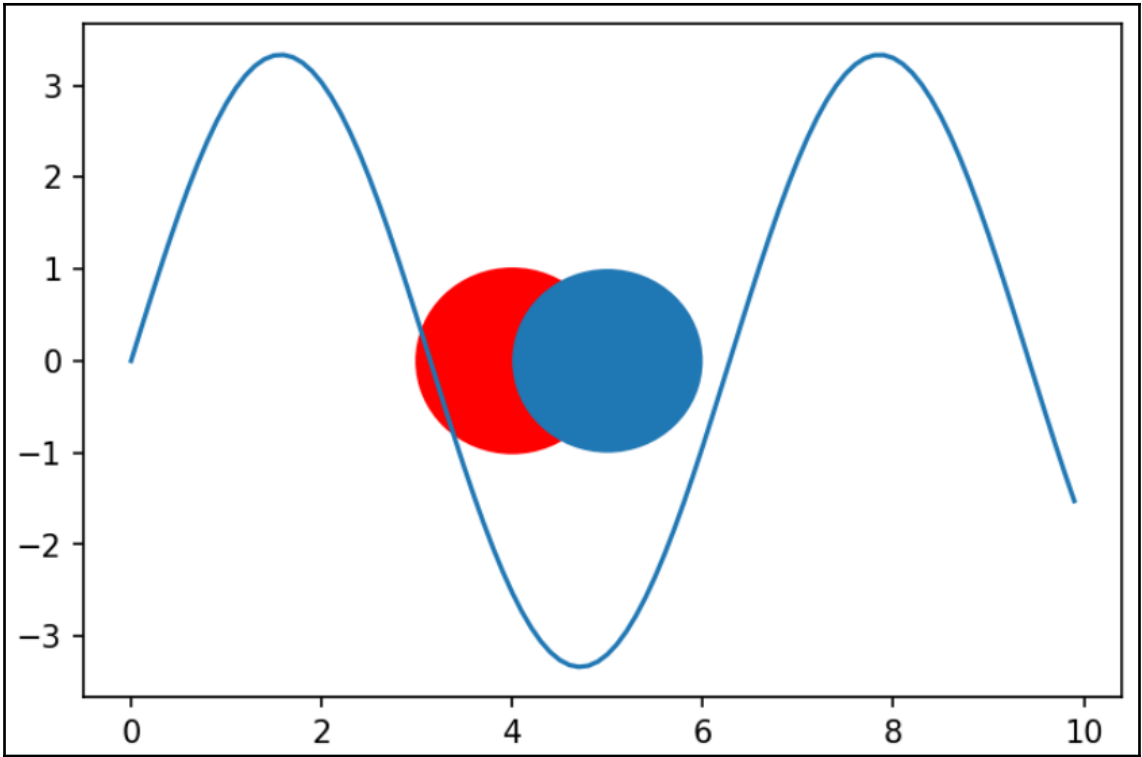


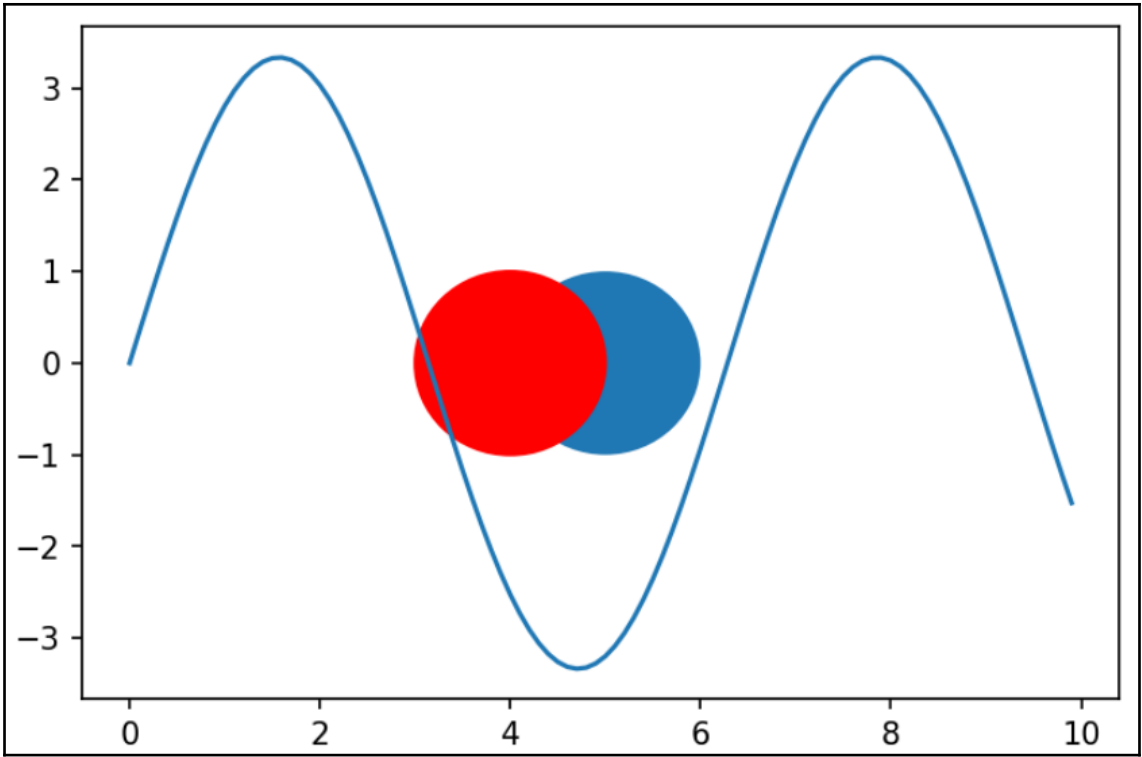


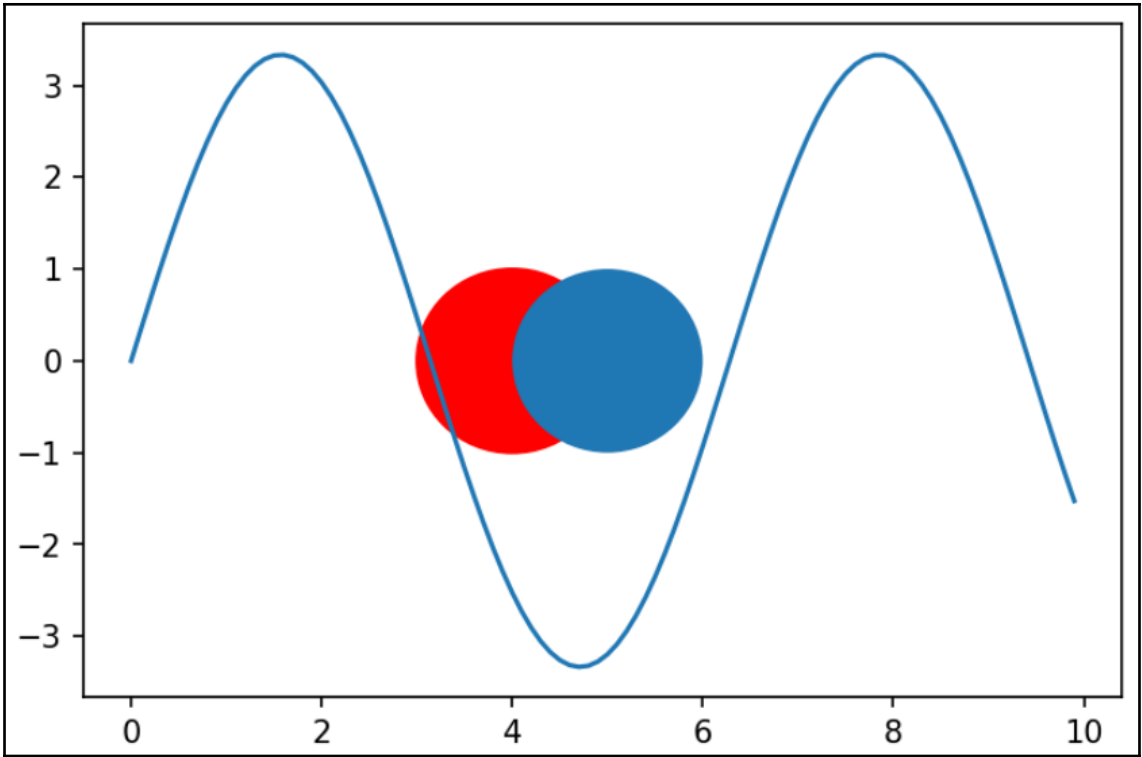


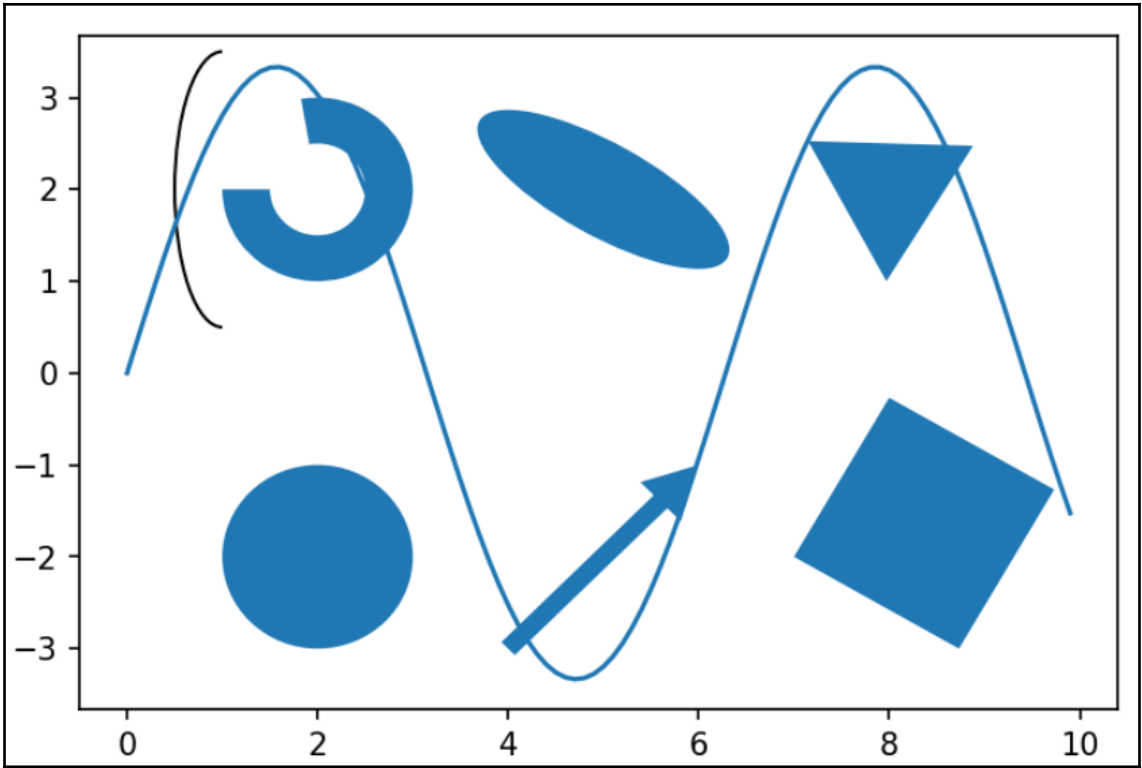


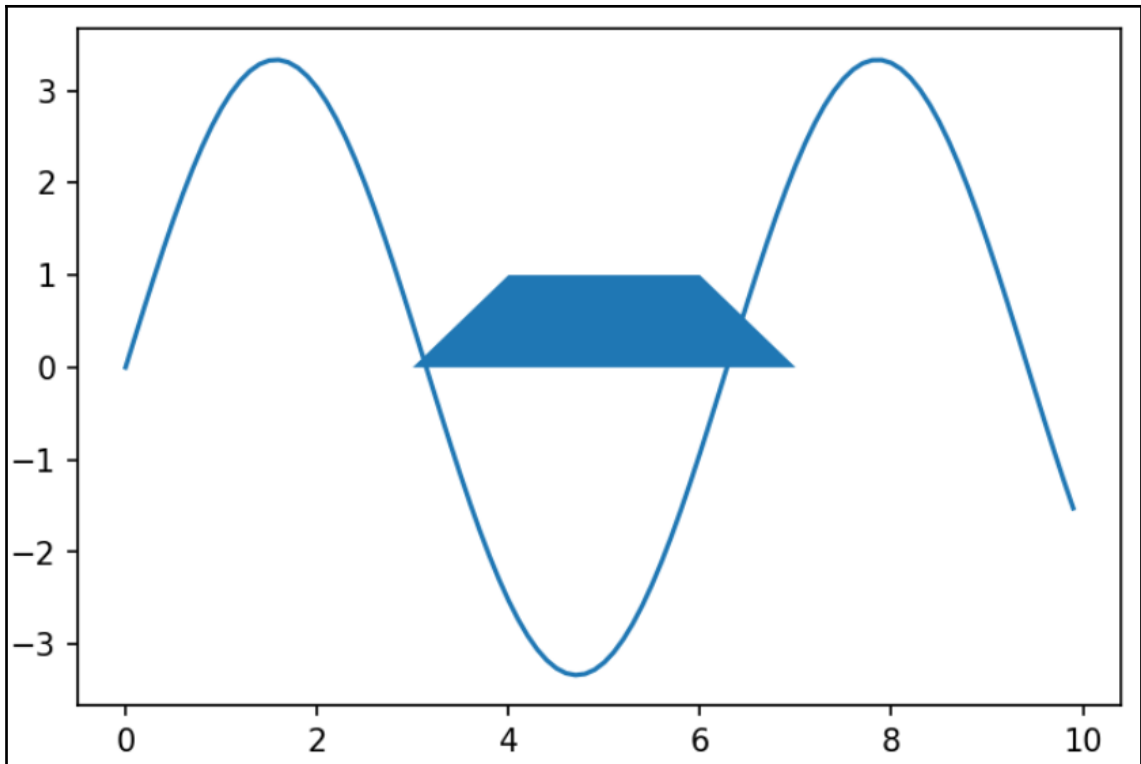












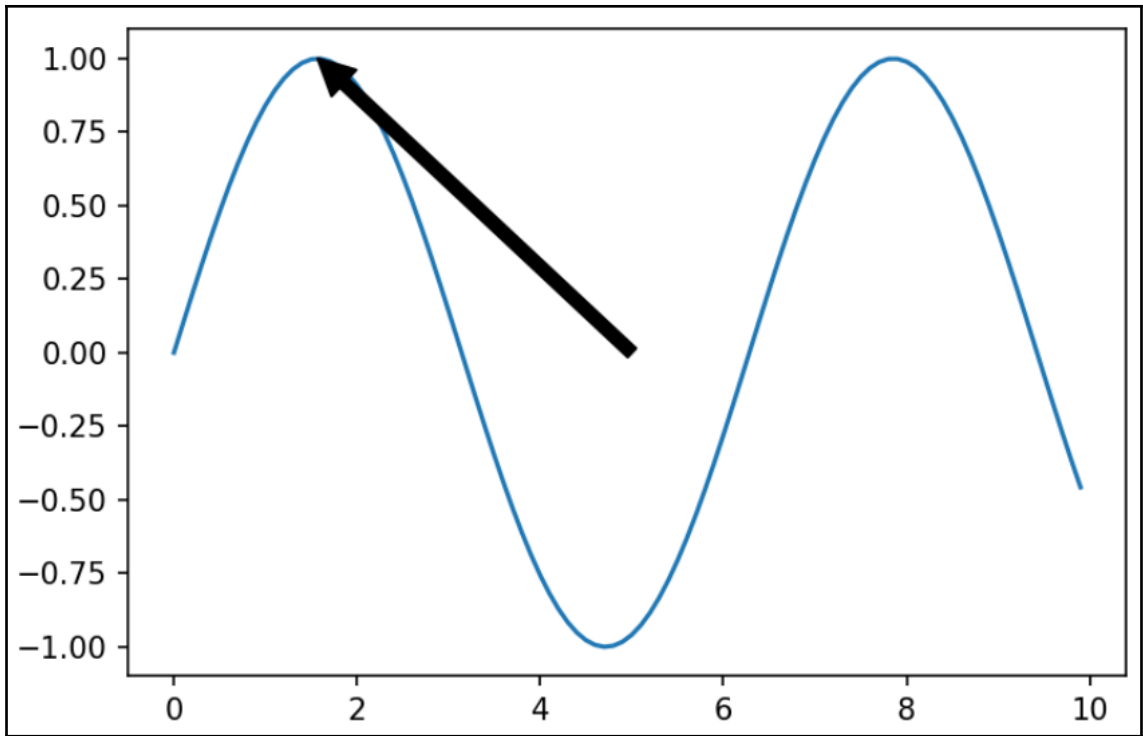
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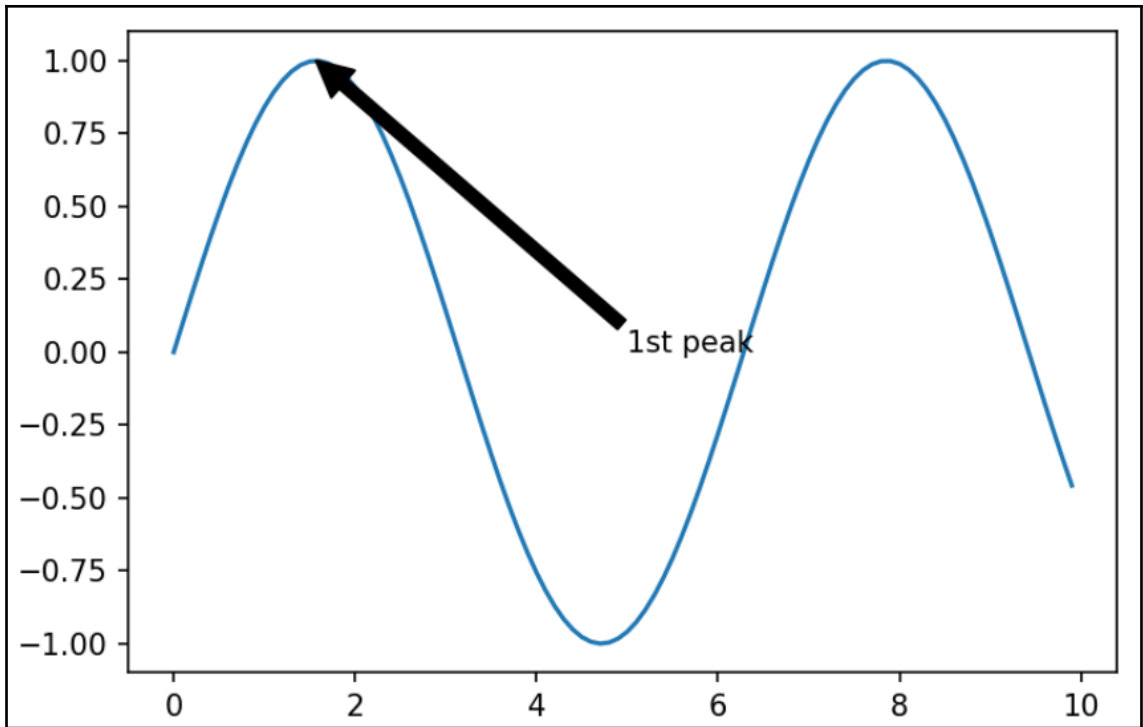
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String form: <module 'matplotlib.path' from 'C:\\Users\\sagarsawant\\AppData\\Local\\Continuum\\Anaconda3\\anaconda\\lib
\\site-packages\\matplotlib\\path.py'>
File:      ~\\appdata\\local\\continuum\\anaconda3\\anaconda\\lib\\site-packages\\matplotlib\\path.py
Docstring:
A module for dealing with the polylines used throughout matplotlib.

The primary class for polyline handling in matplotlib is :class:`Path`.
Almost all vector drawing makes use of Paths somewhere in the drawing
pipeline.

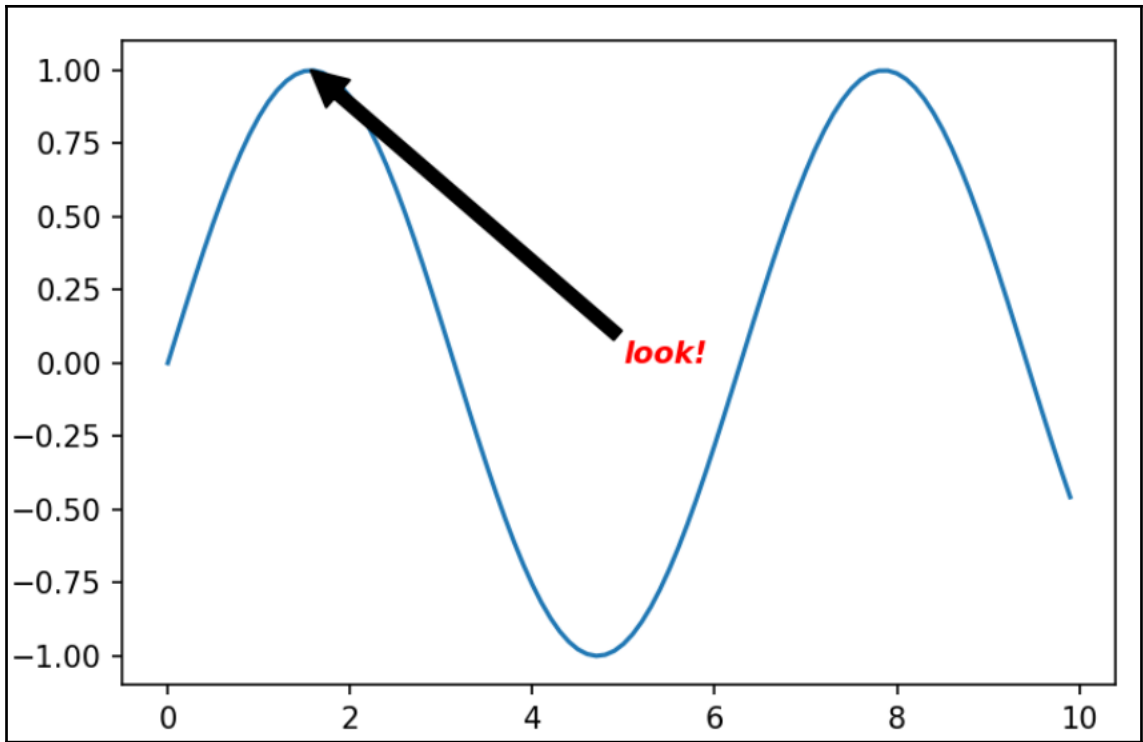
Whilst a :class:`Path` instance itself cannot be drawn, there exists
:class:`~matplotlib.artist.Artist` subclasses which can be used for
convenient Path visualisation - the two most frequently used of these are
:class:`~matplotlib.patches.PathPatch` and
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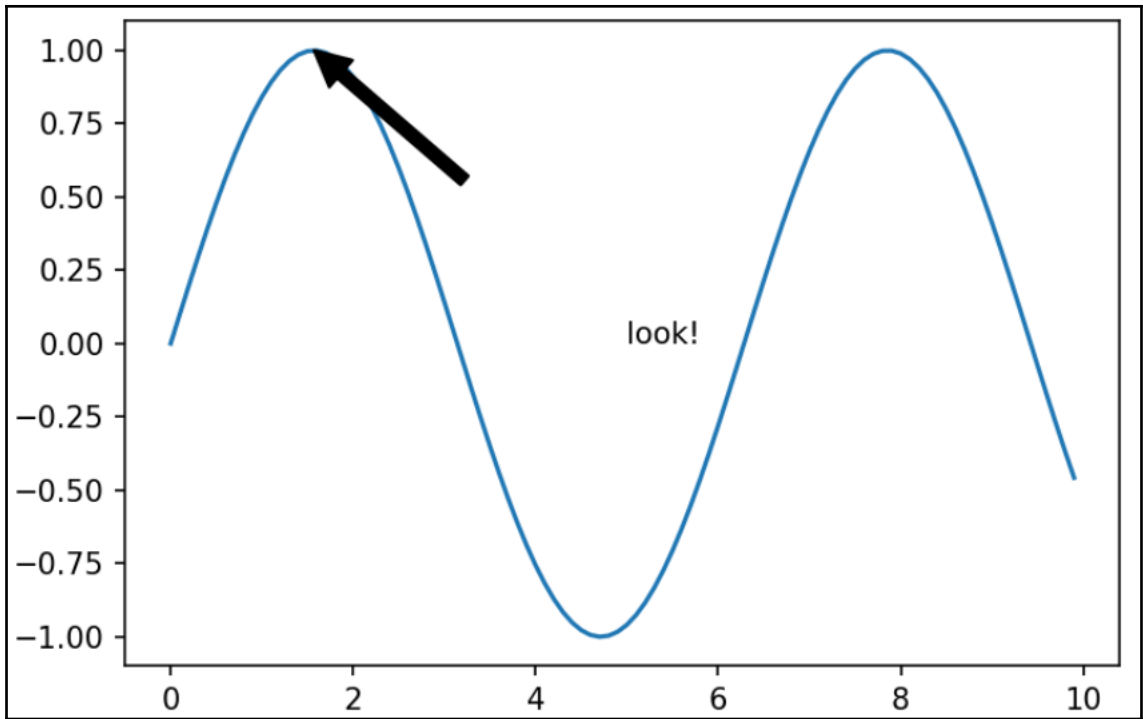
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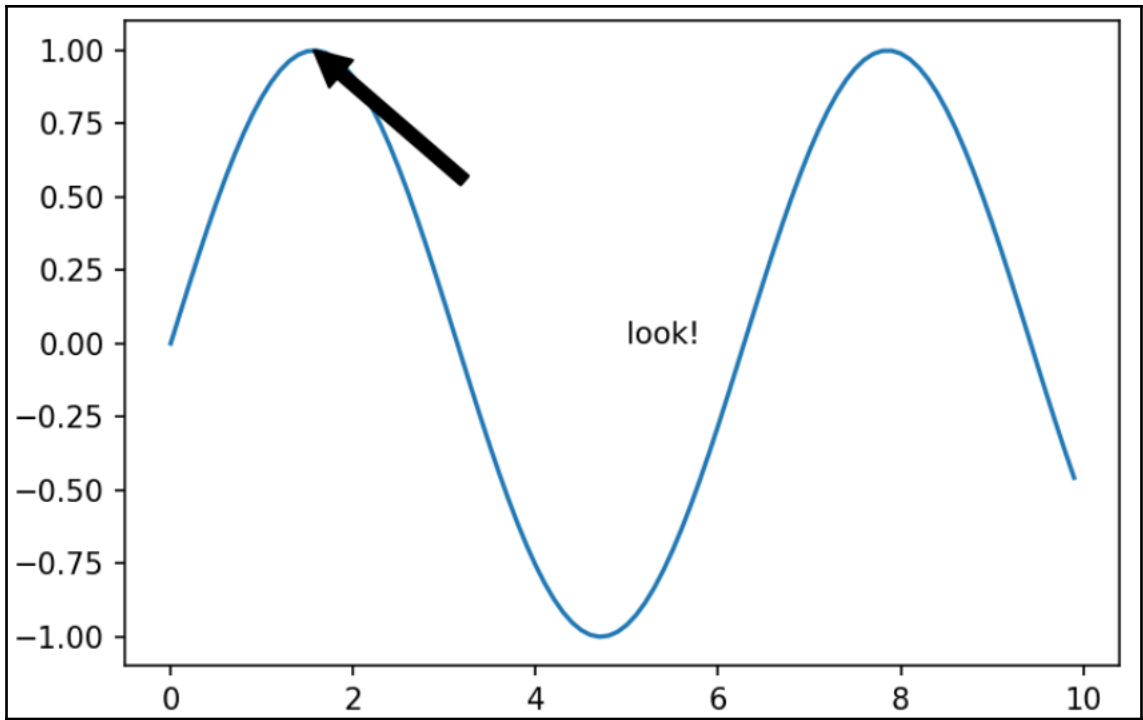


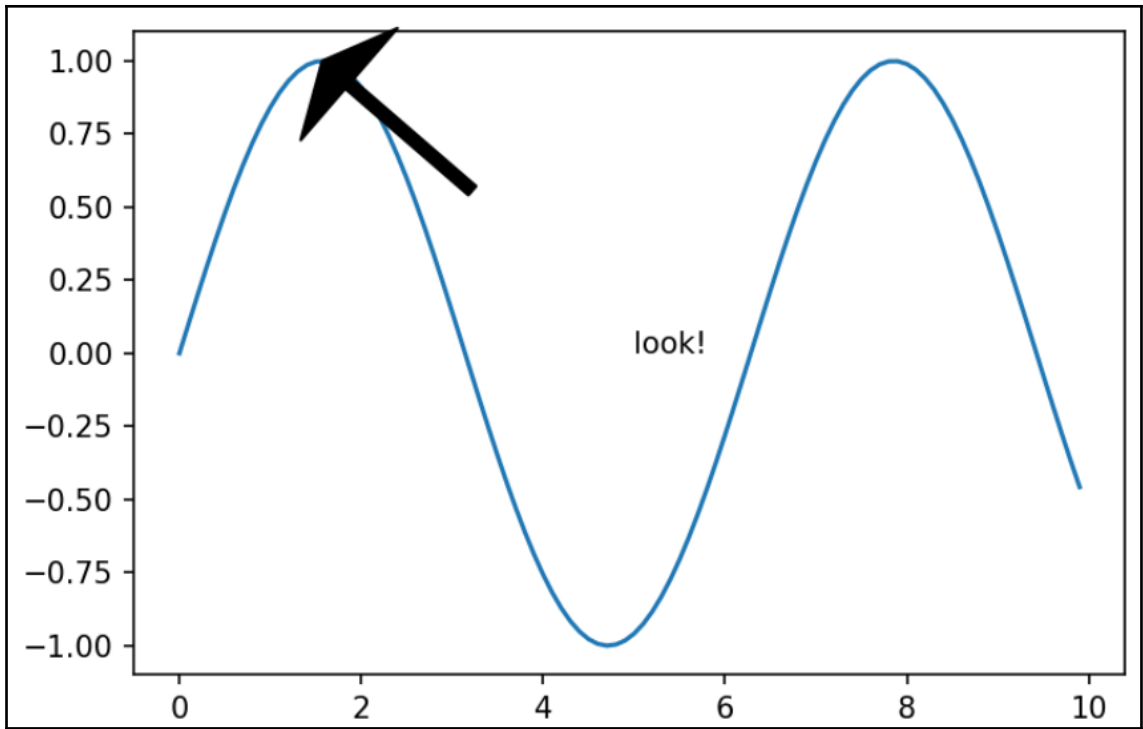


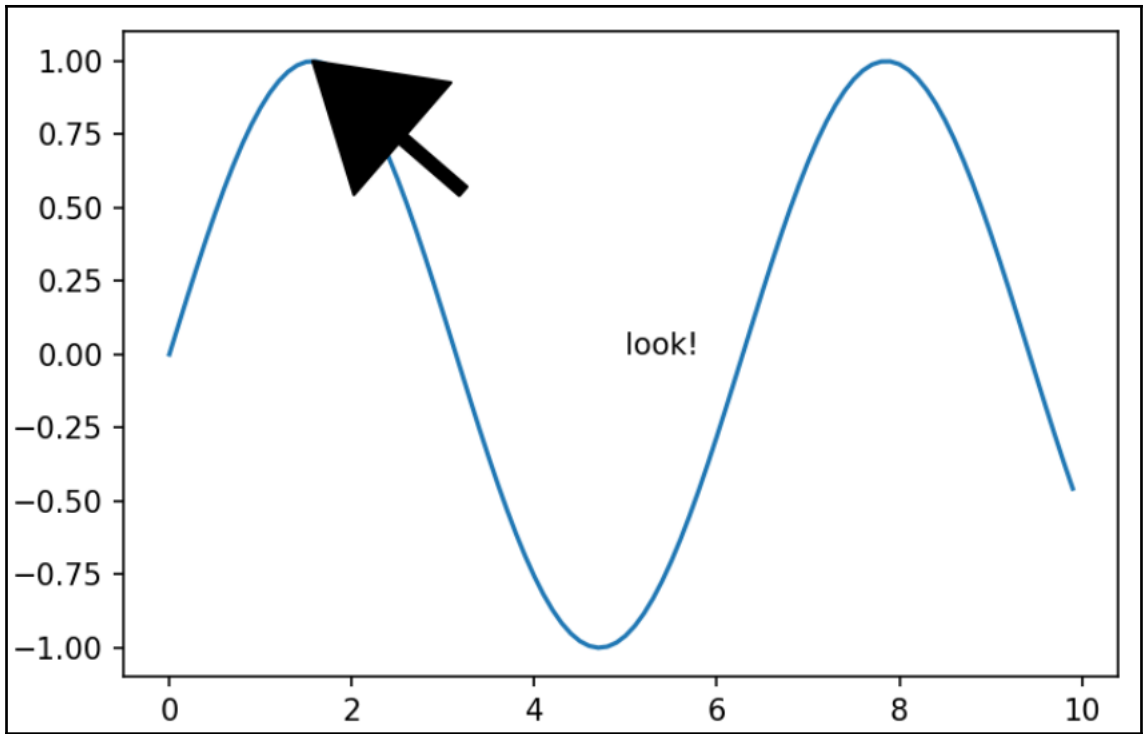


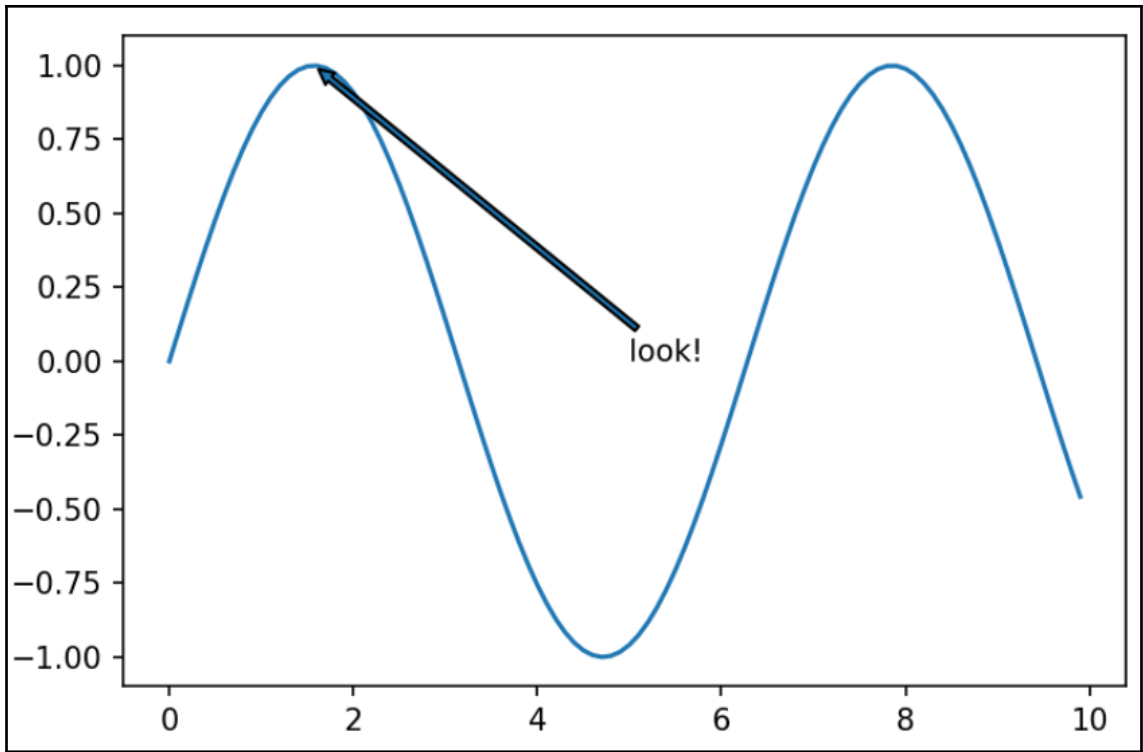


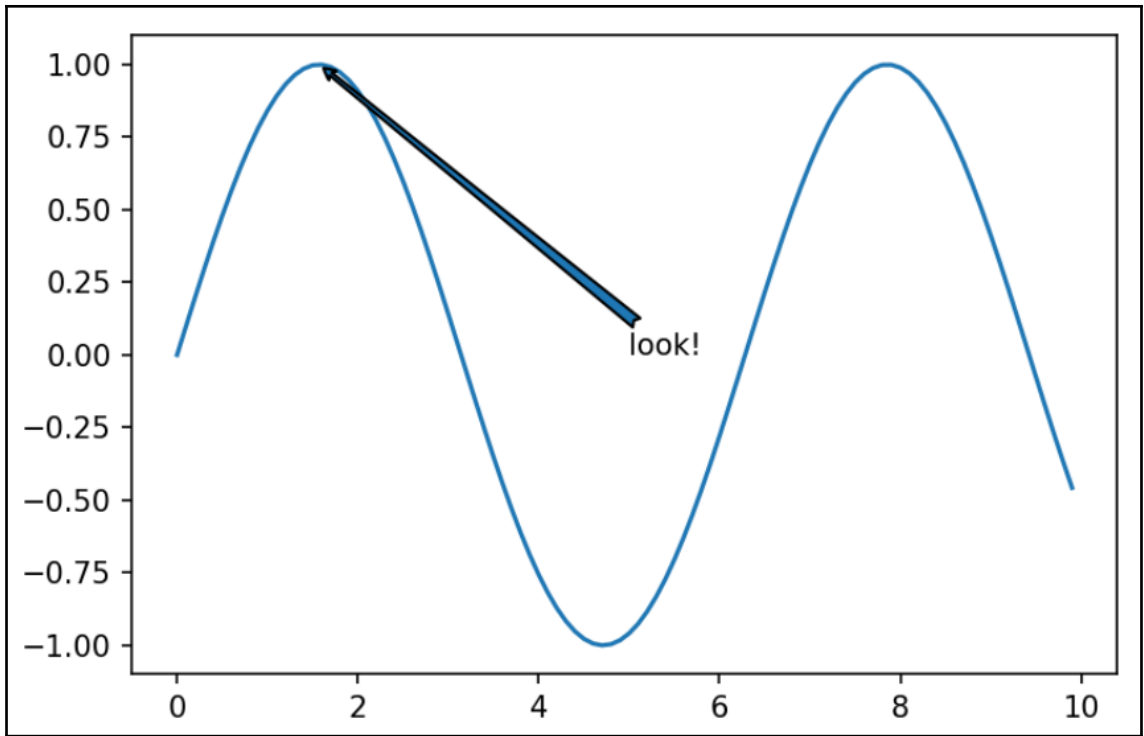


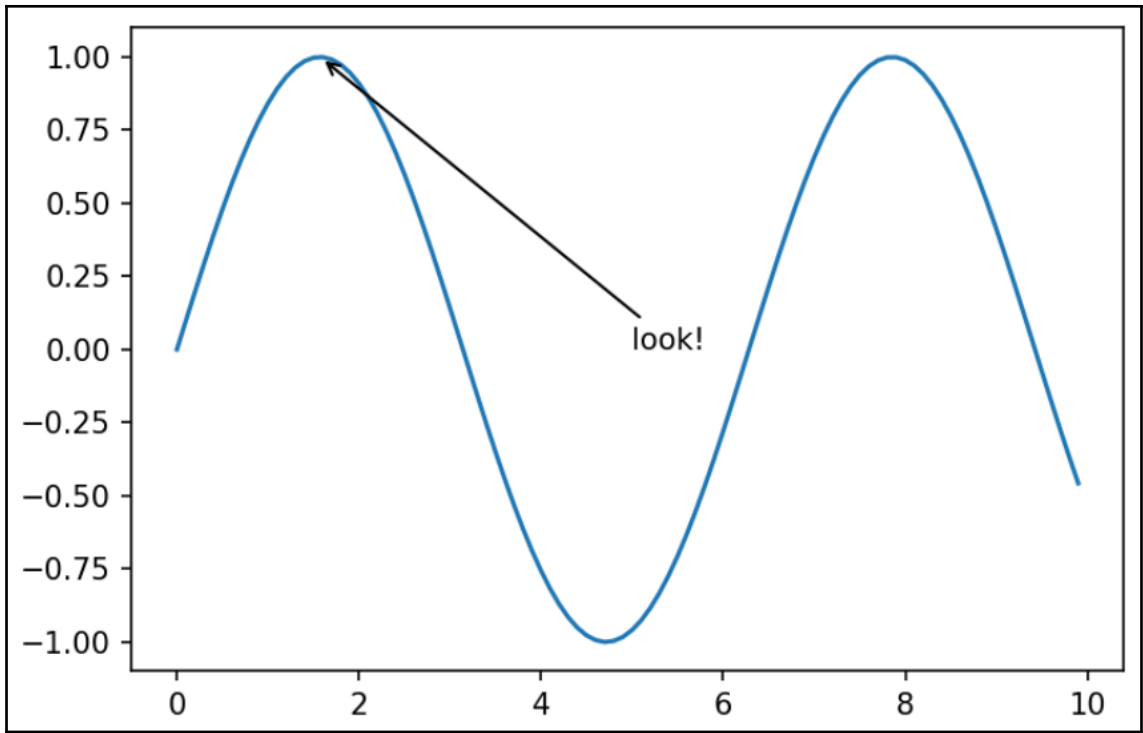




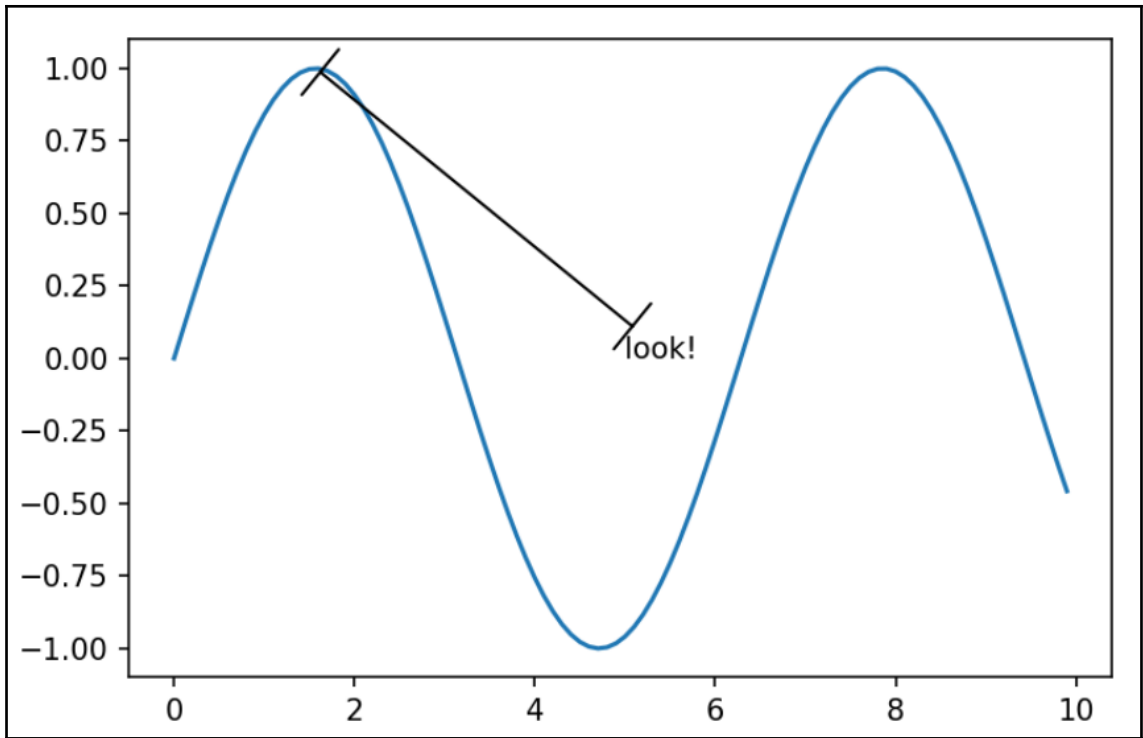


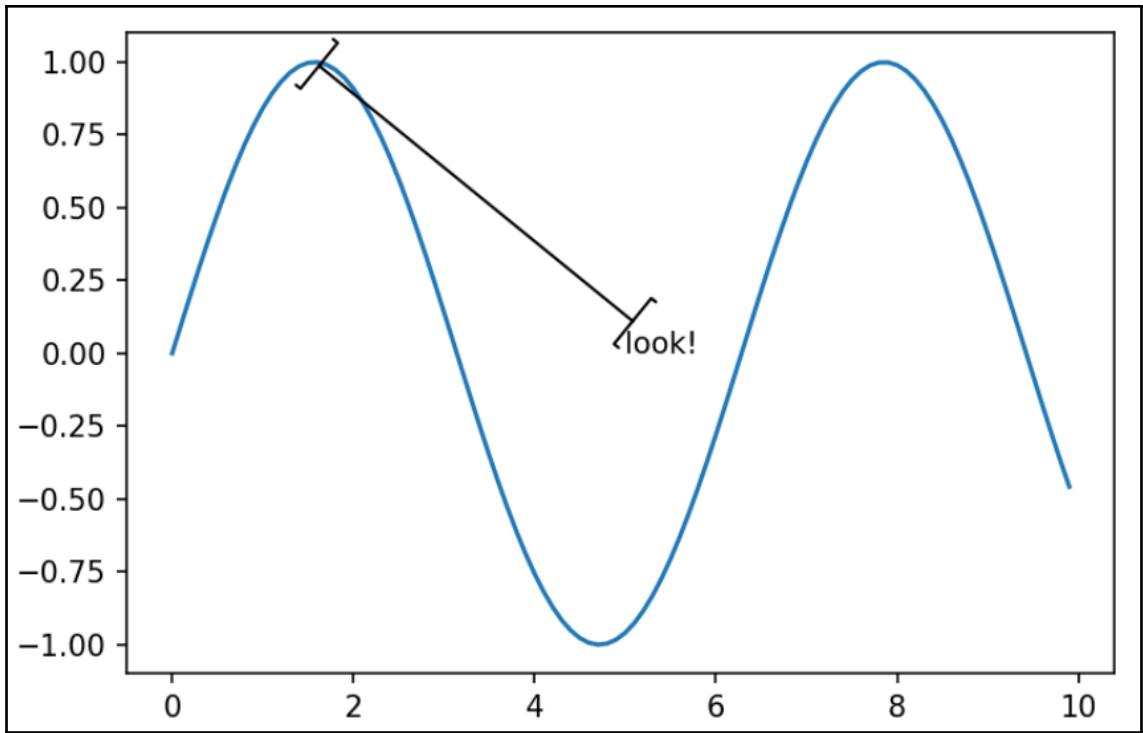


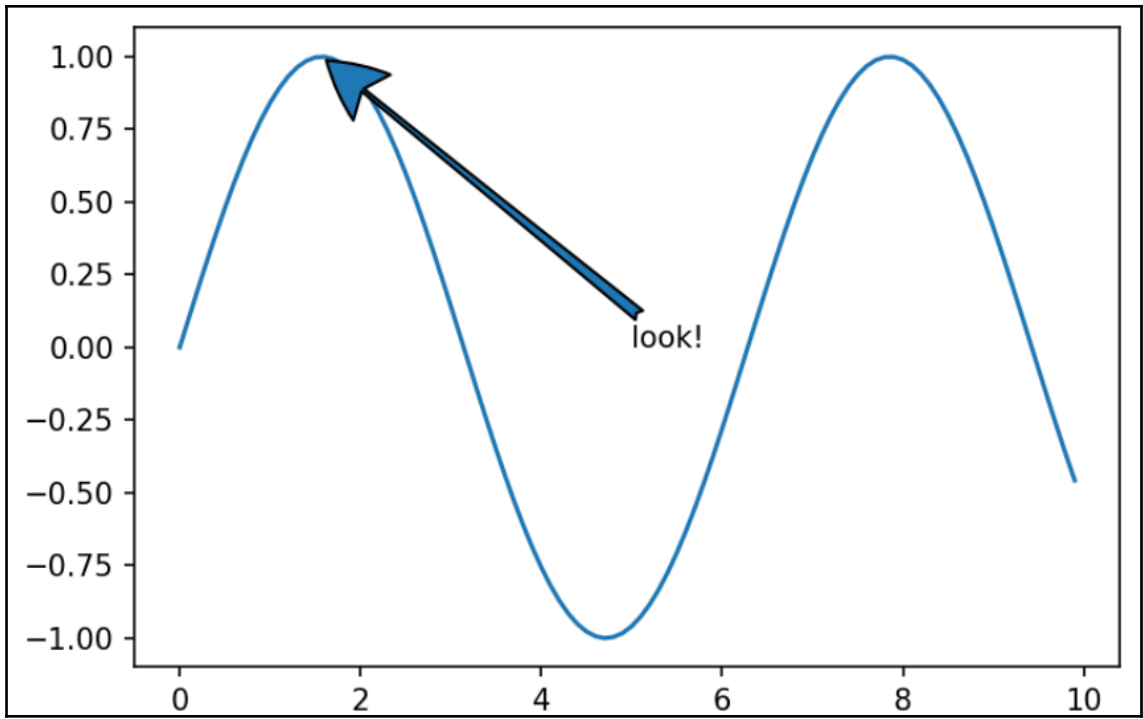


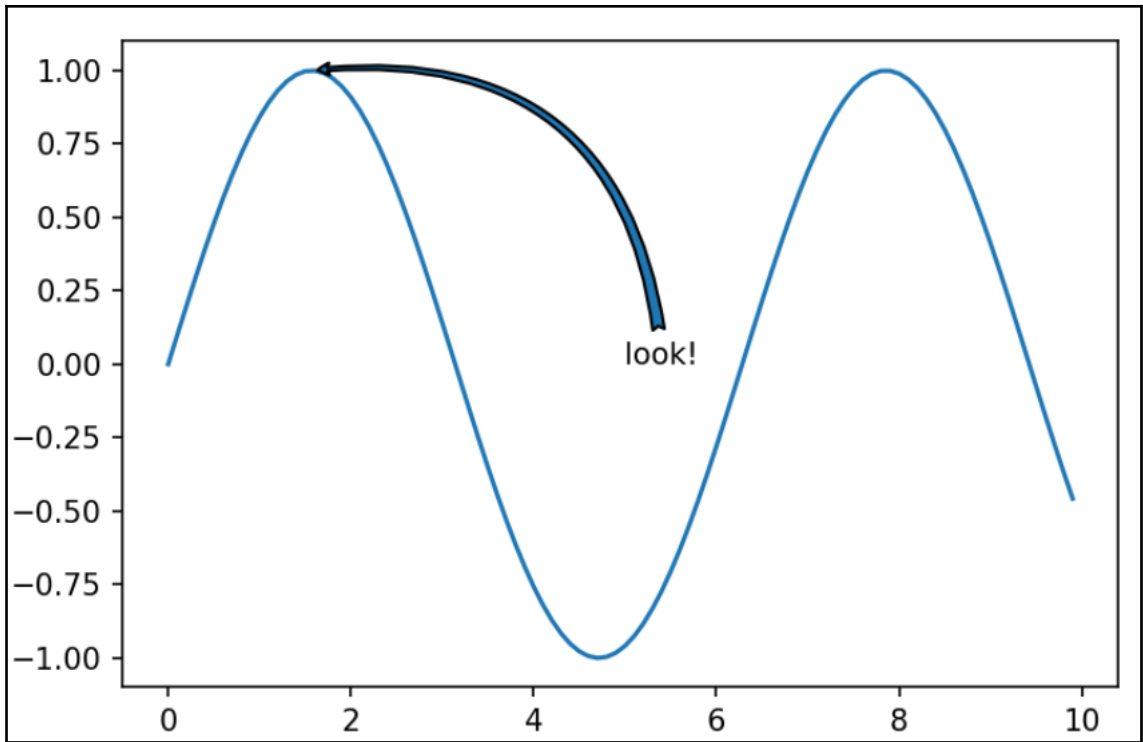


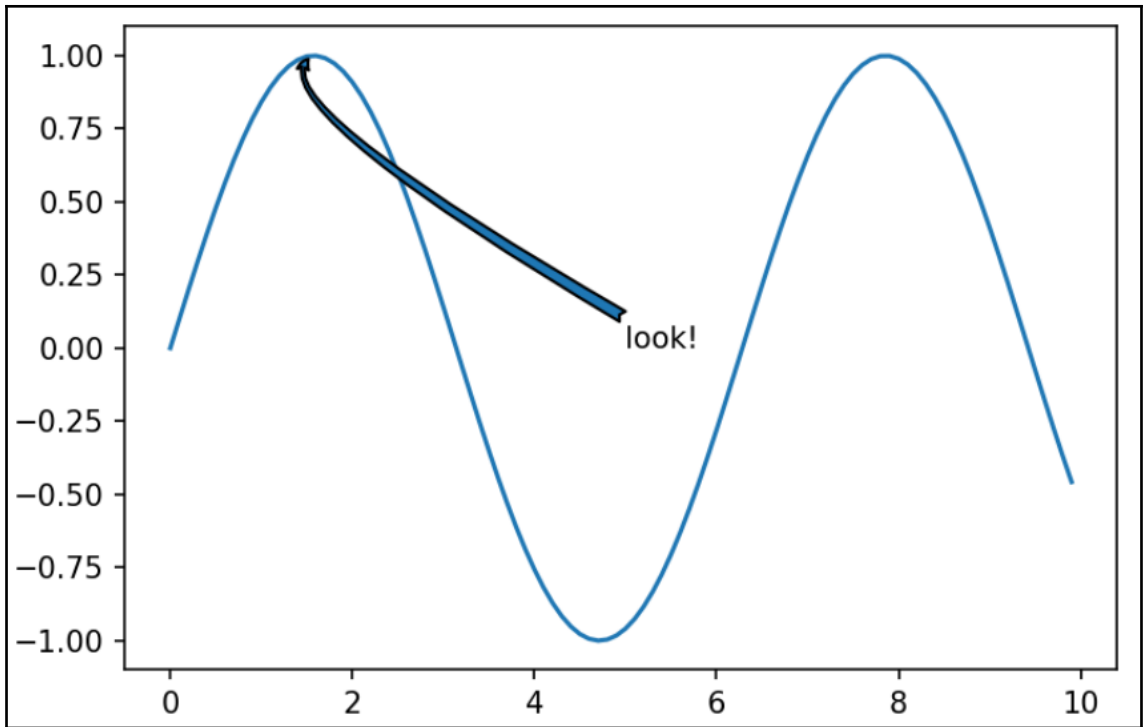






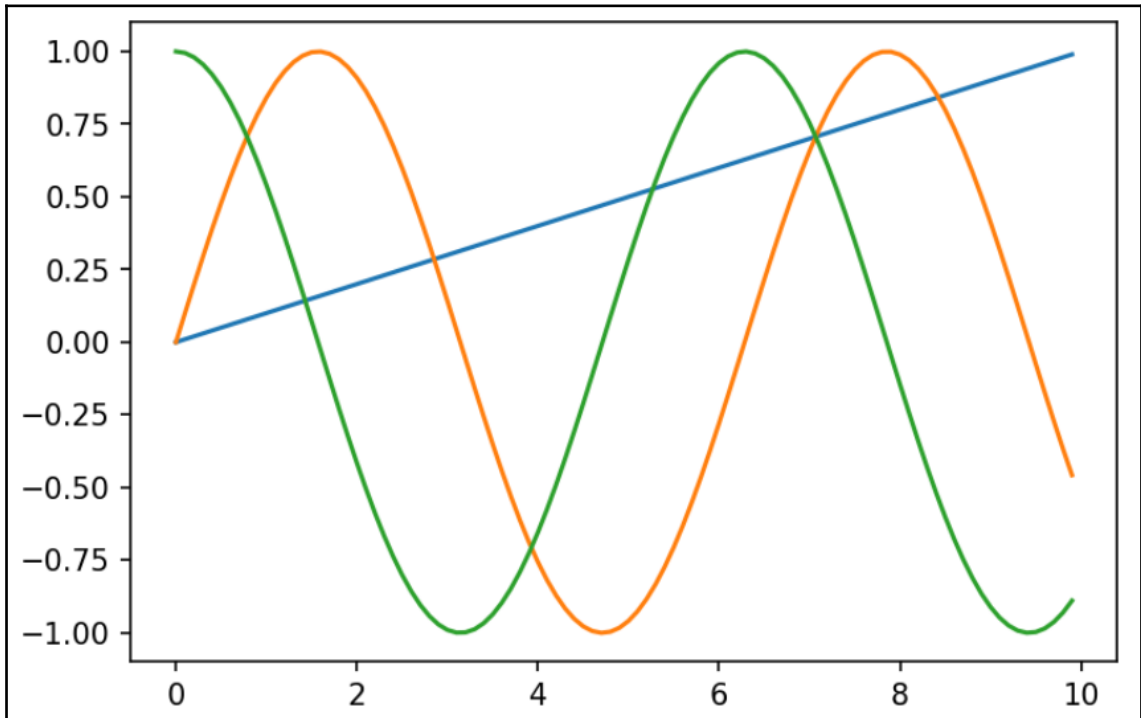


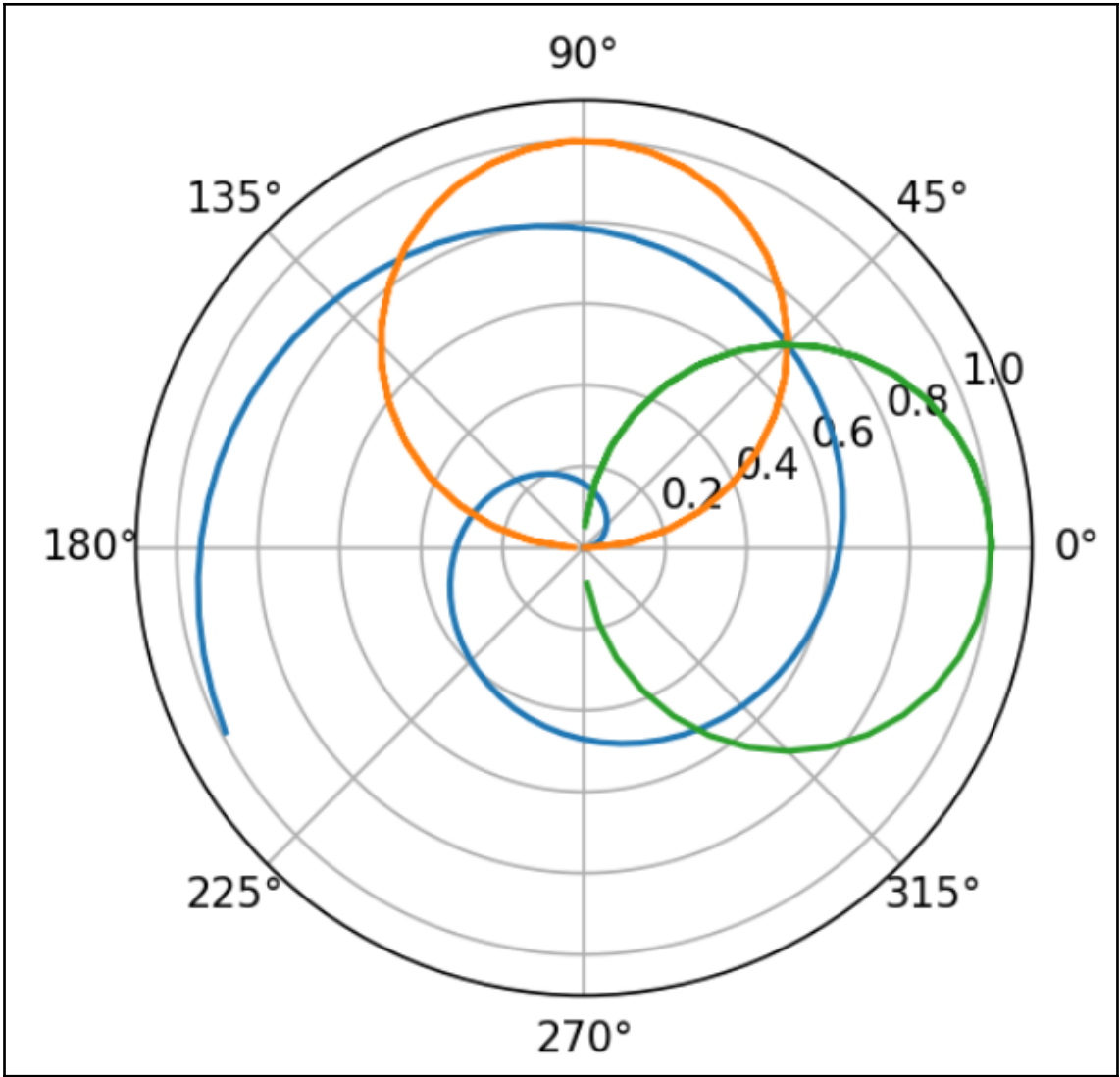


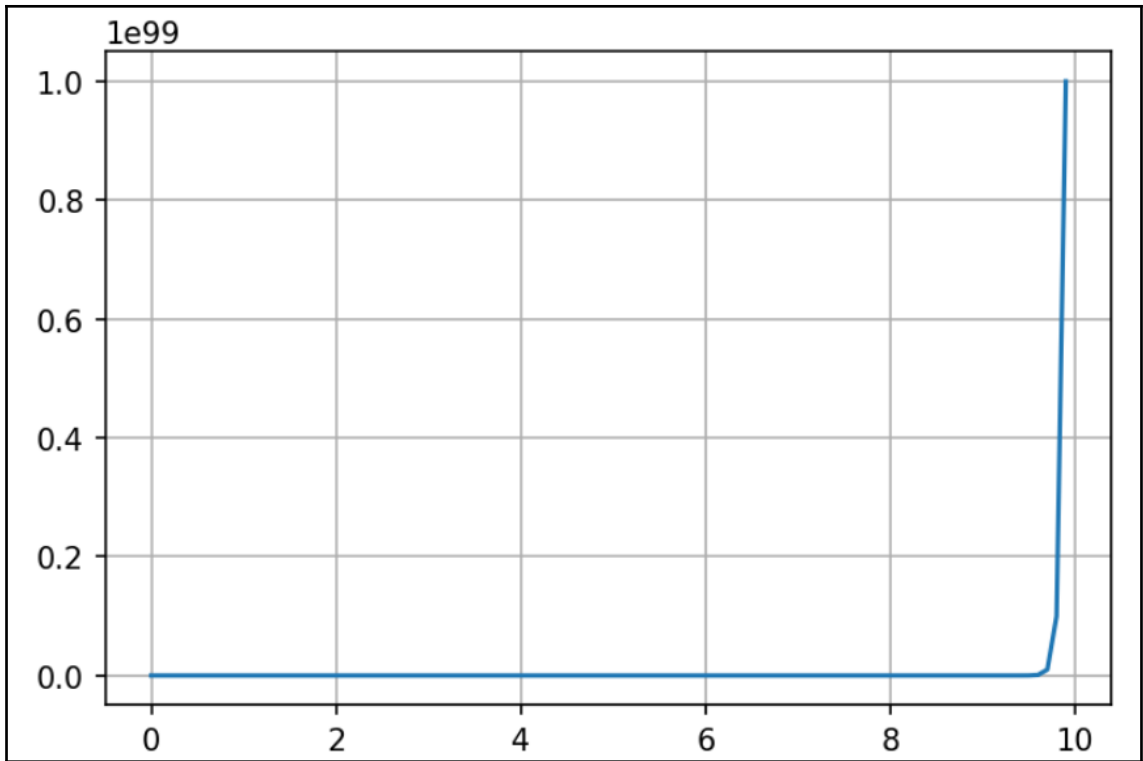


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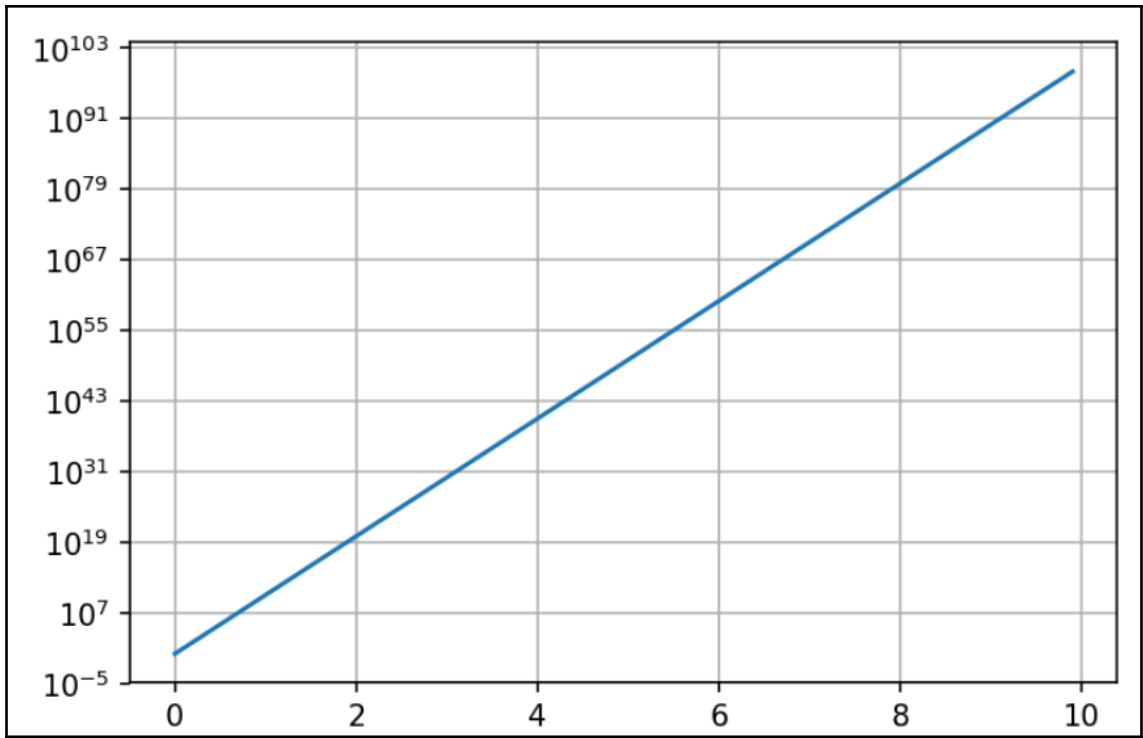
## Chapter 3: Special Purpose Plots

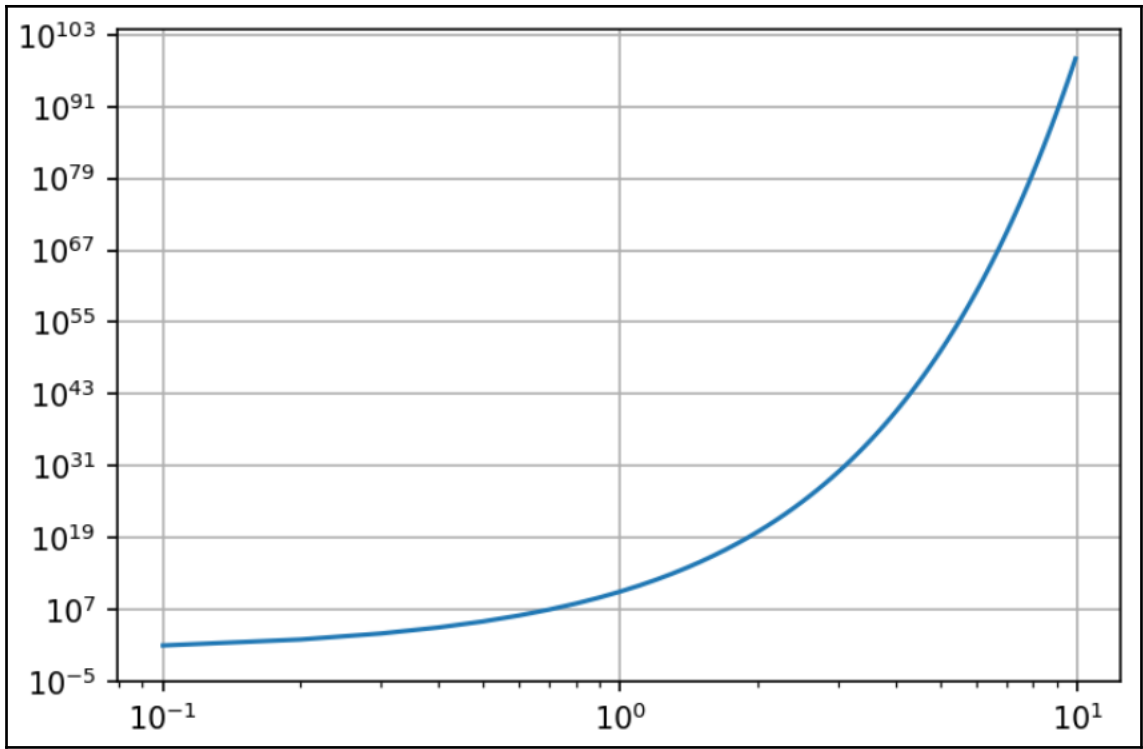


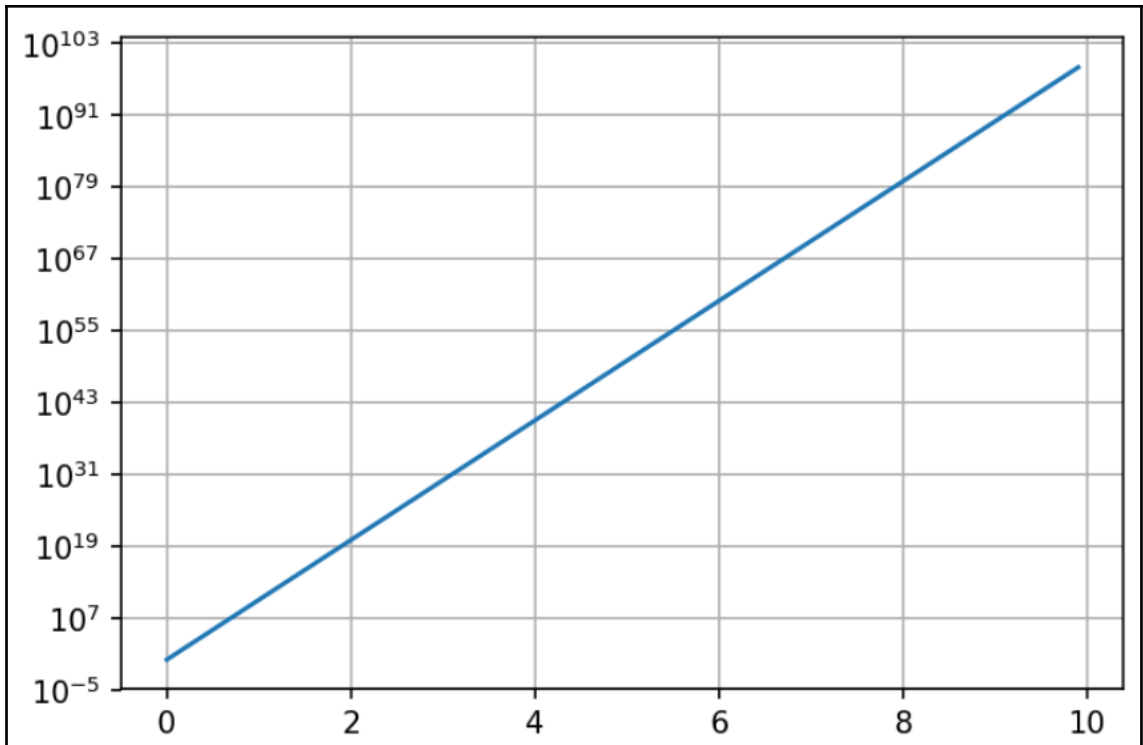


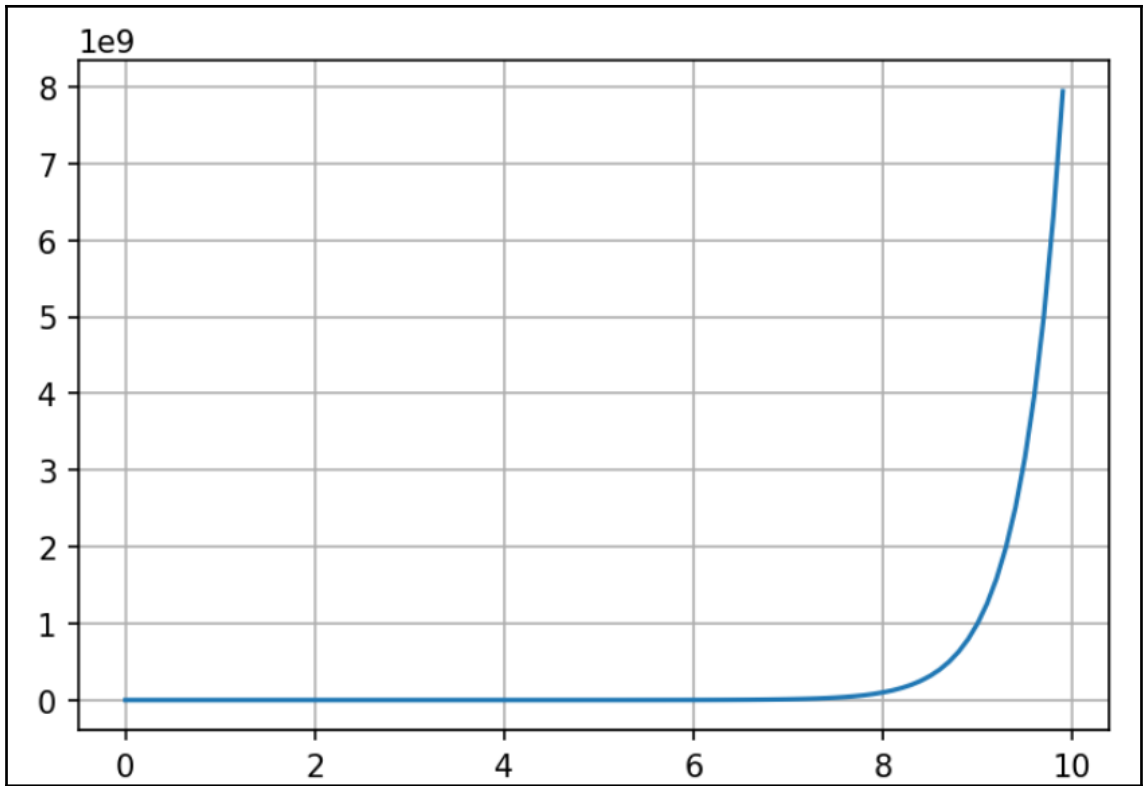


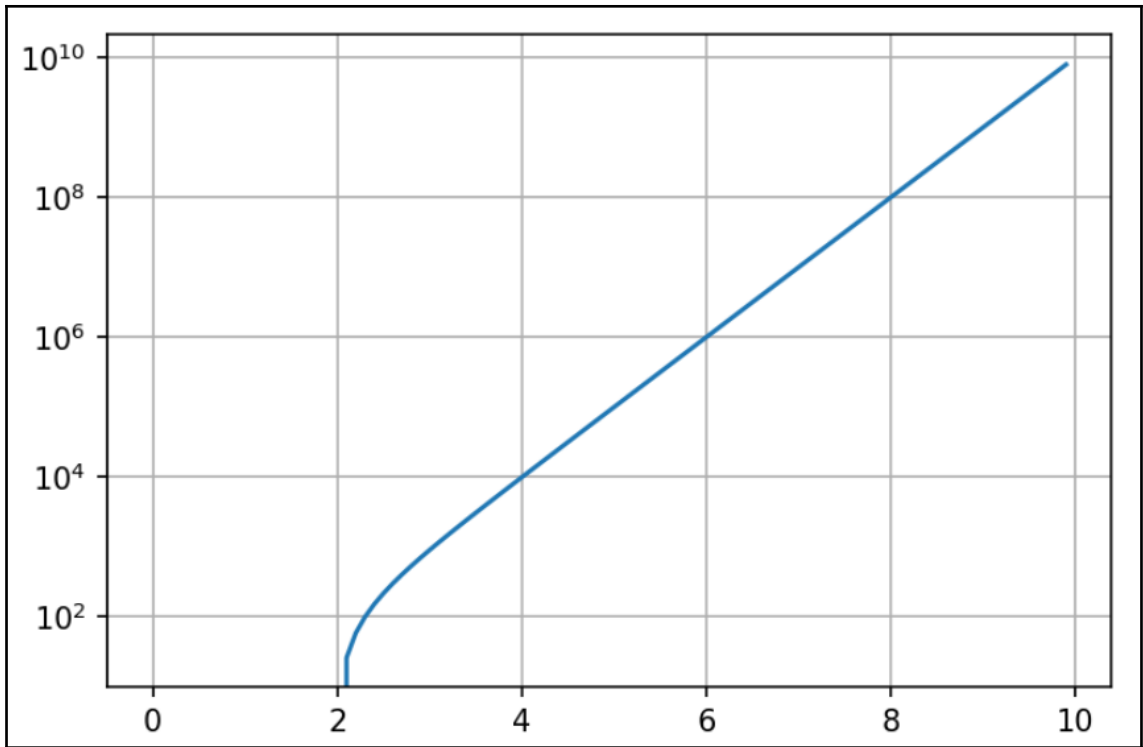


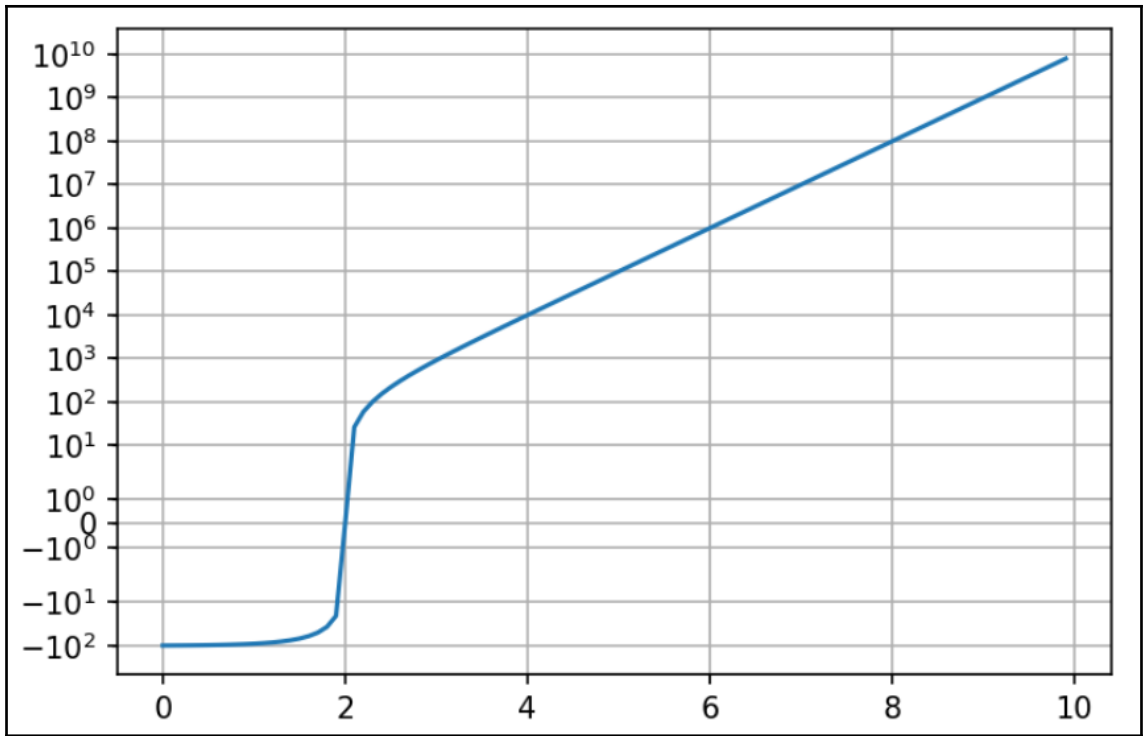


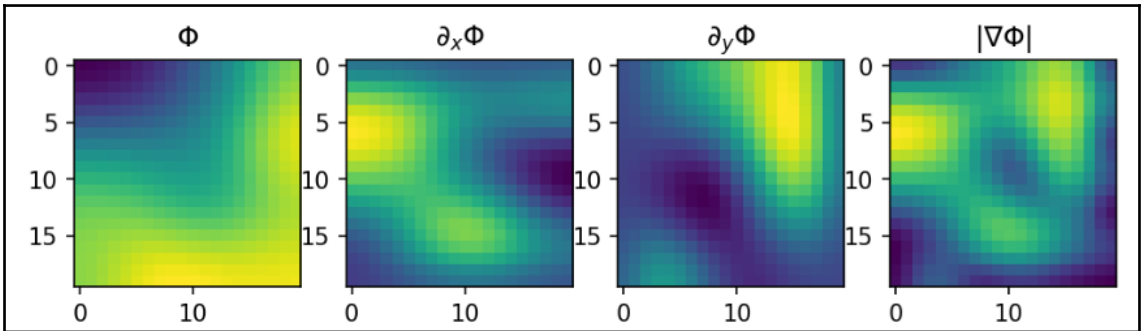
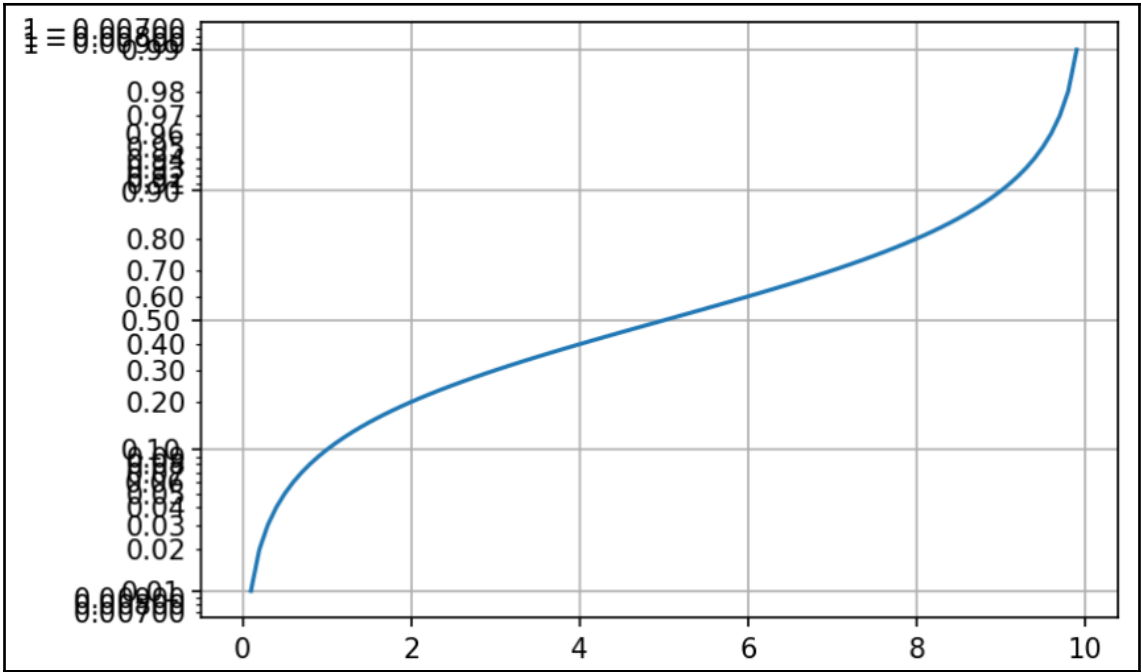


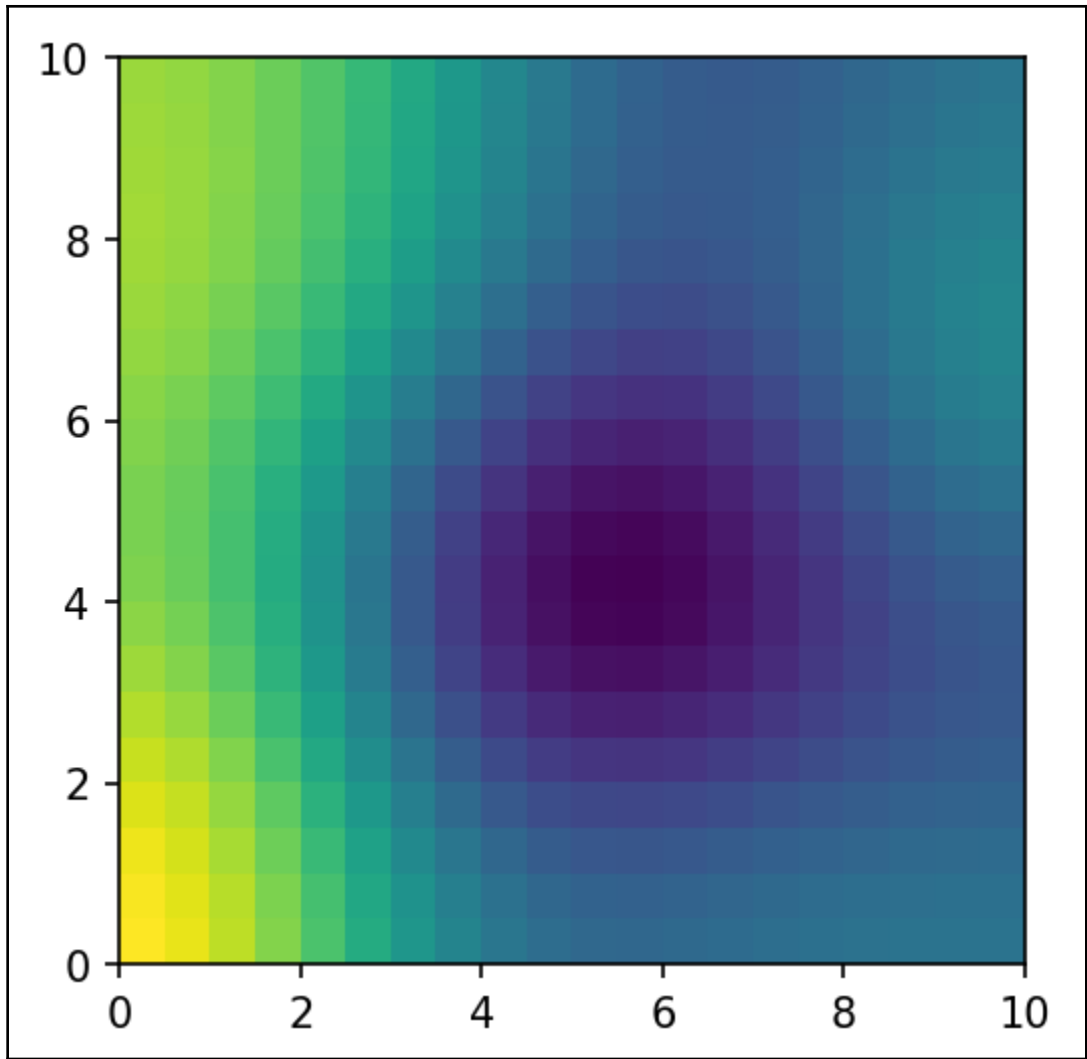




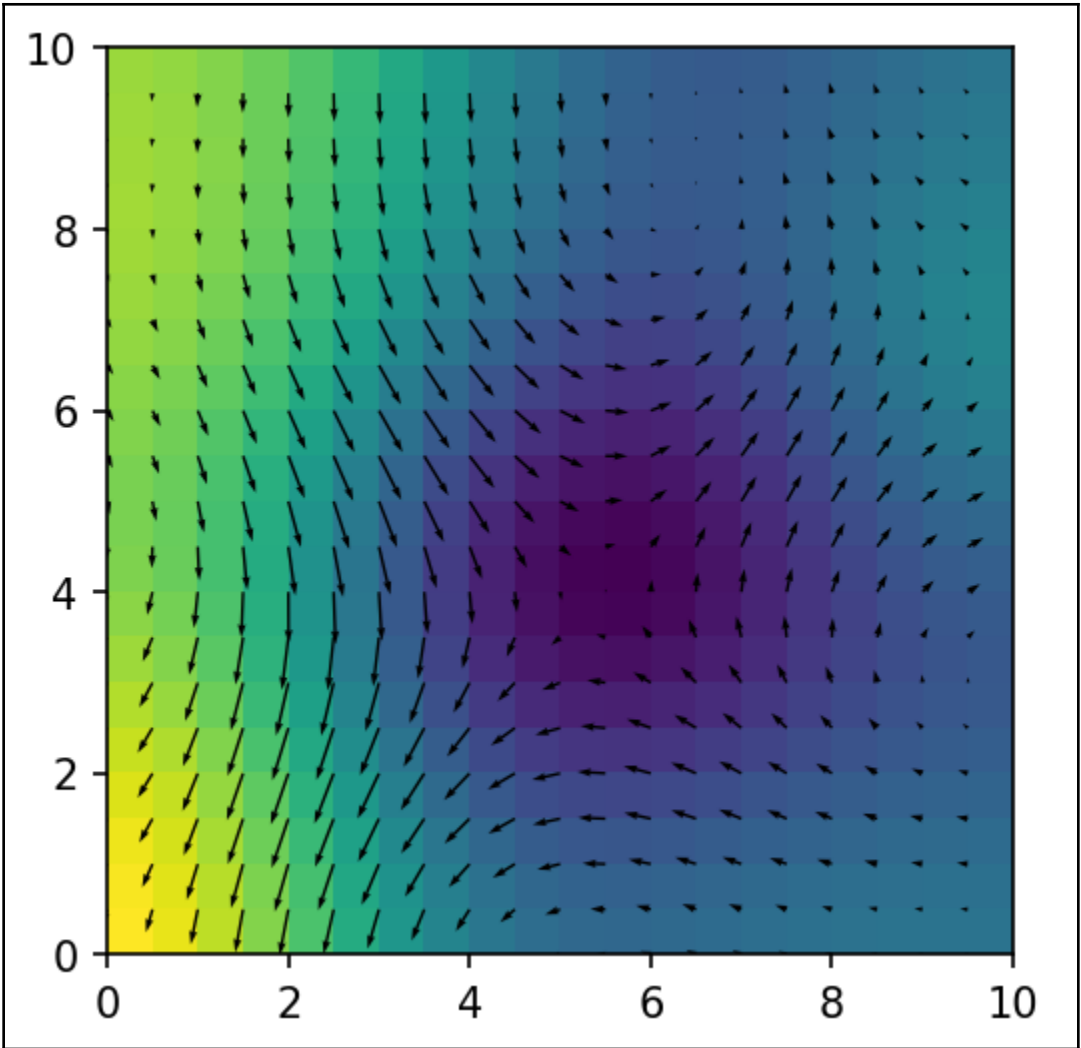


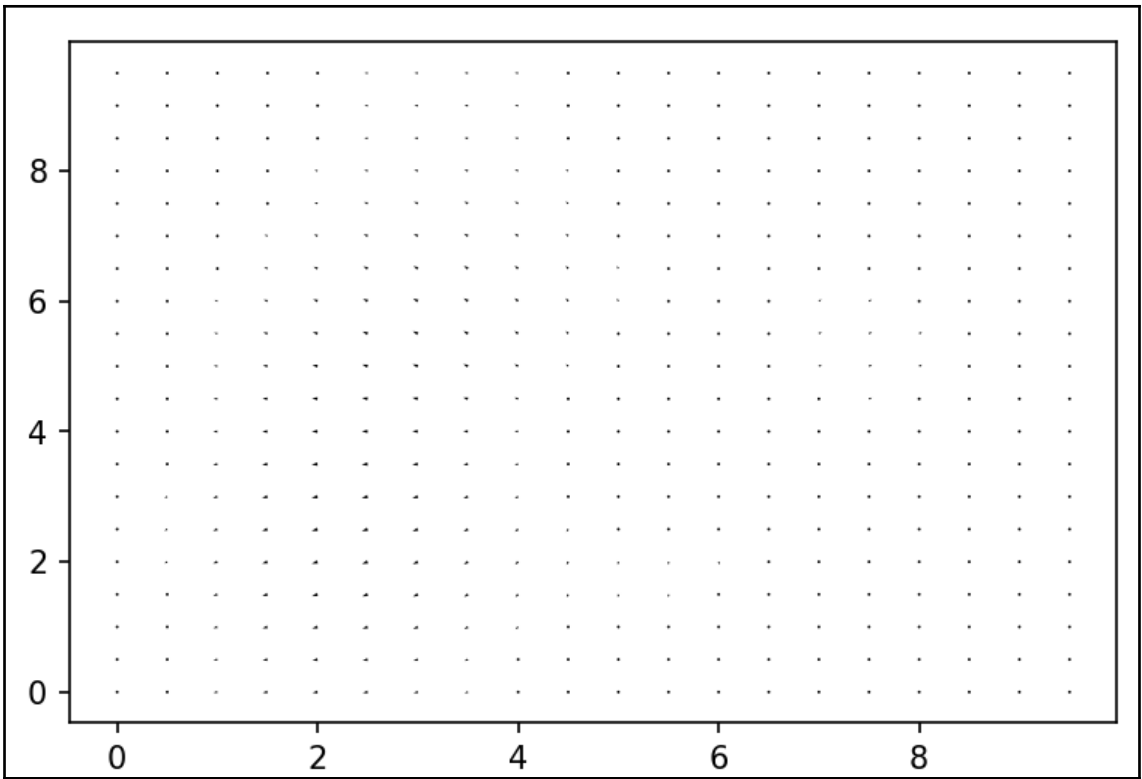


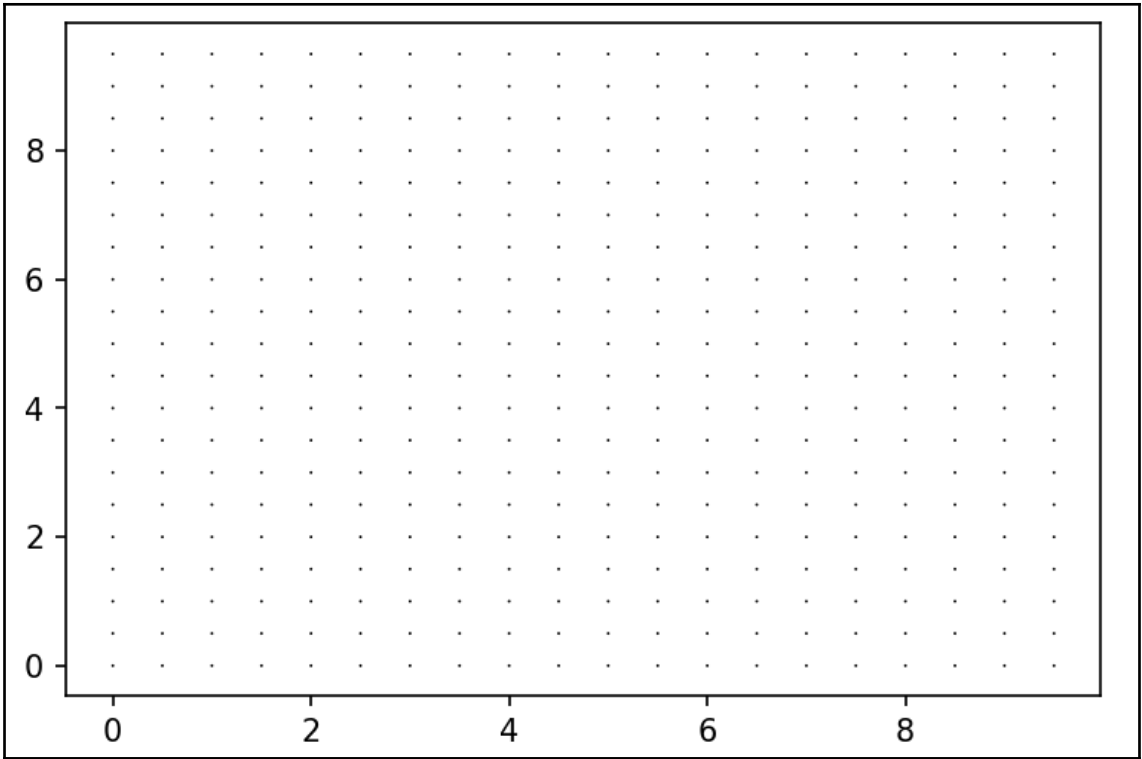


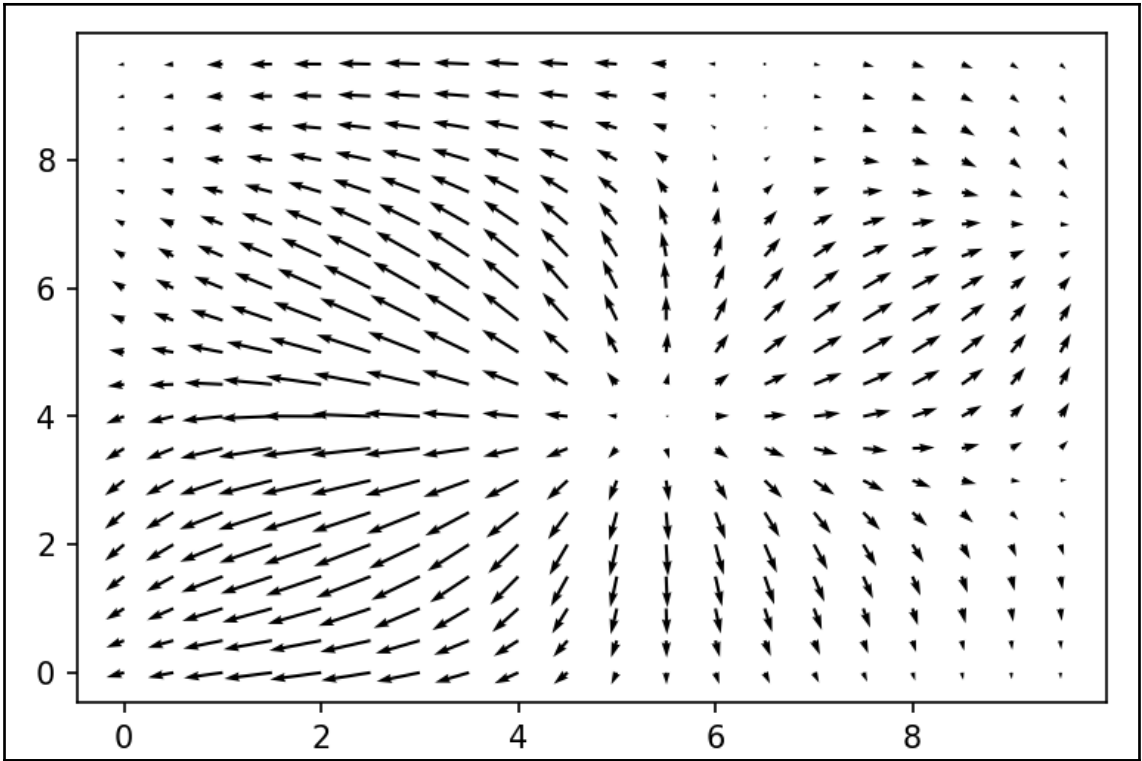


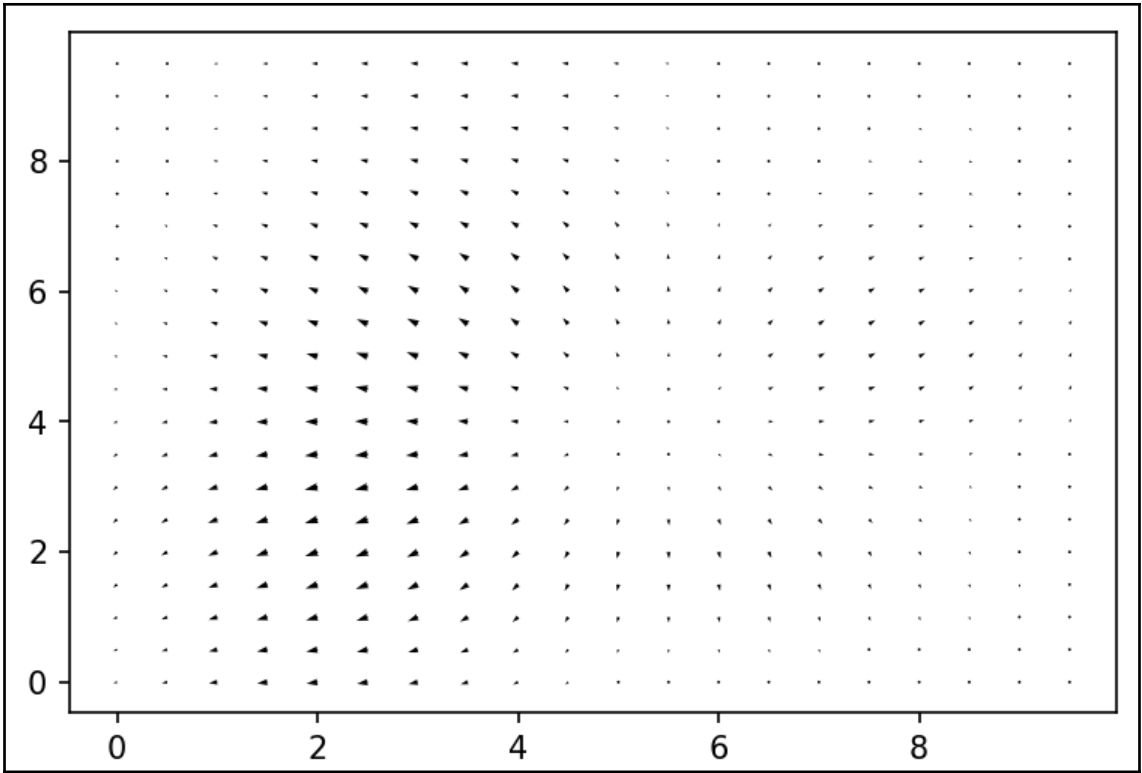


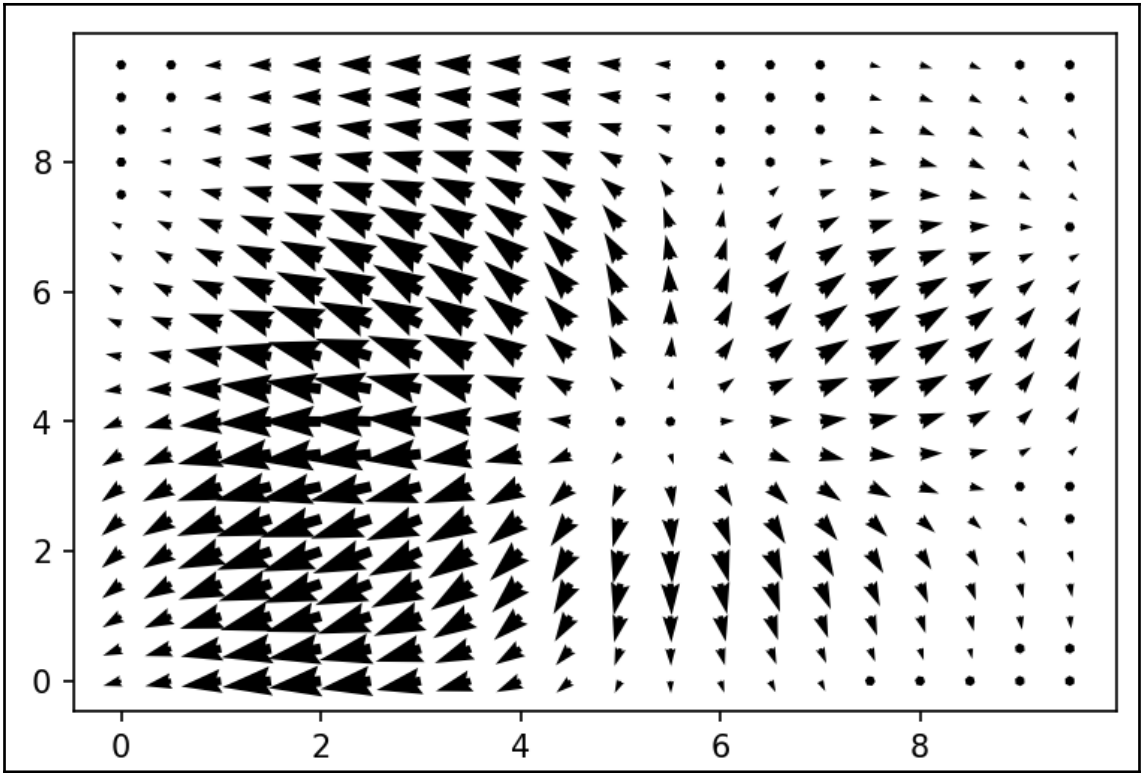


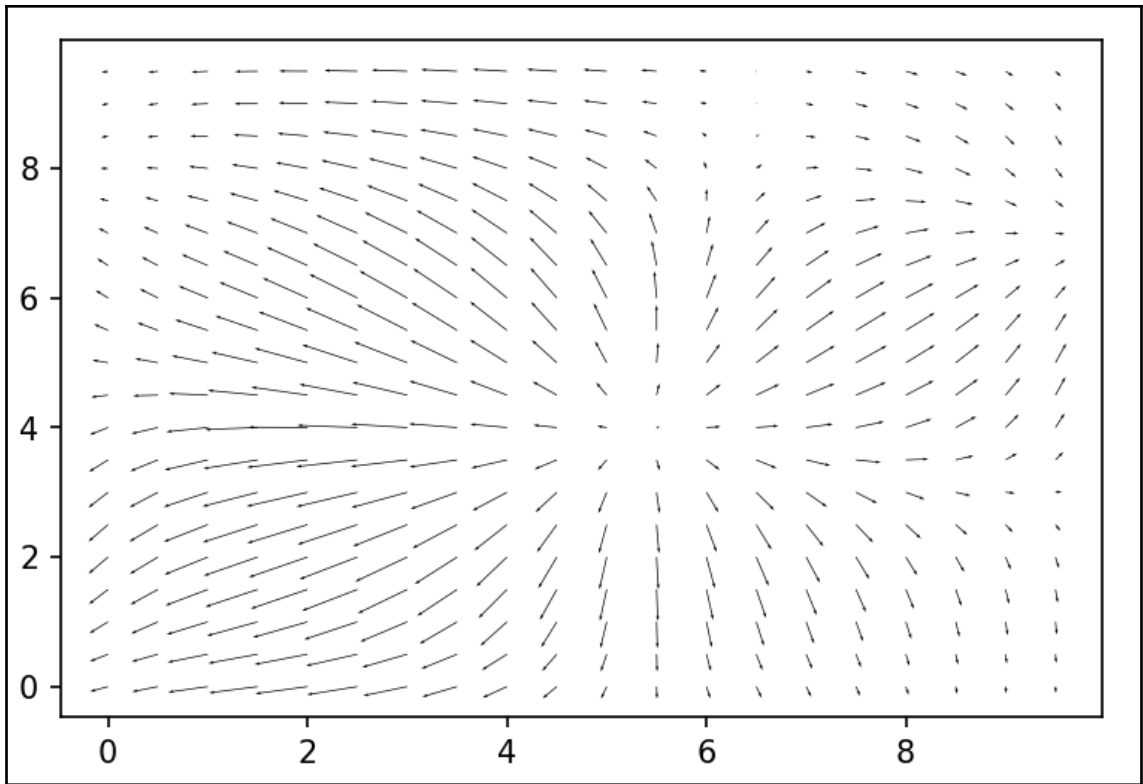


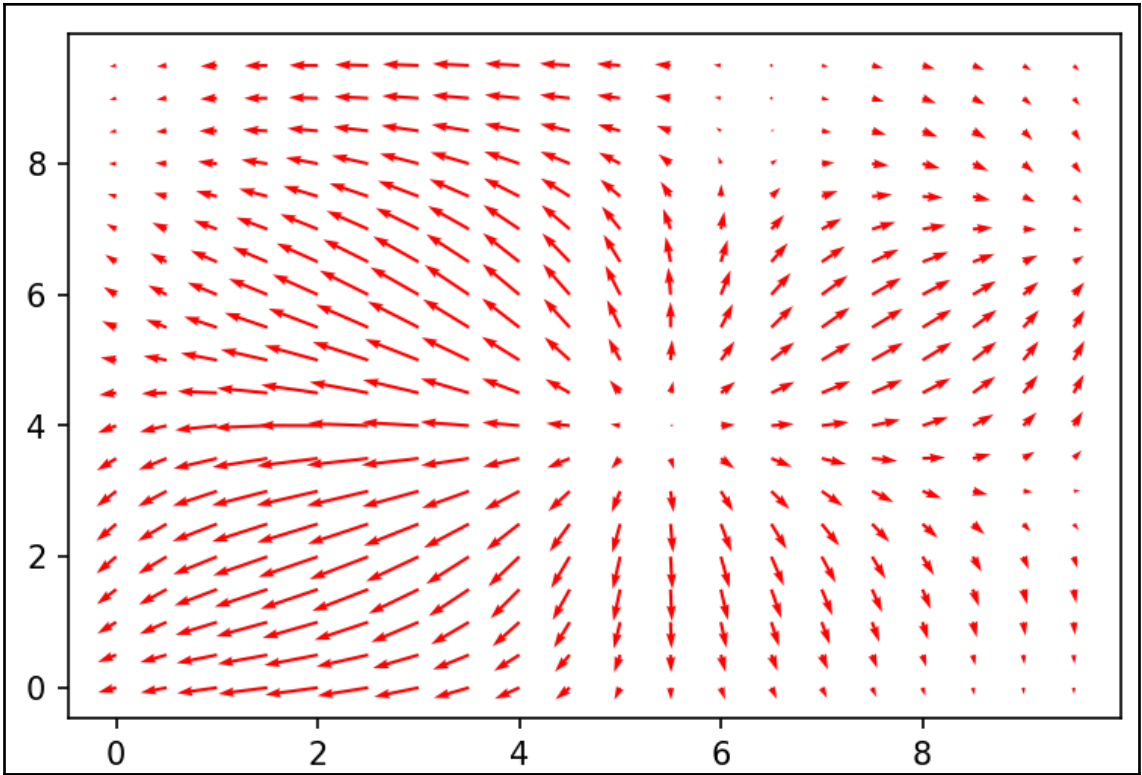




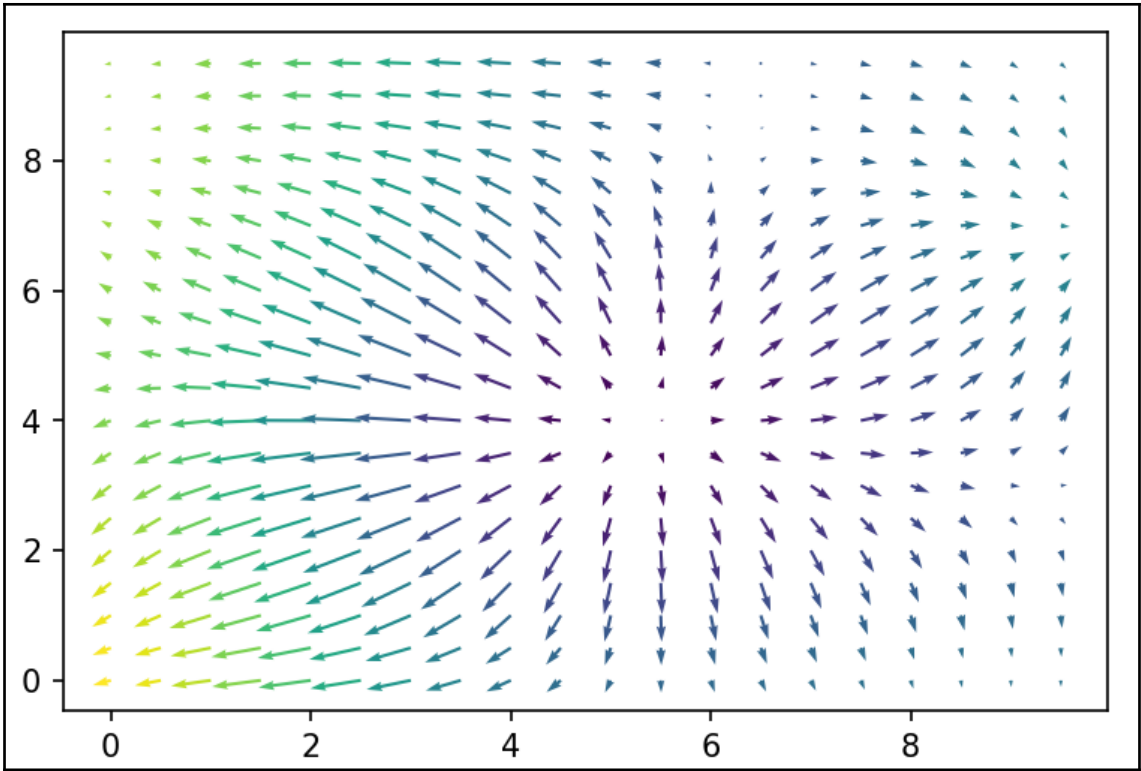


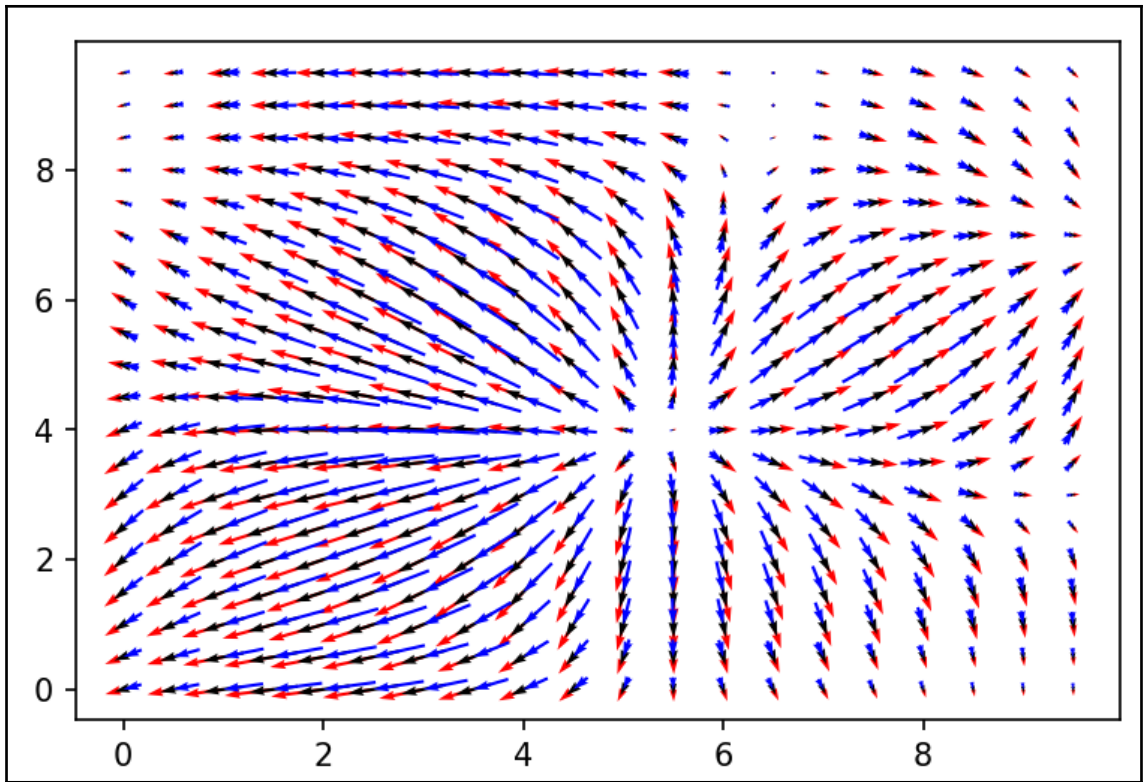


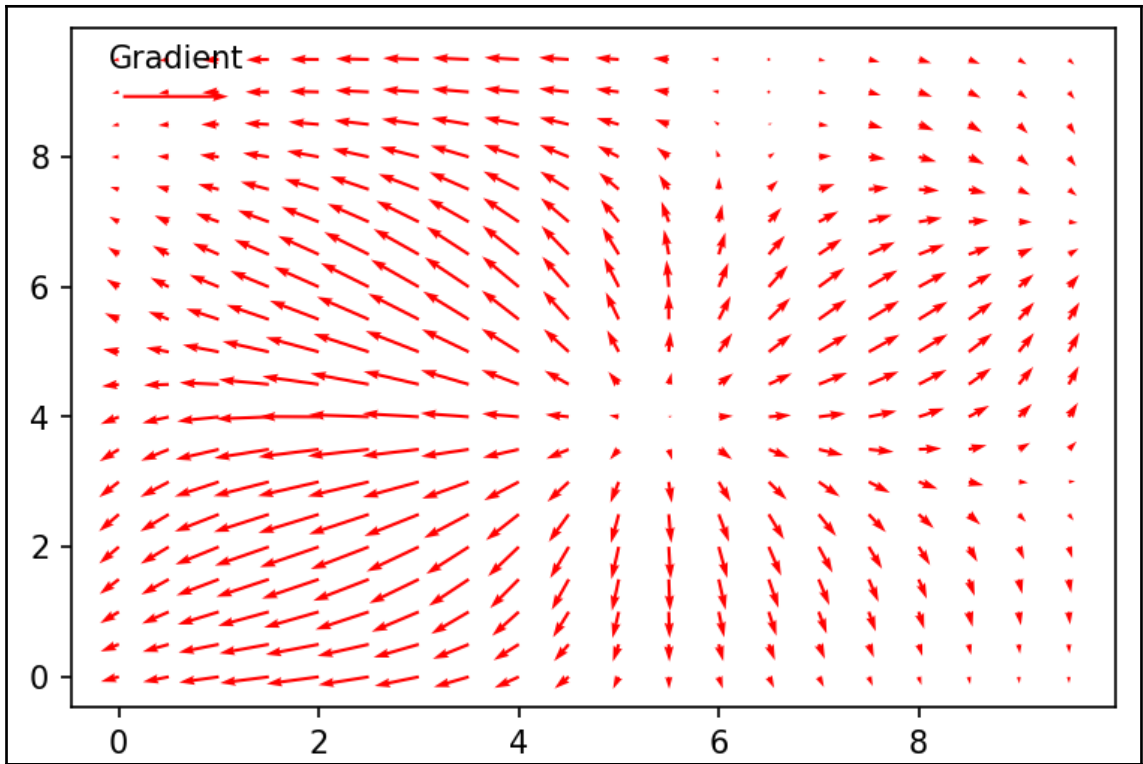


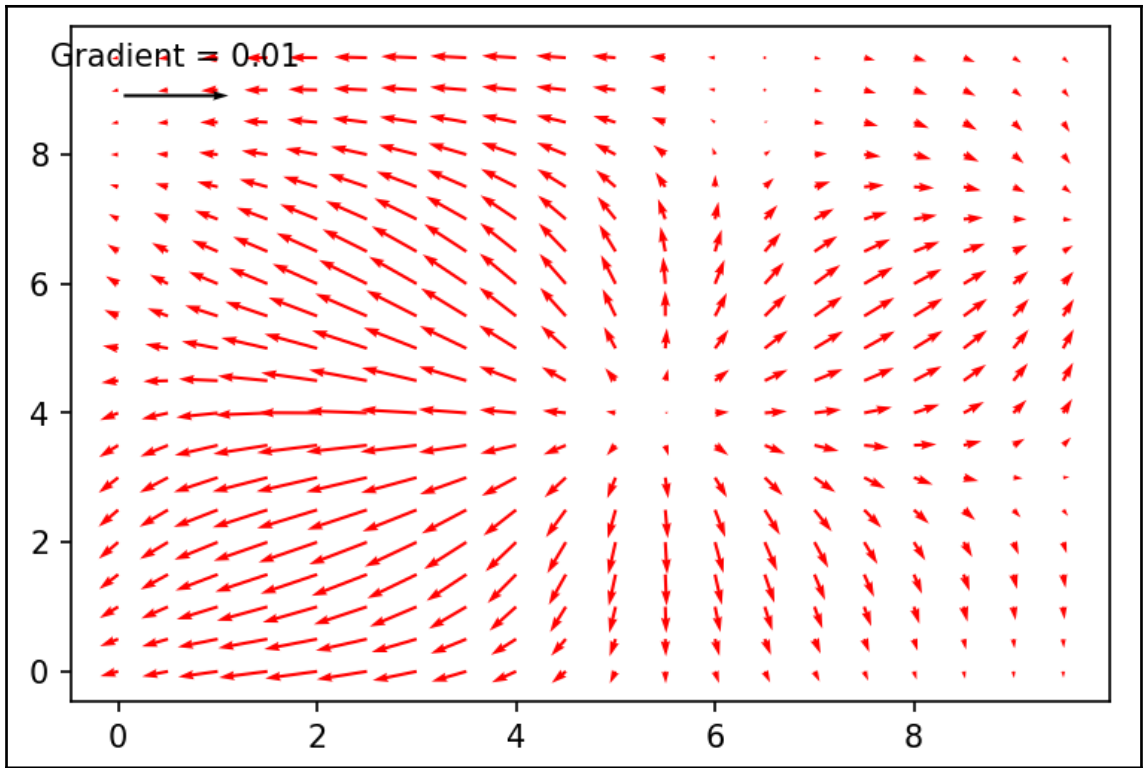


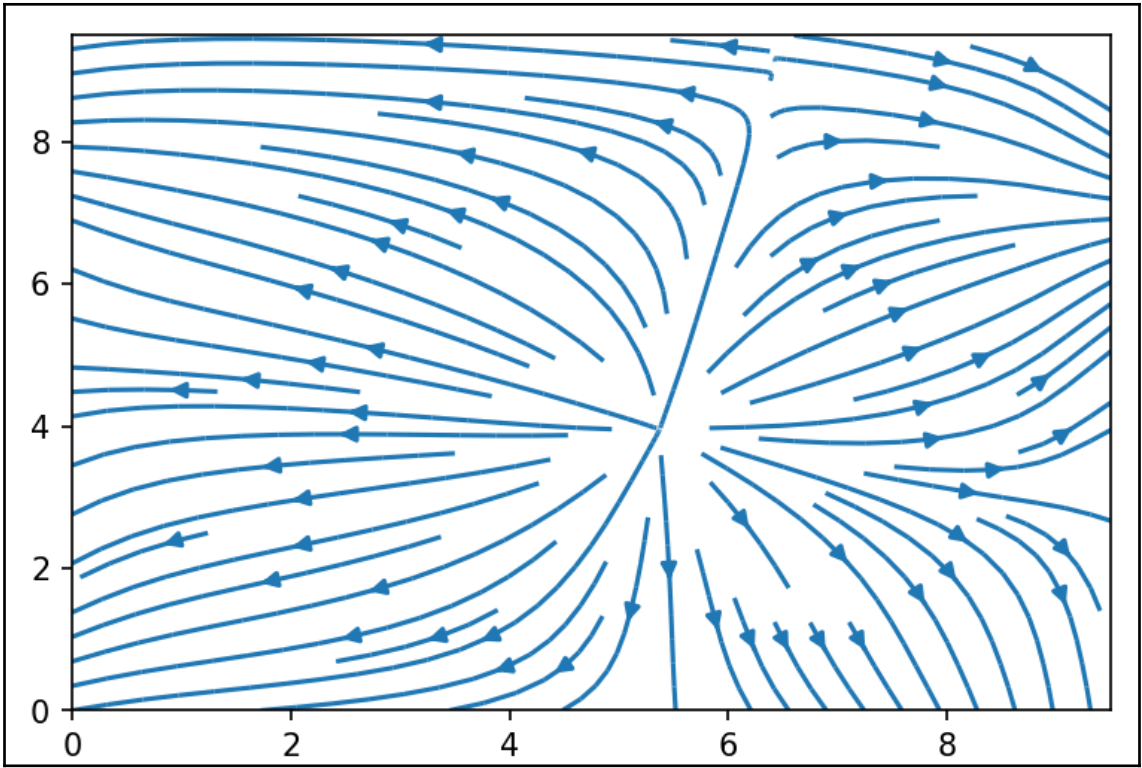


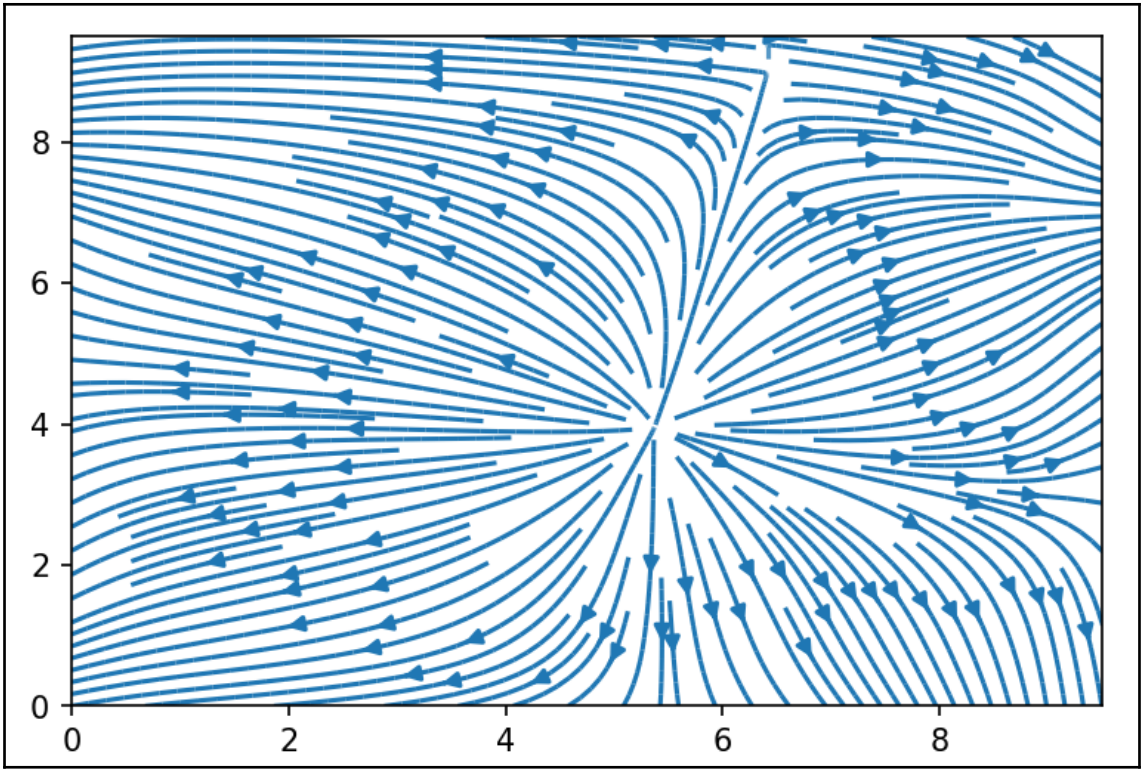


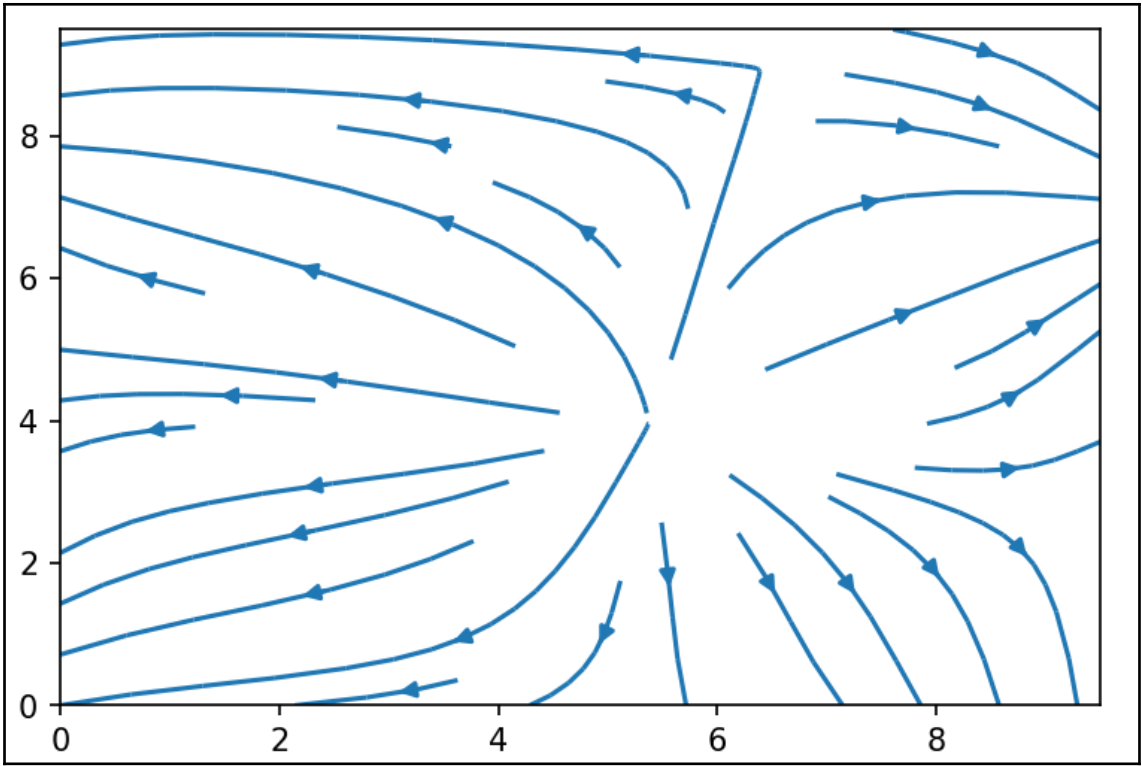


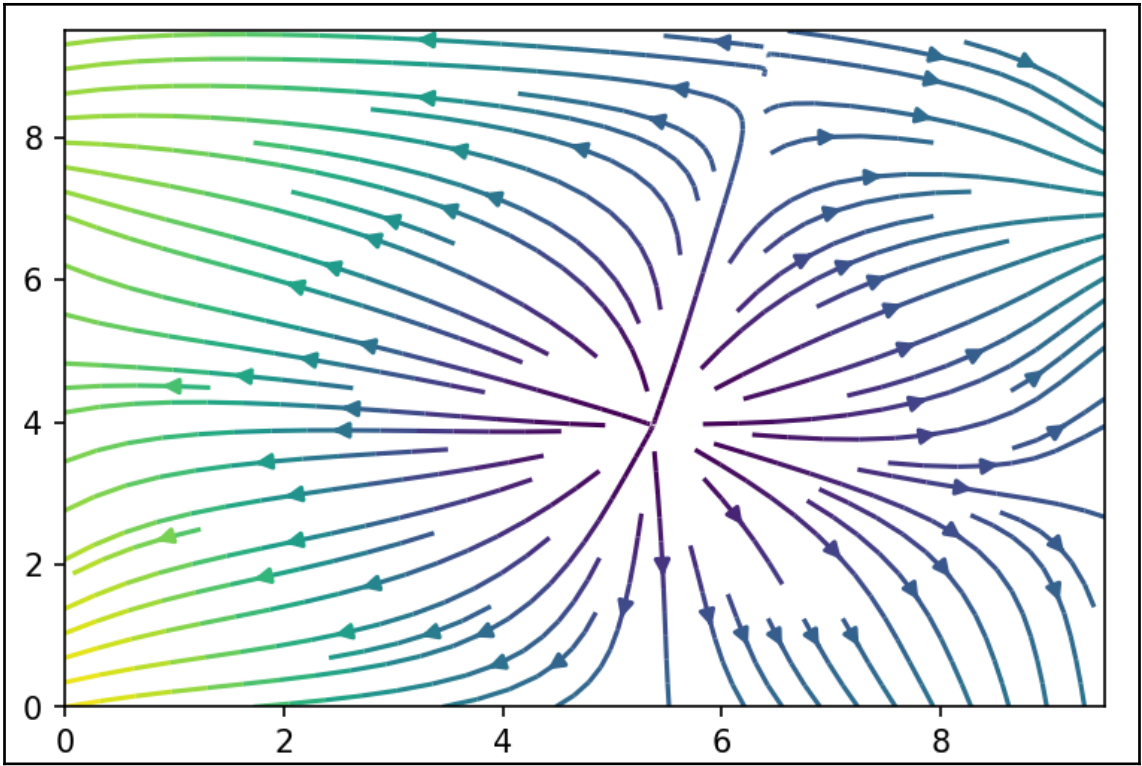




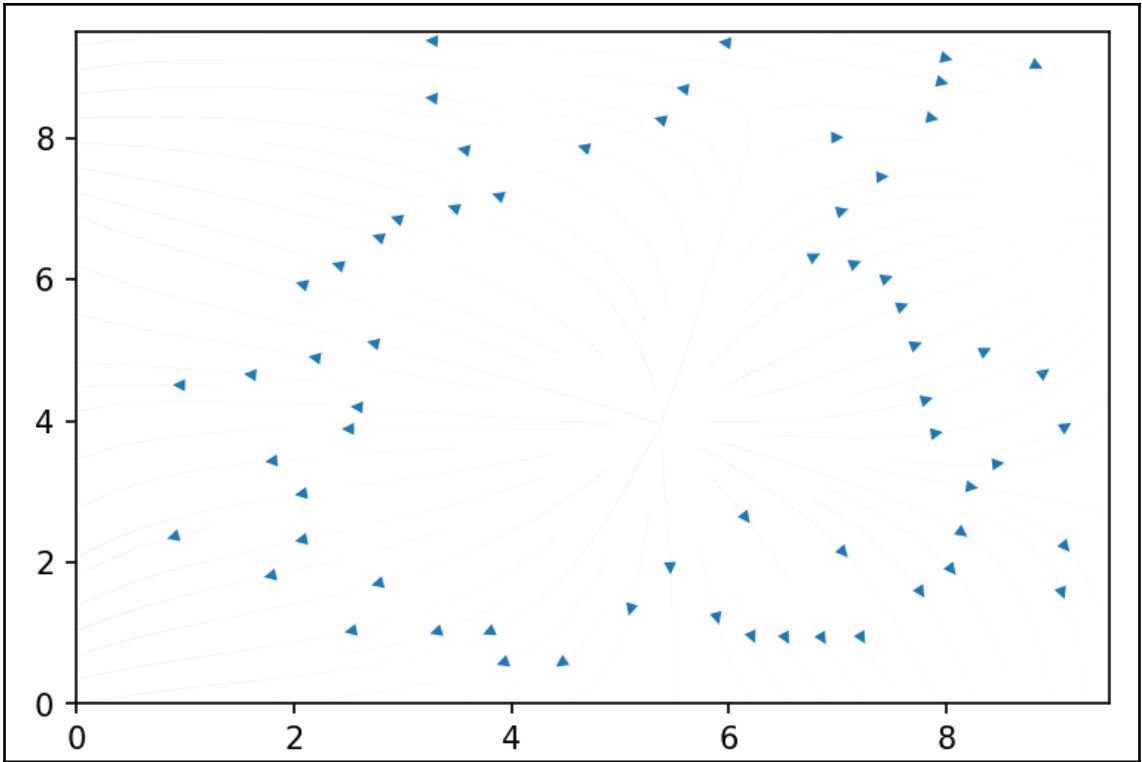


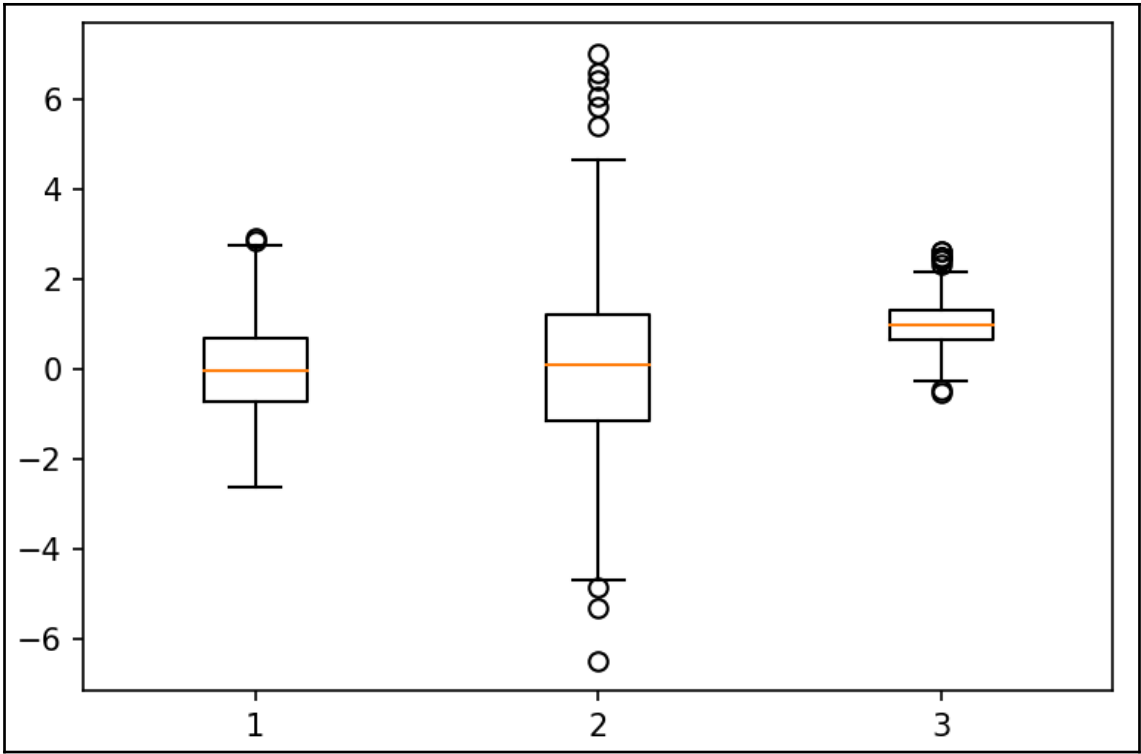


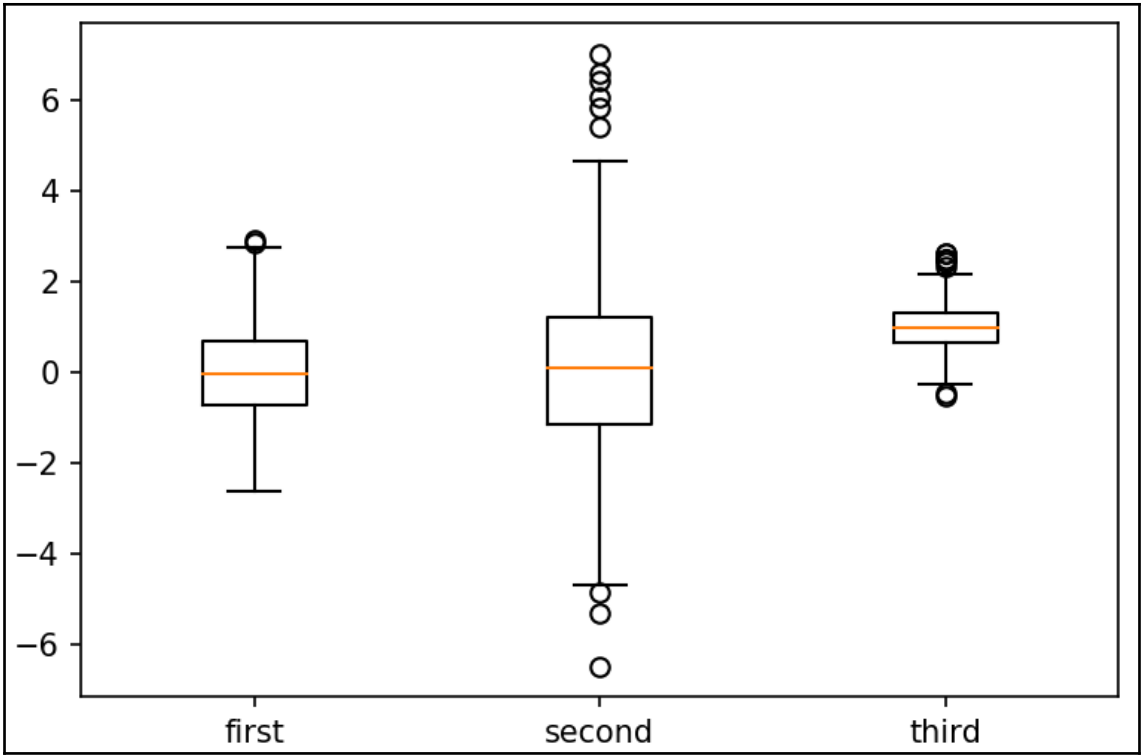


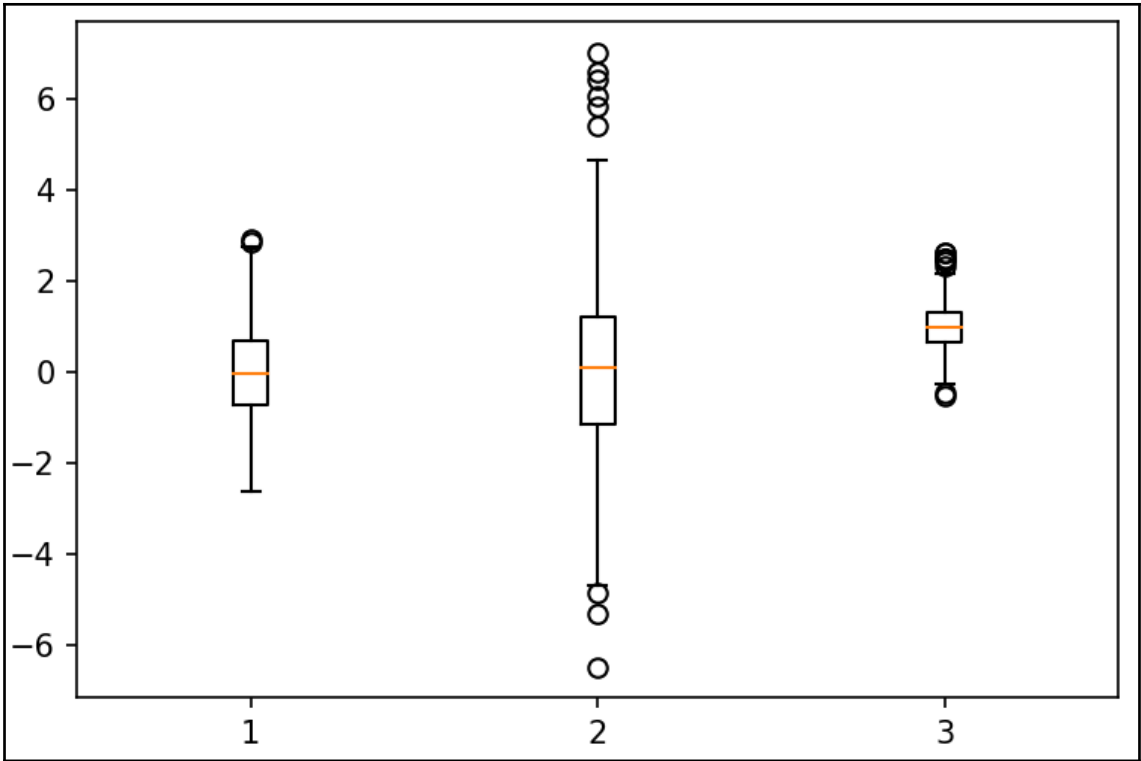


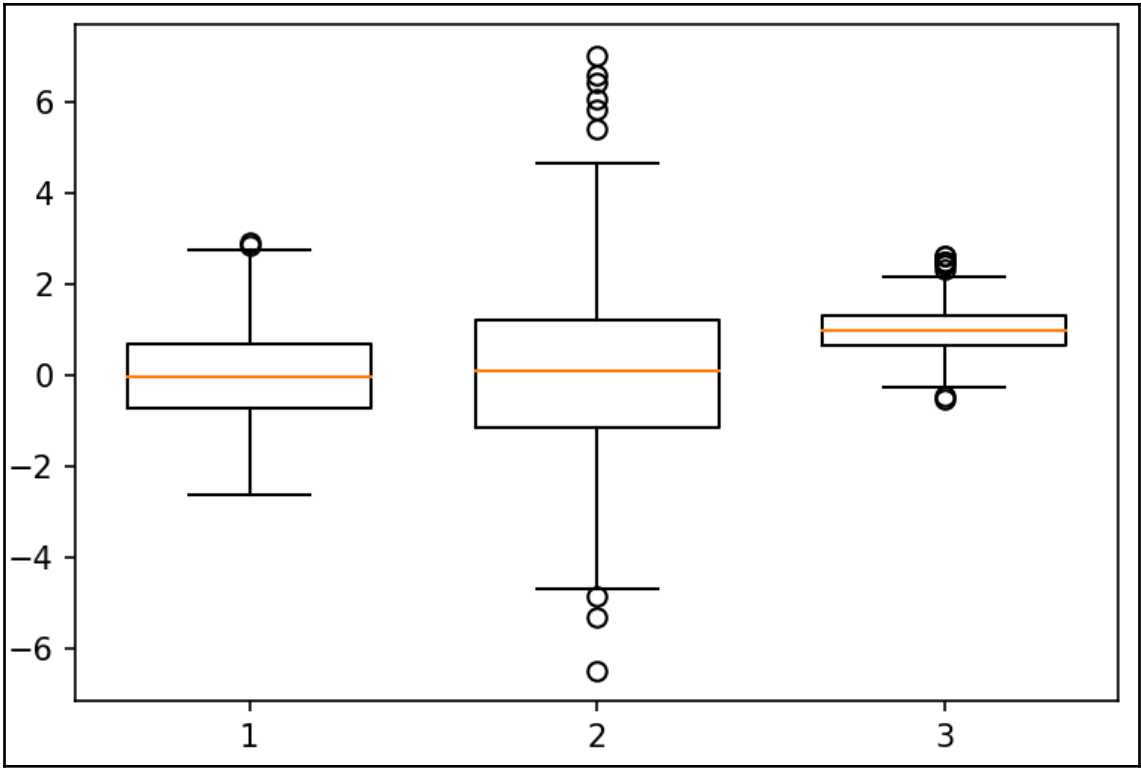


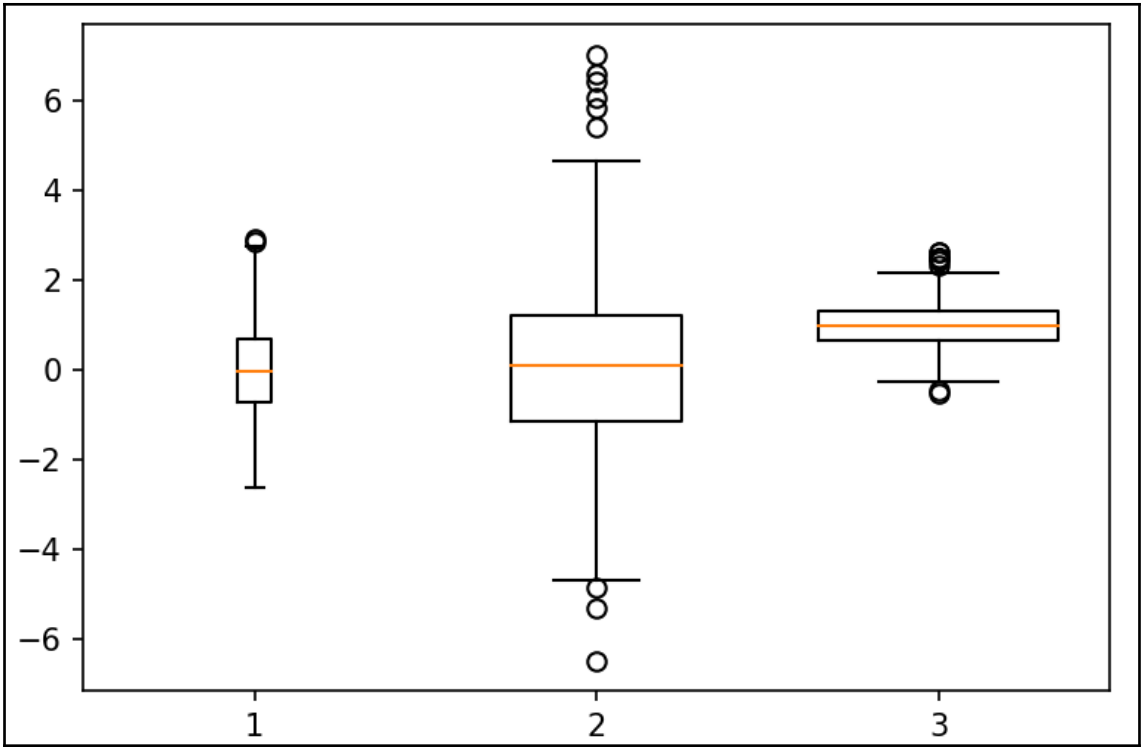


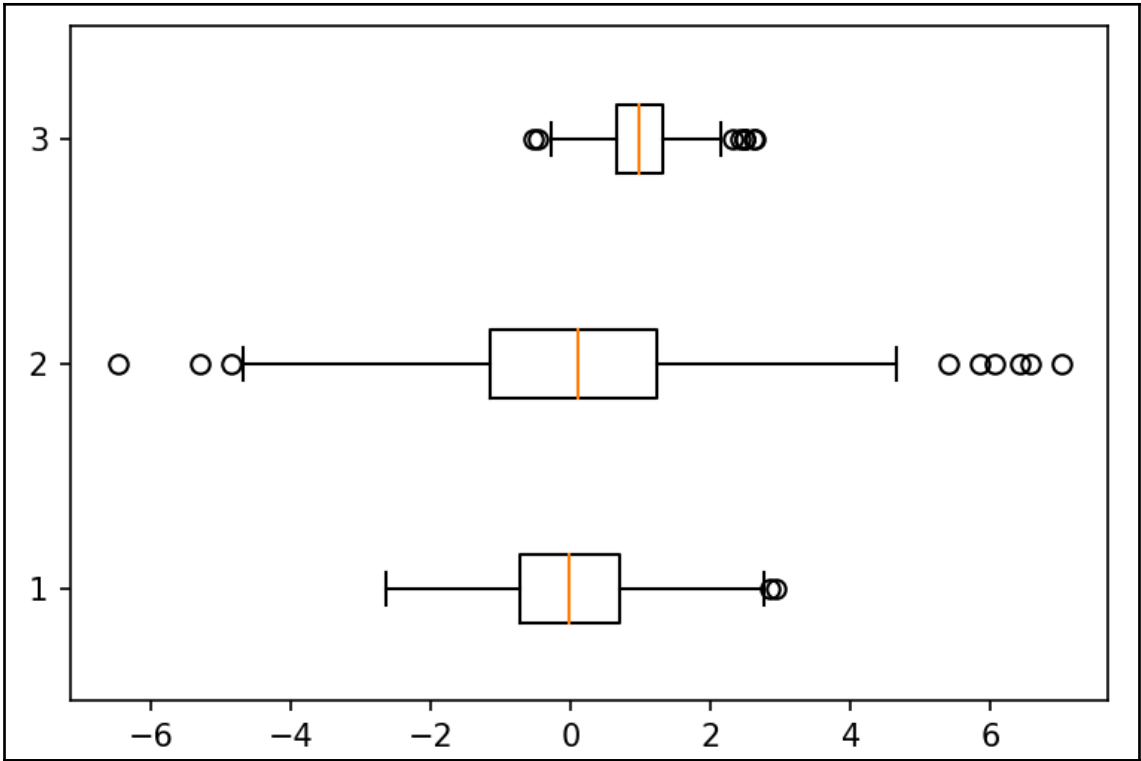


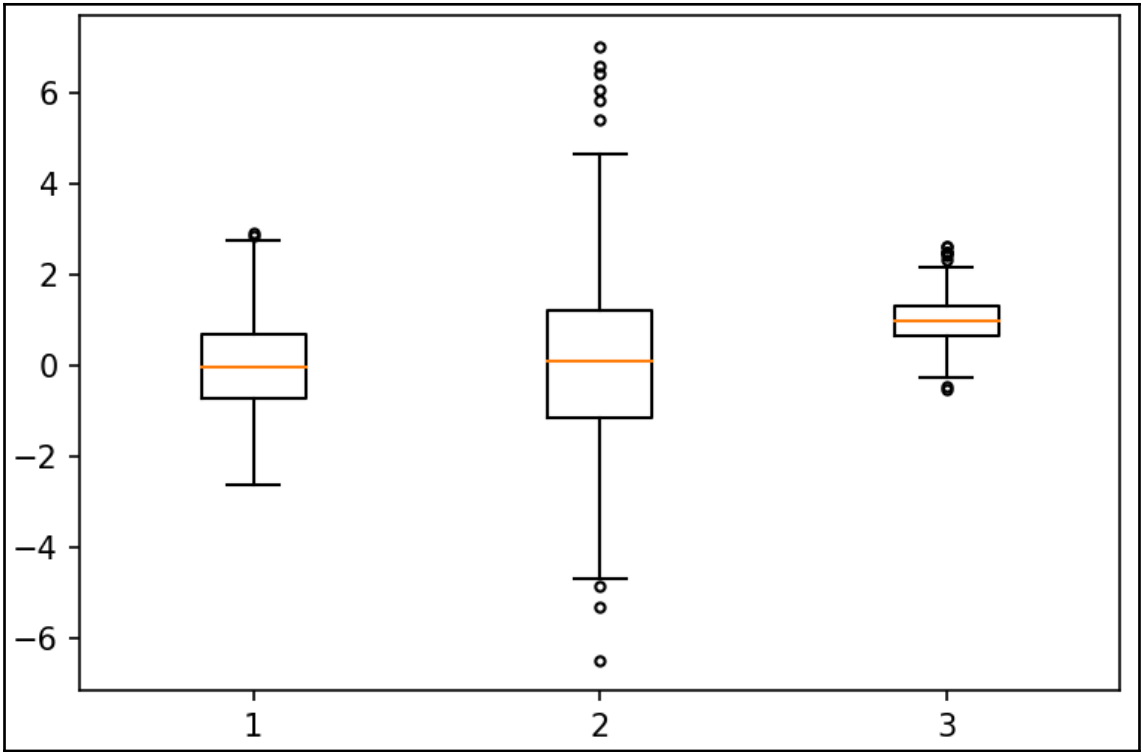




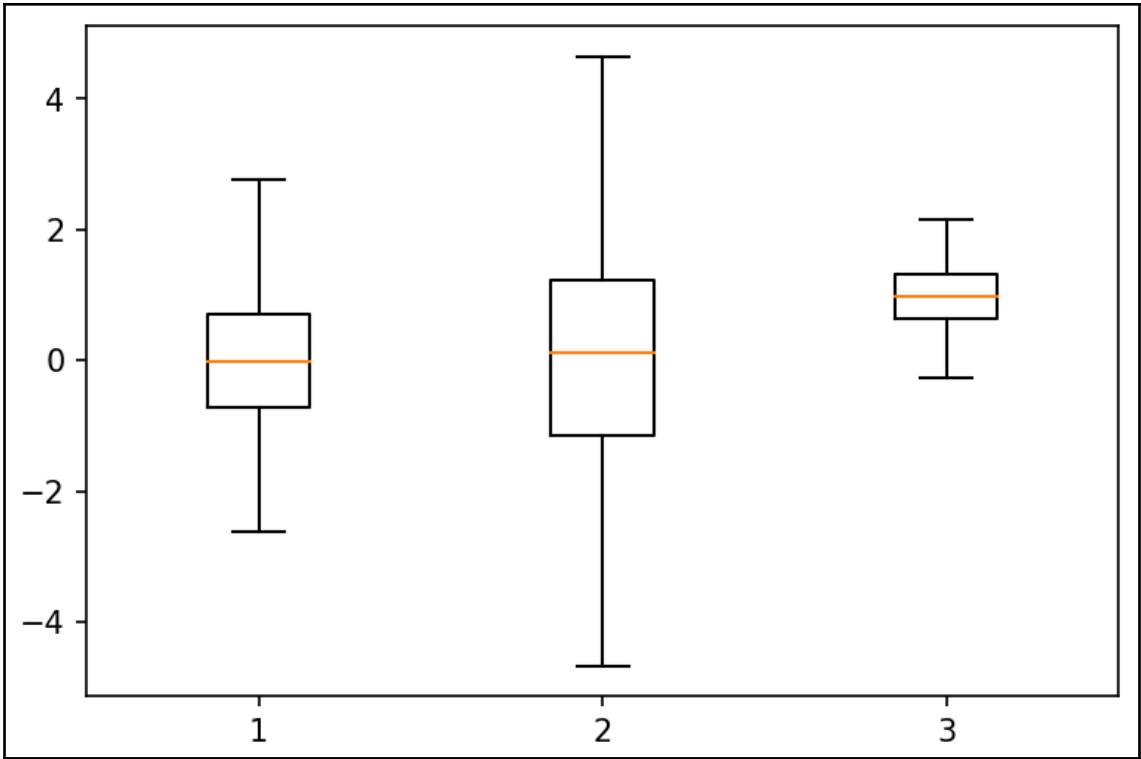


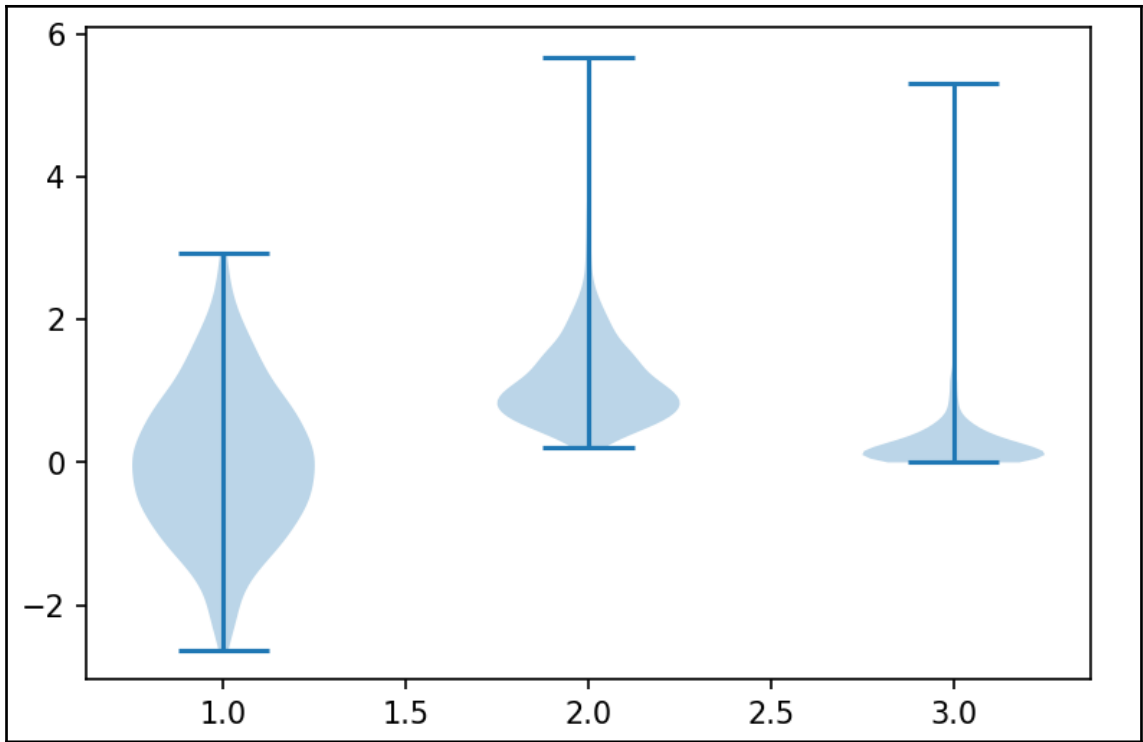


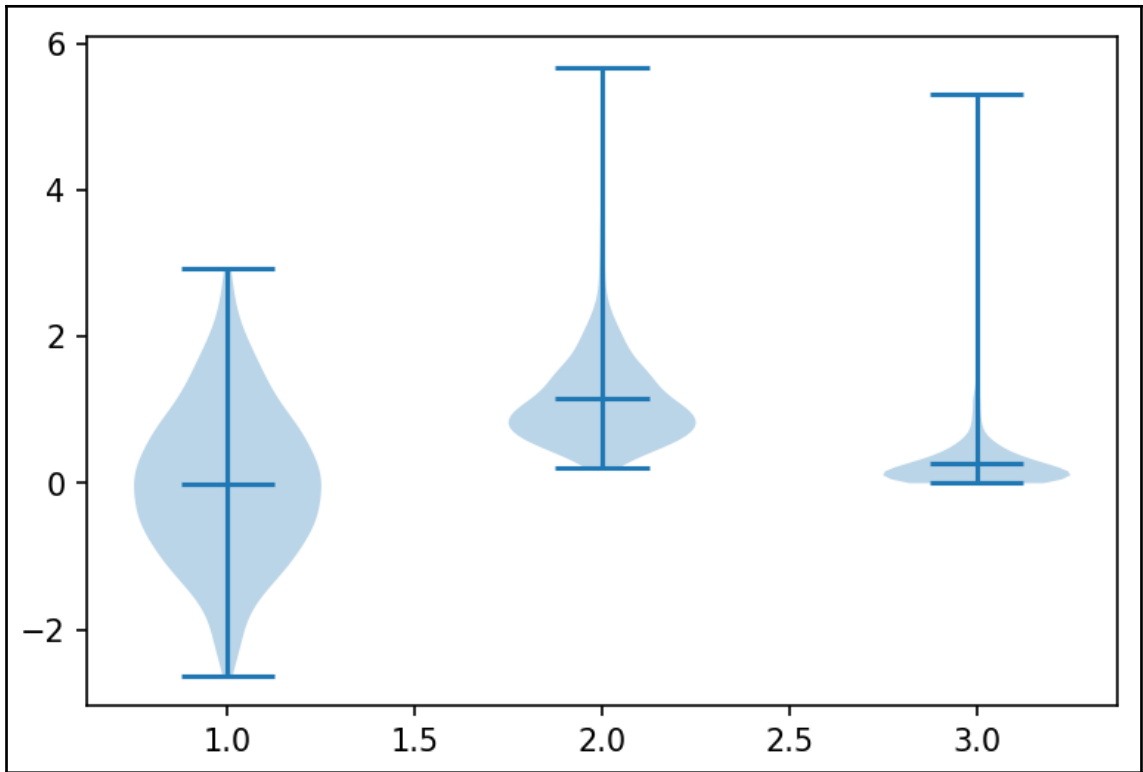


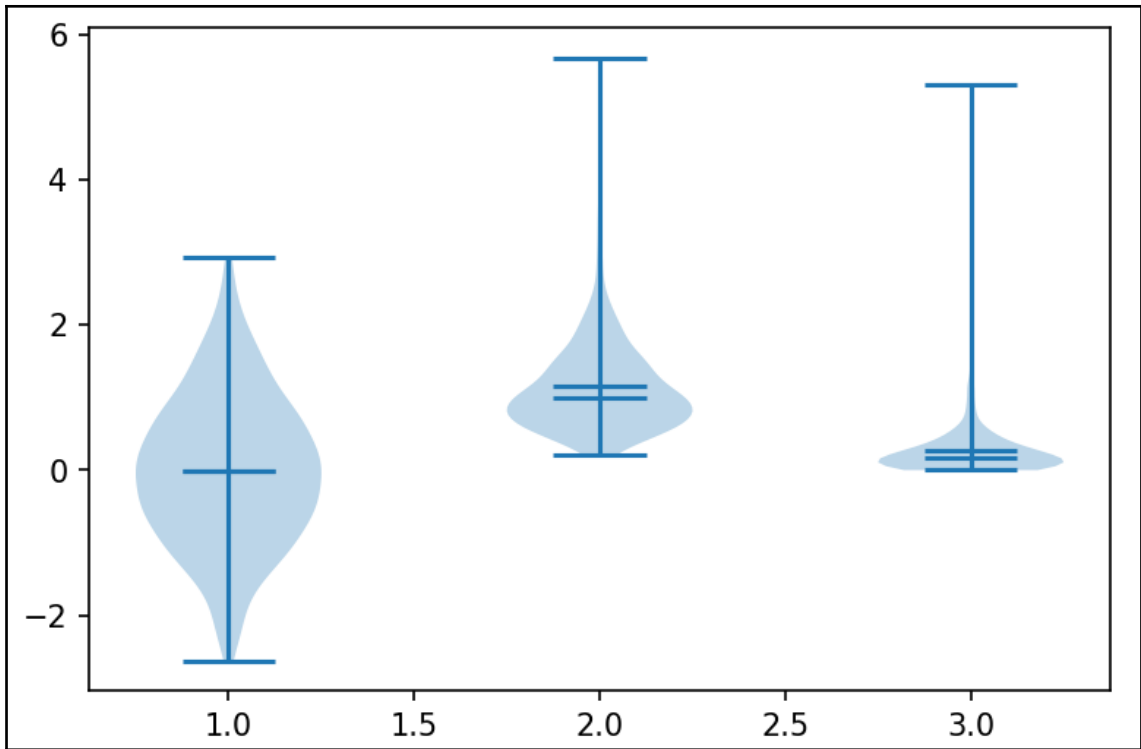




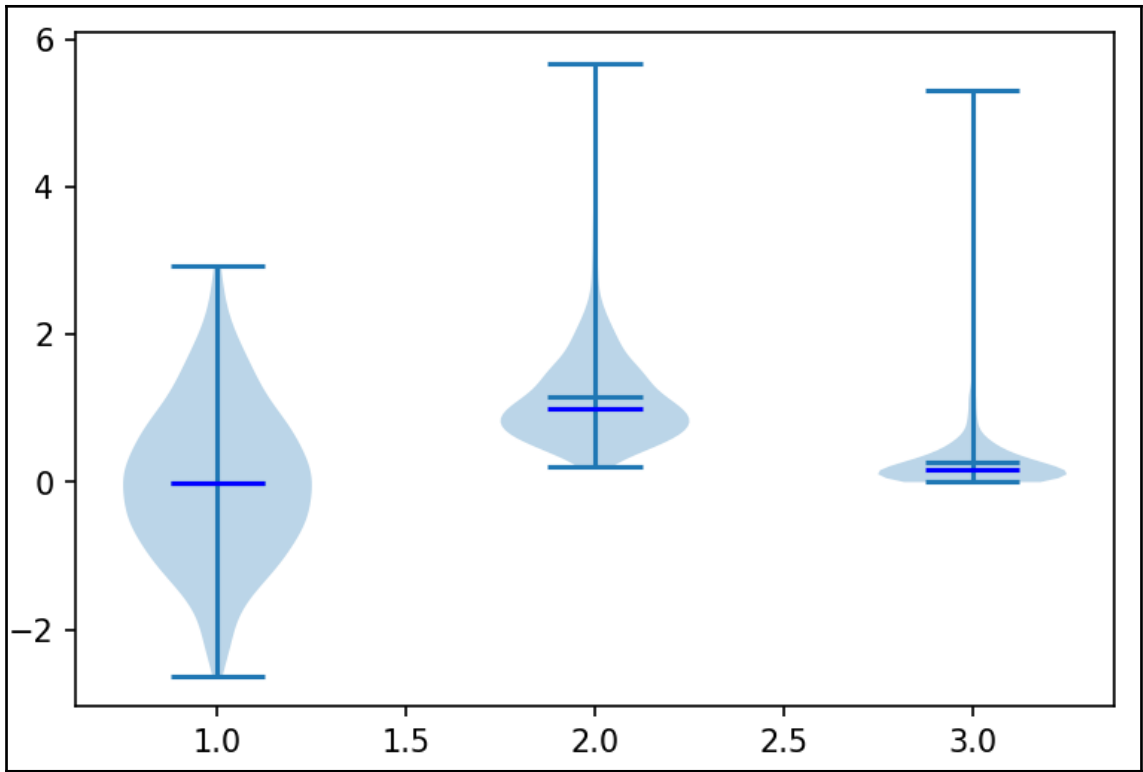


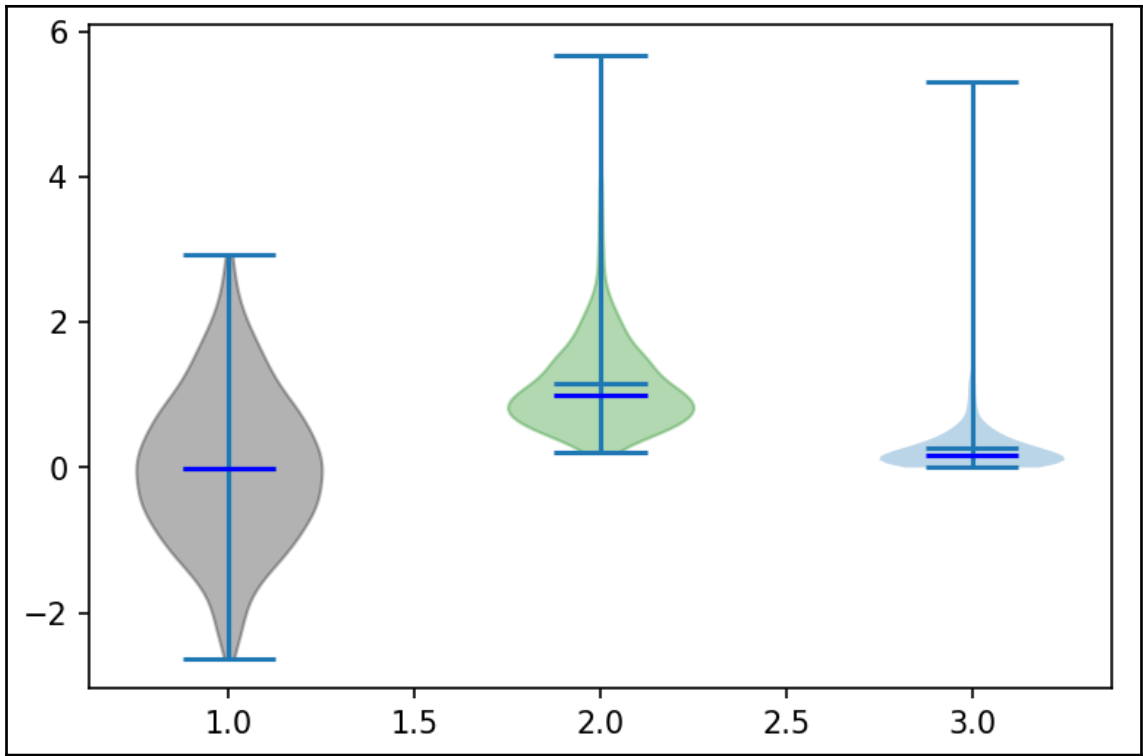


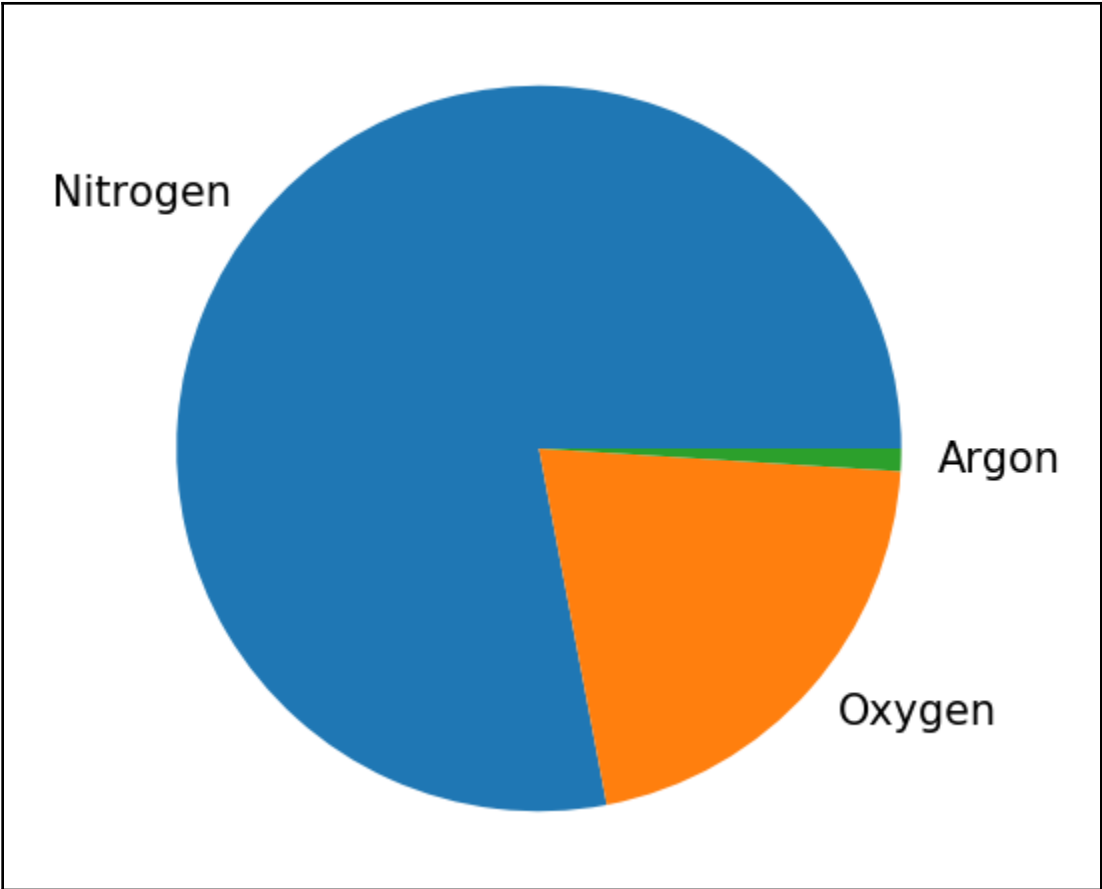


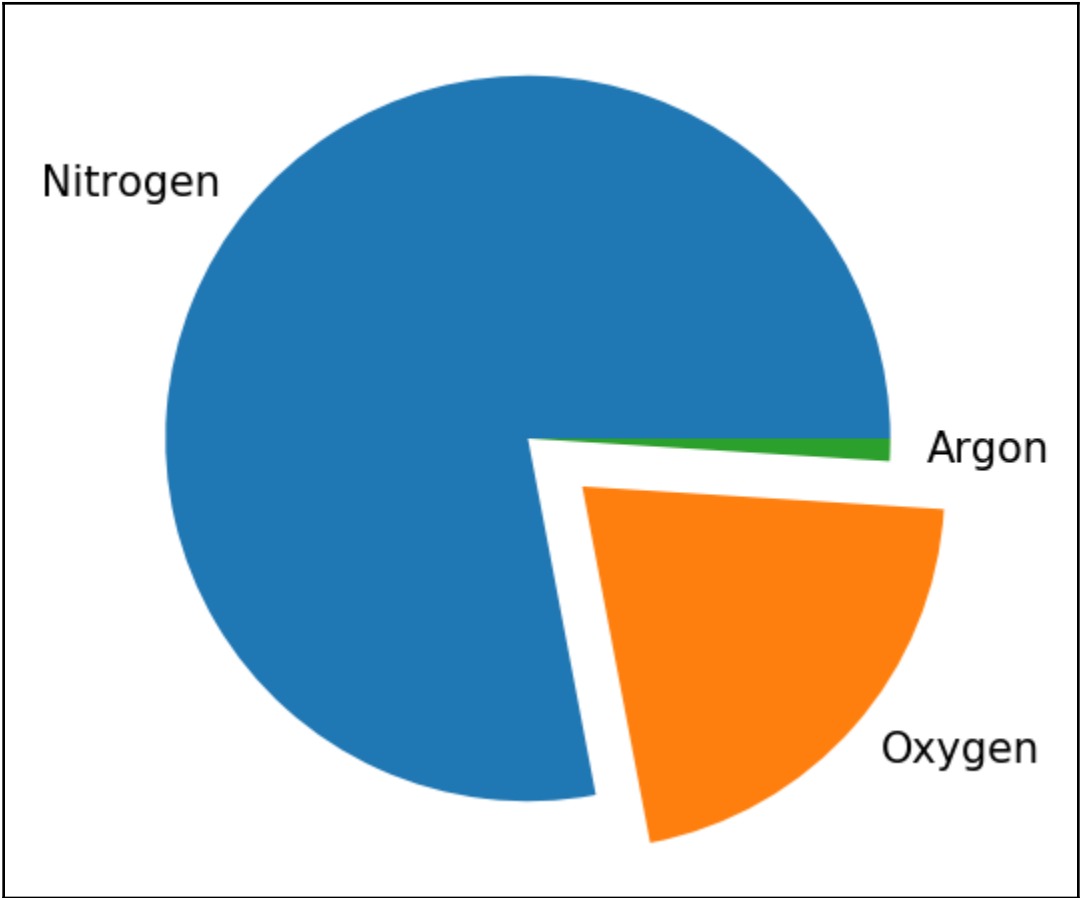


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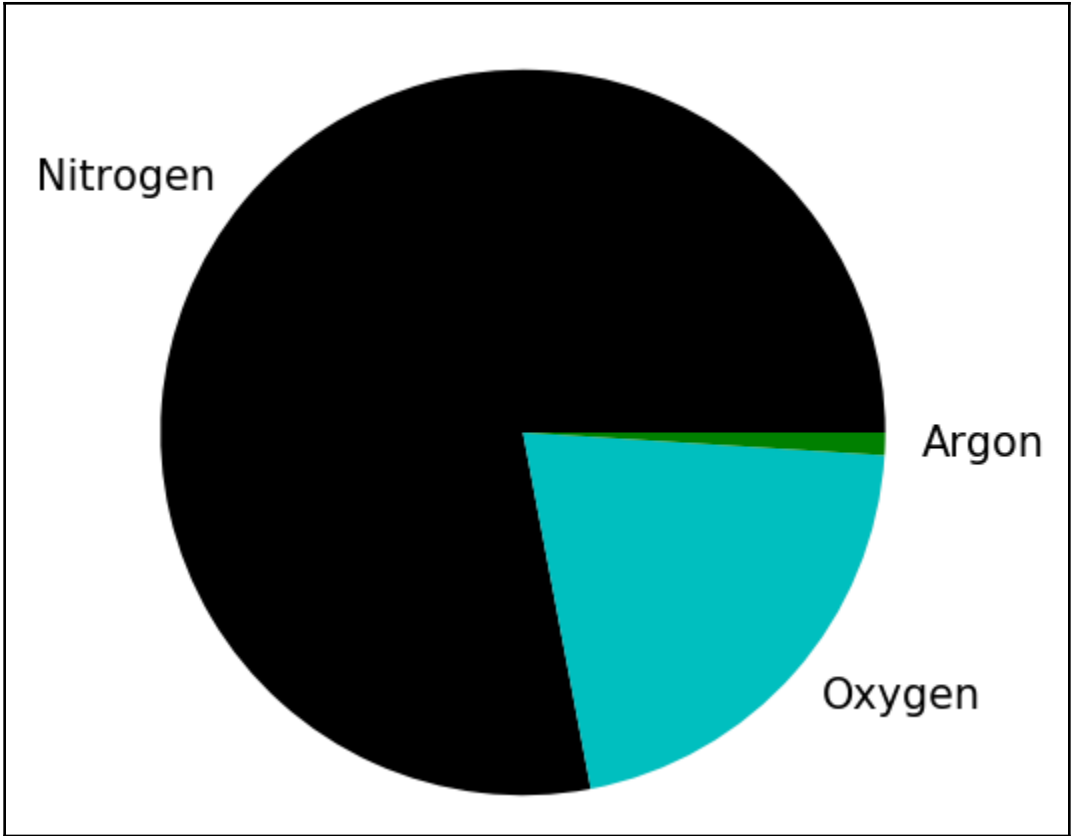


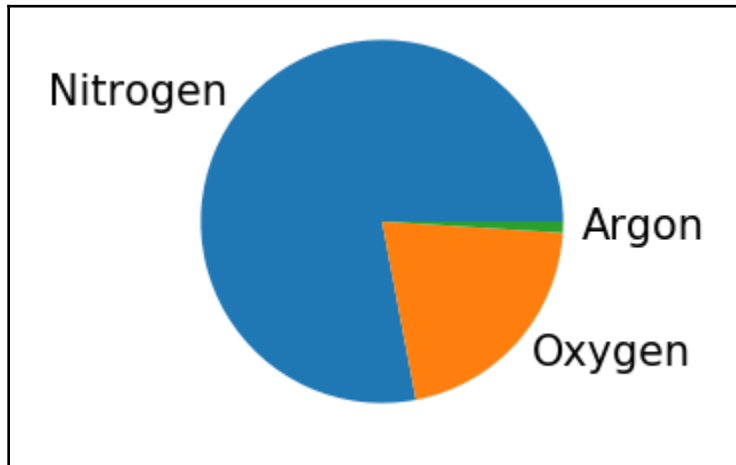
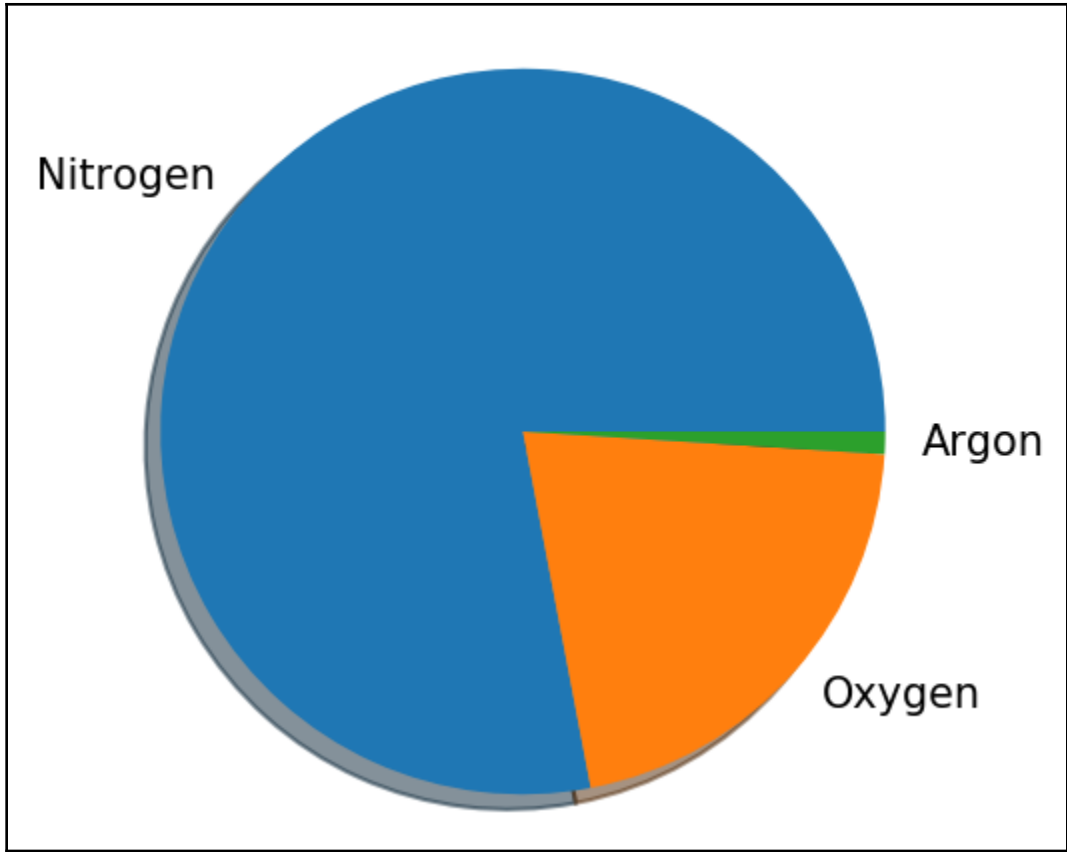


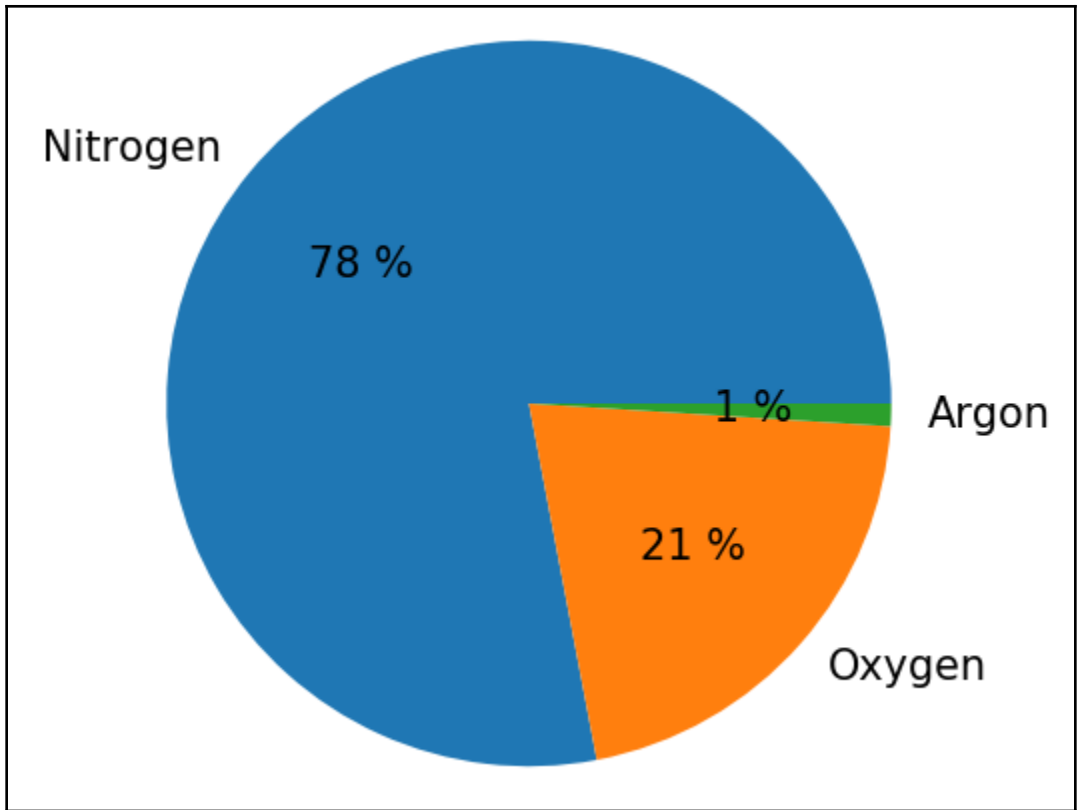


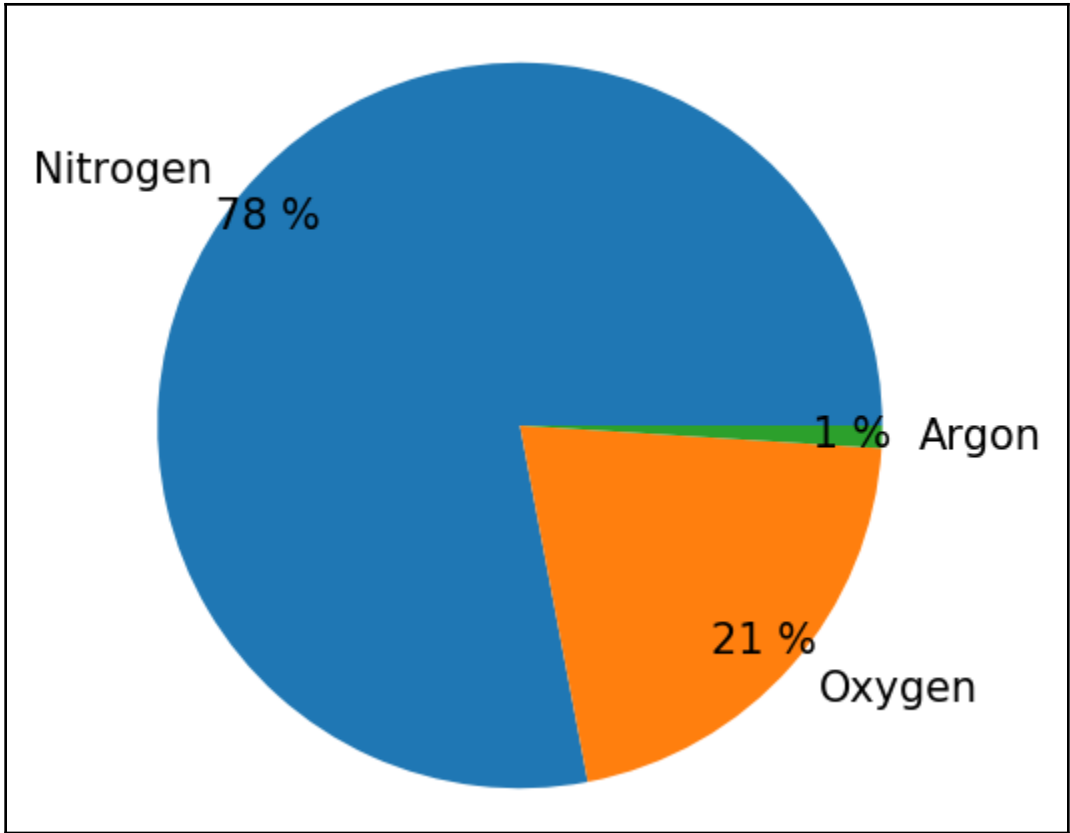


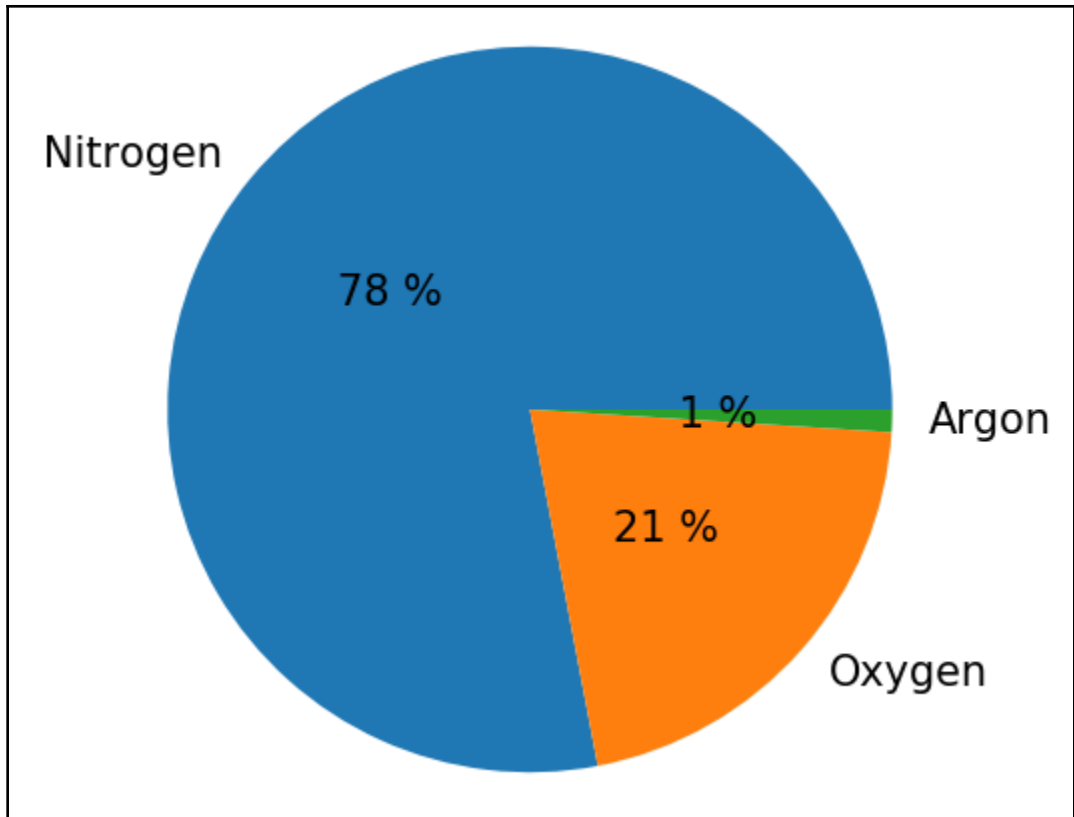


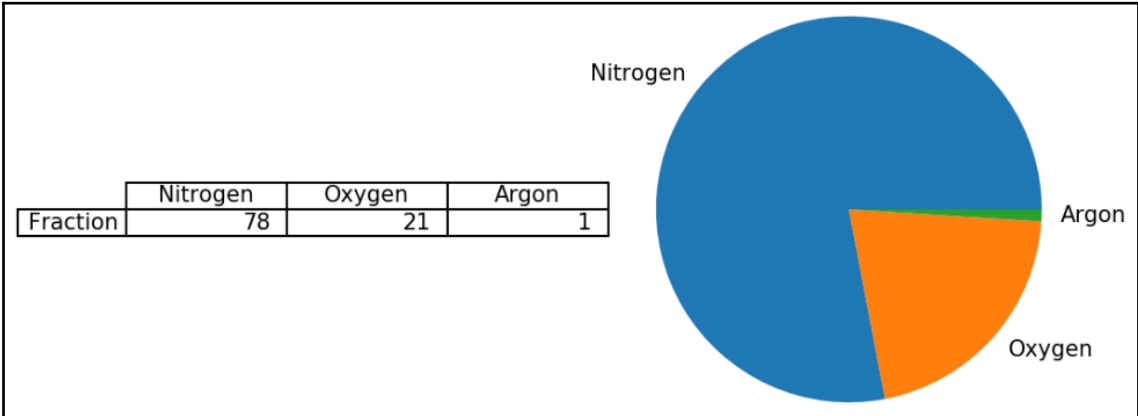
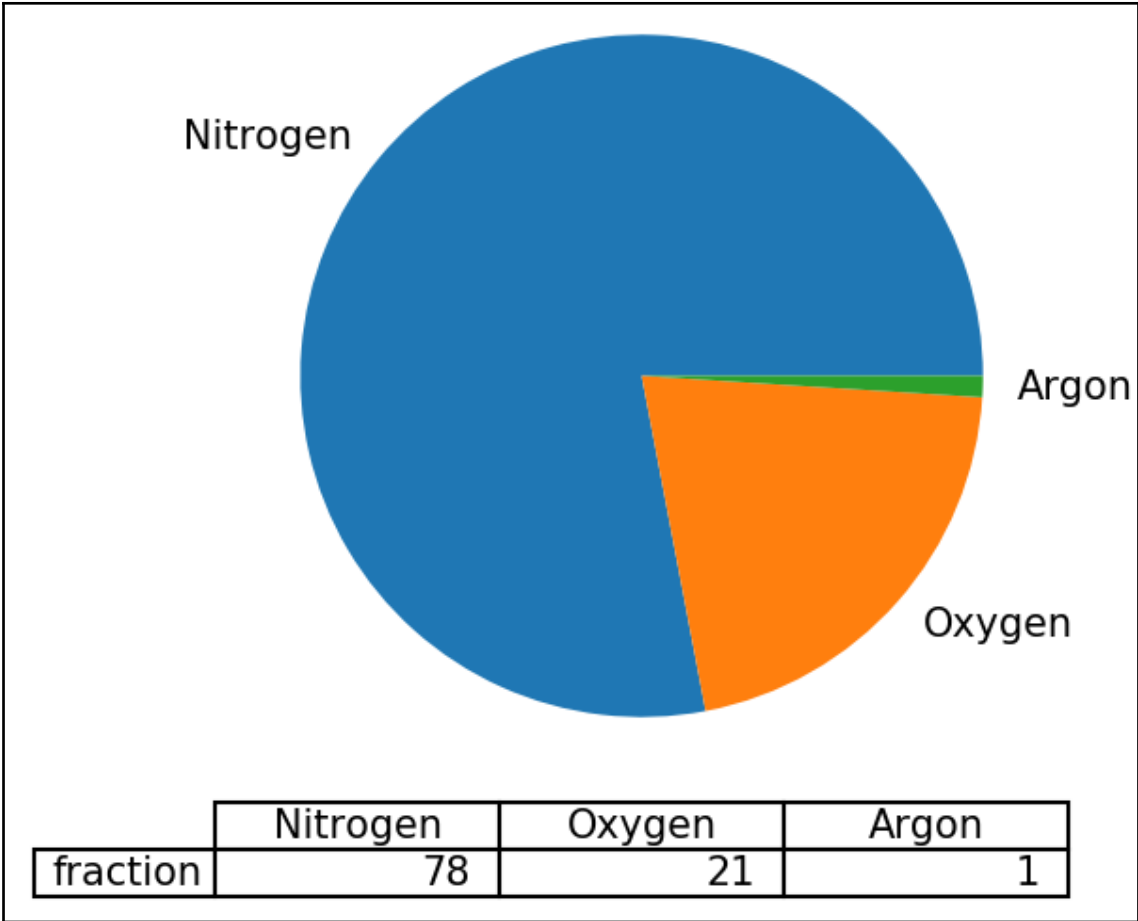


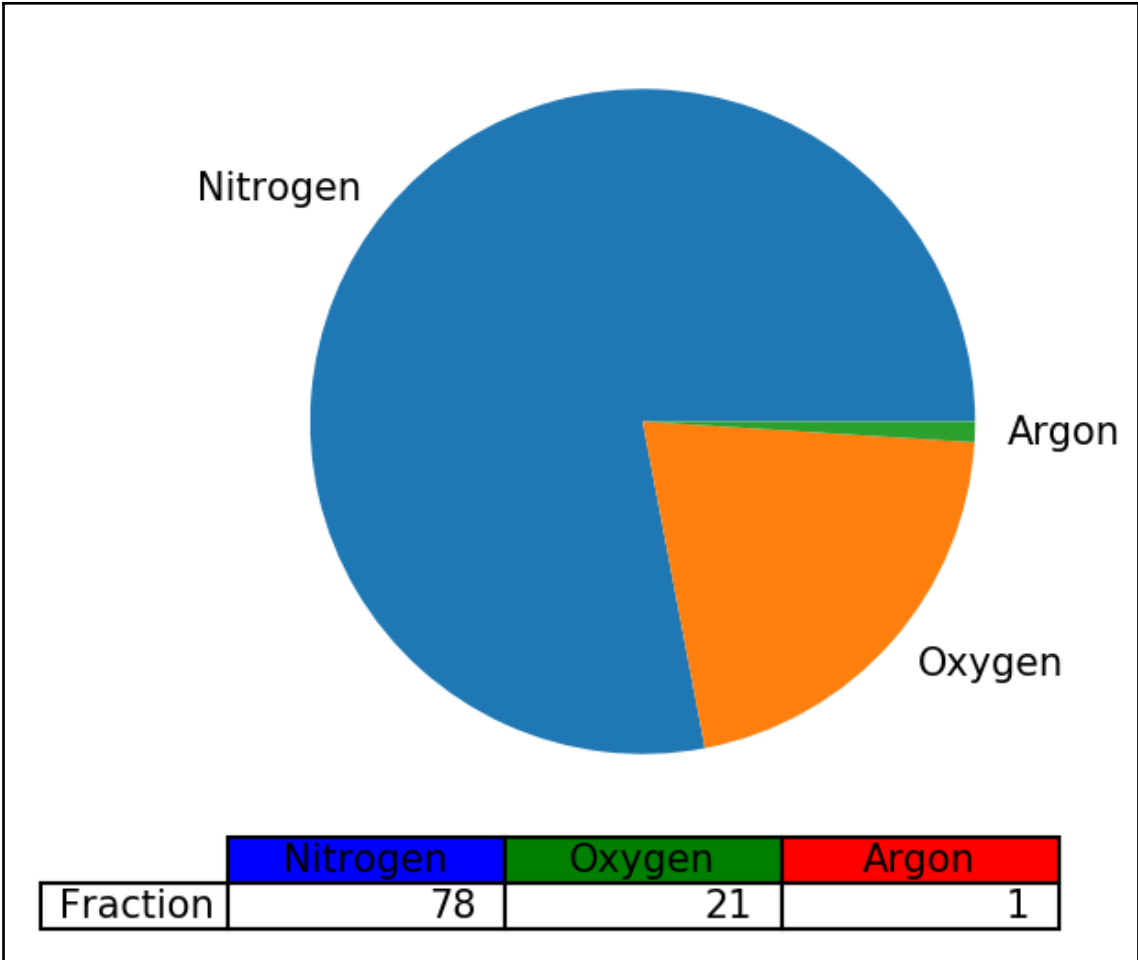


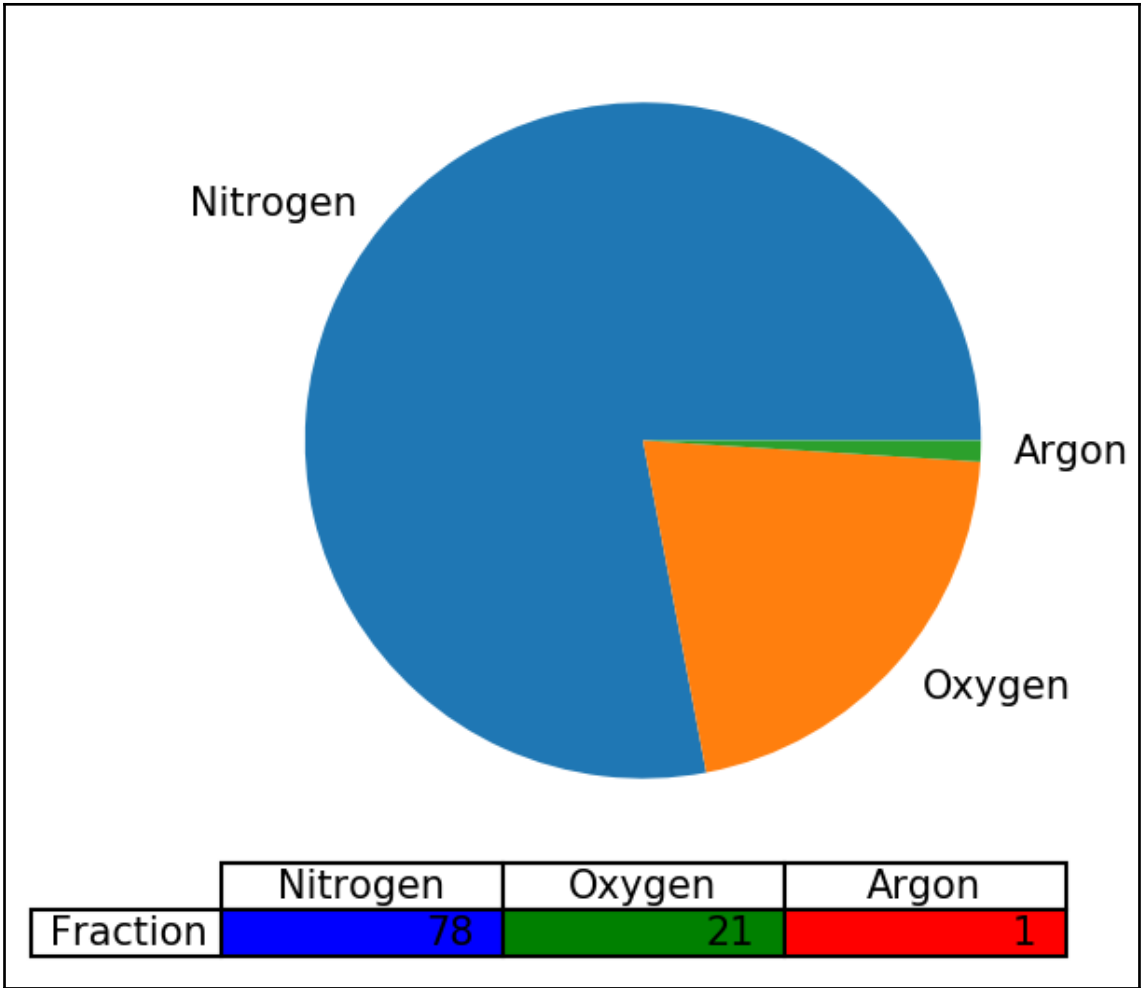








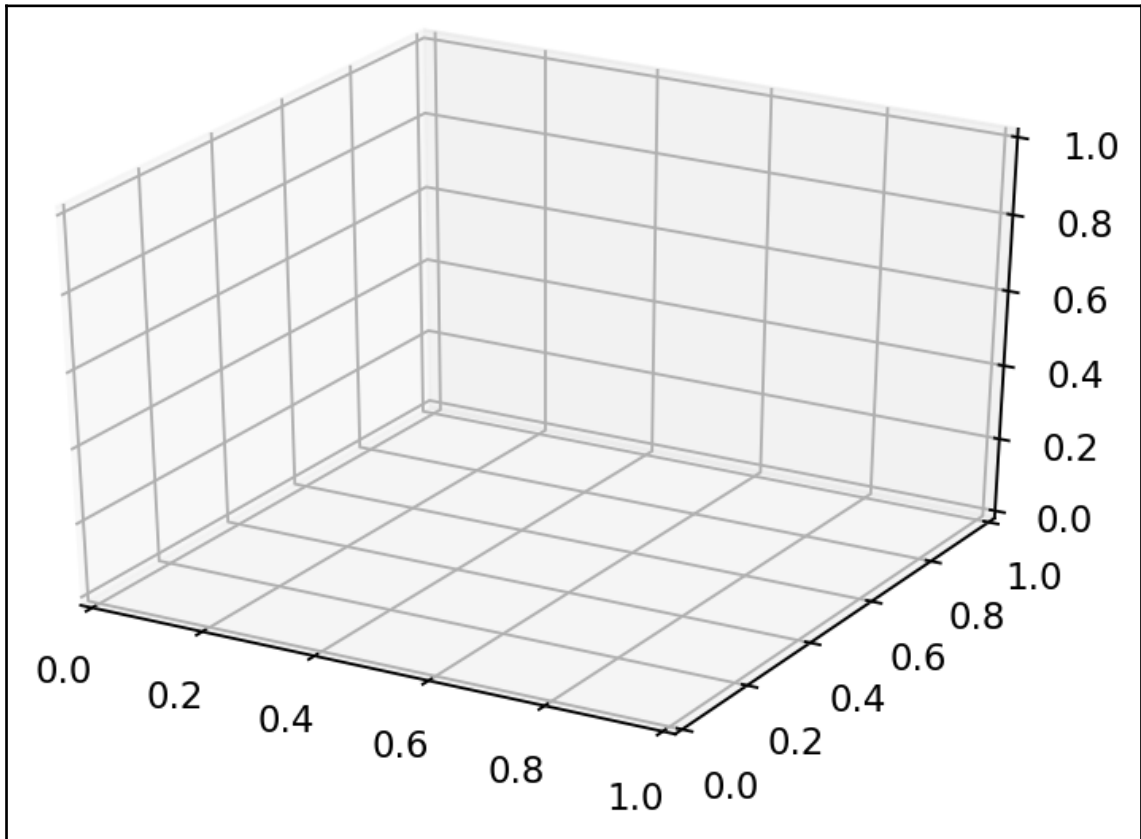


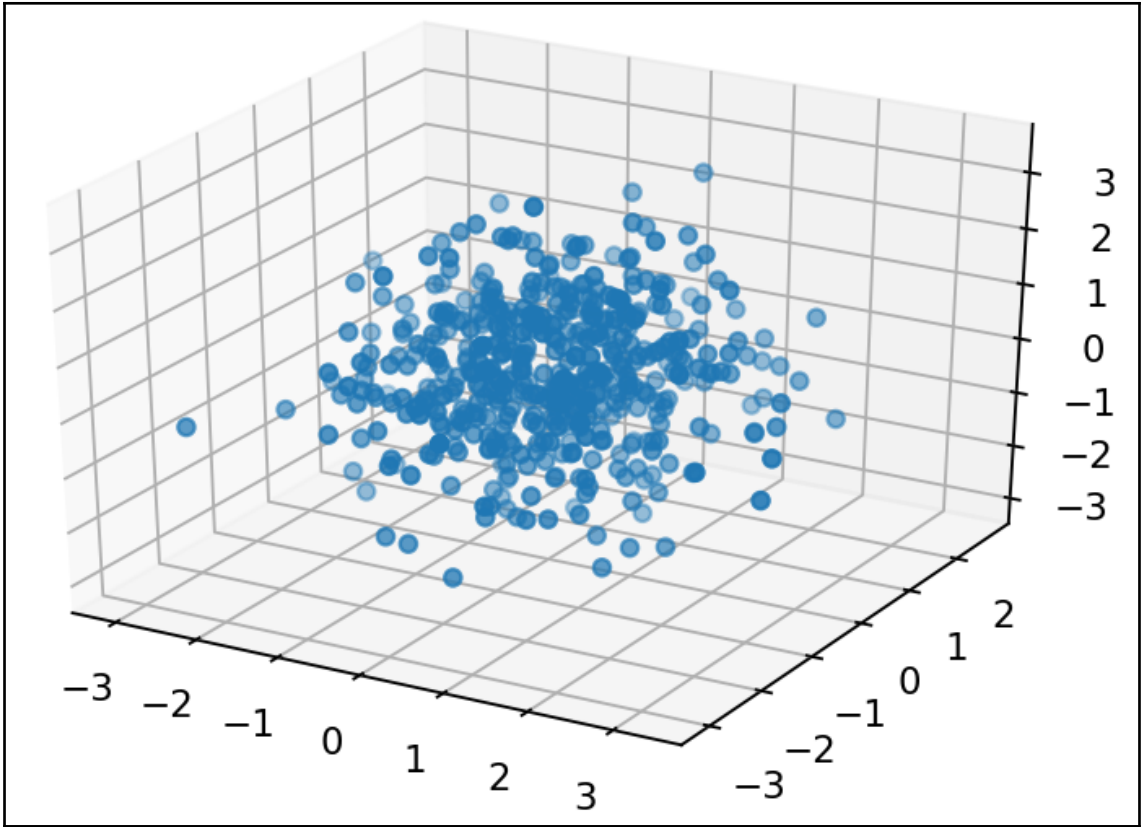


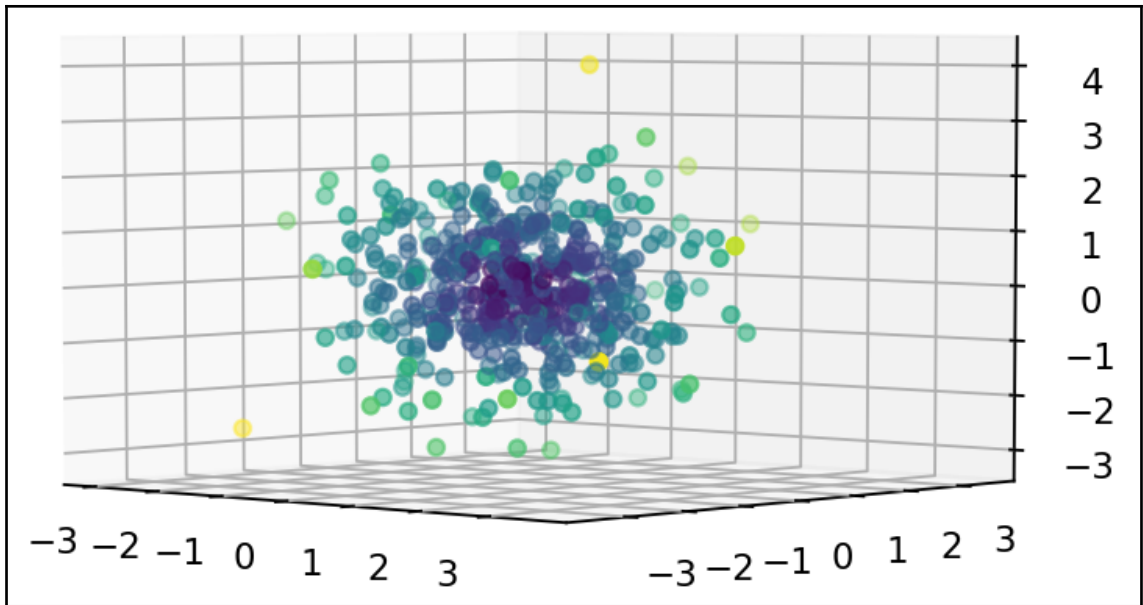


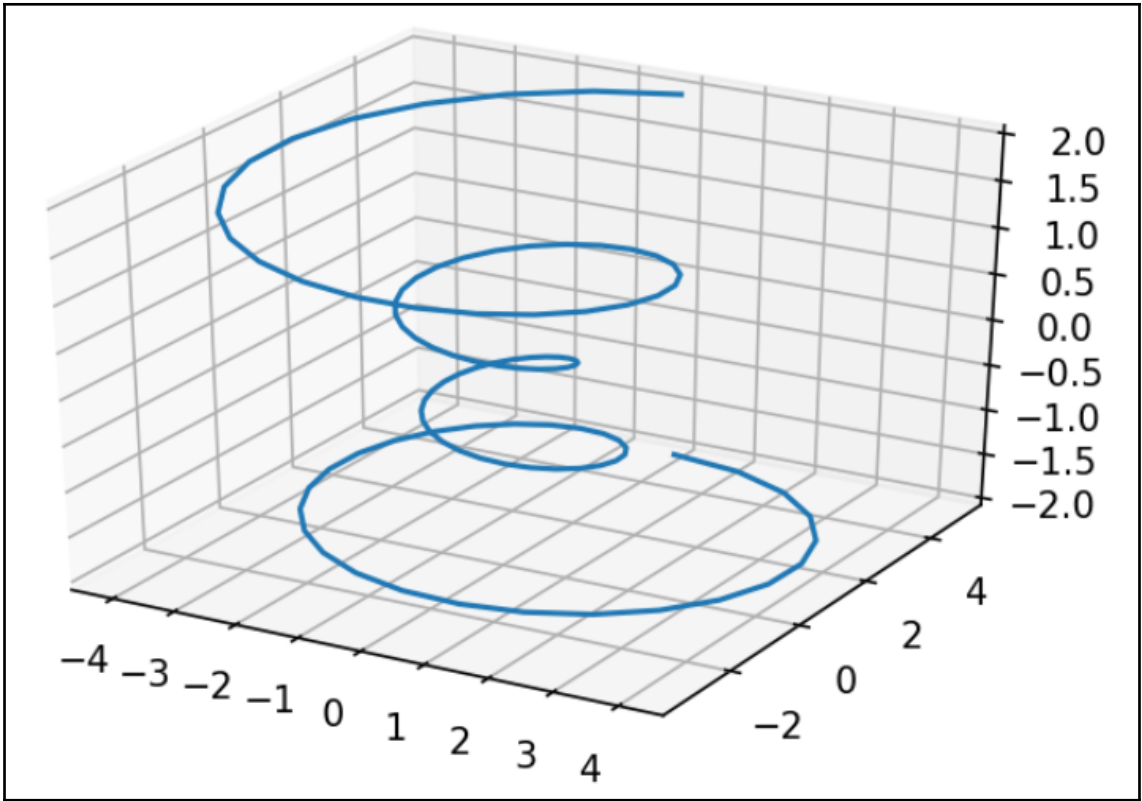
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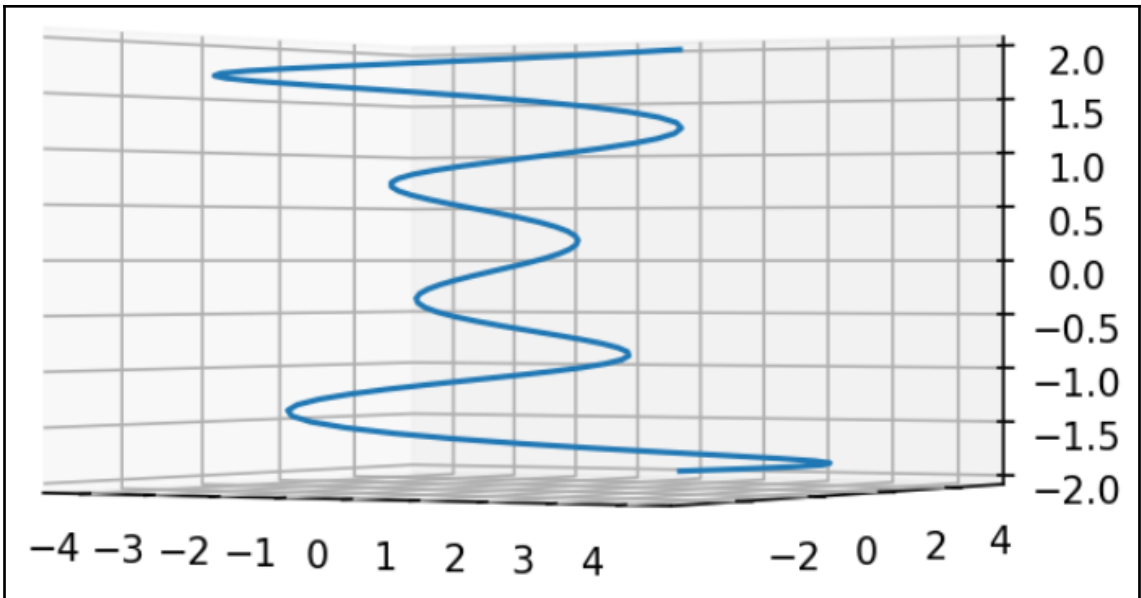
## Chapter 4: 3D and Geospatial Plots

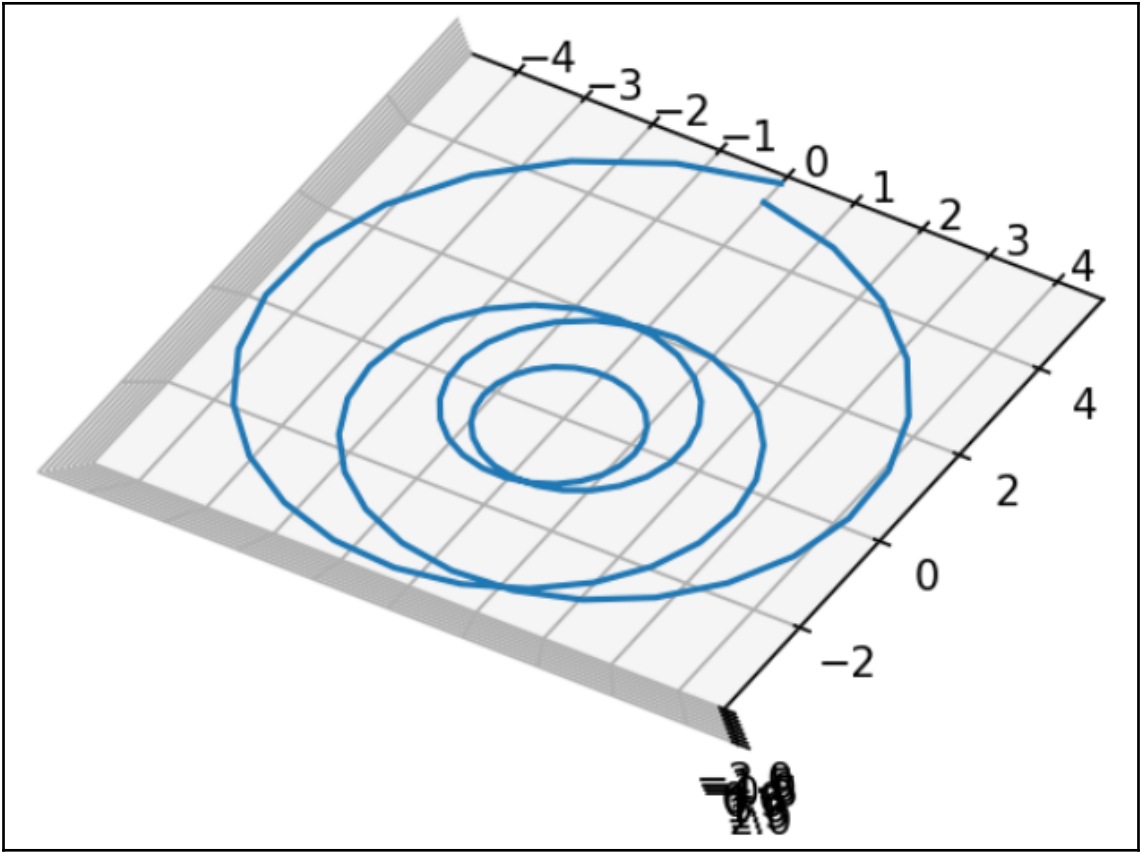


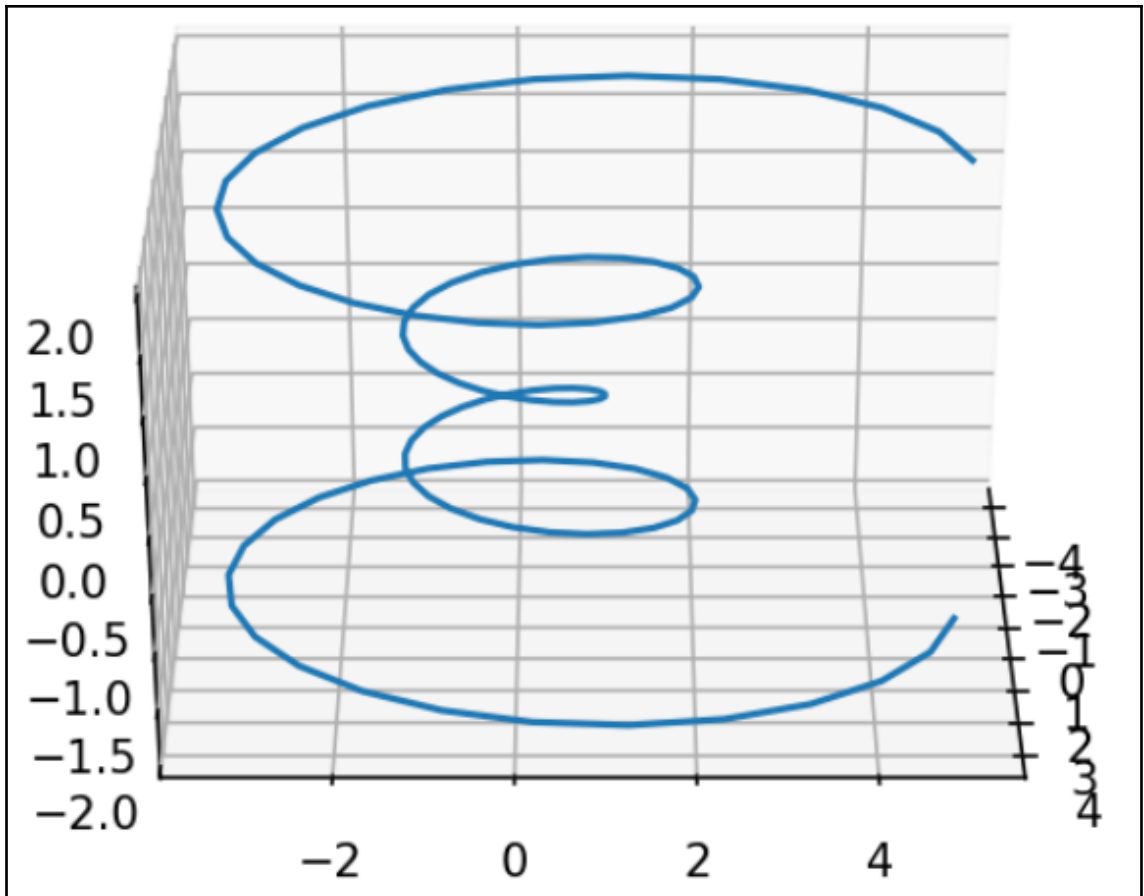


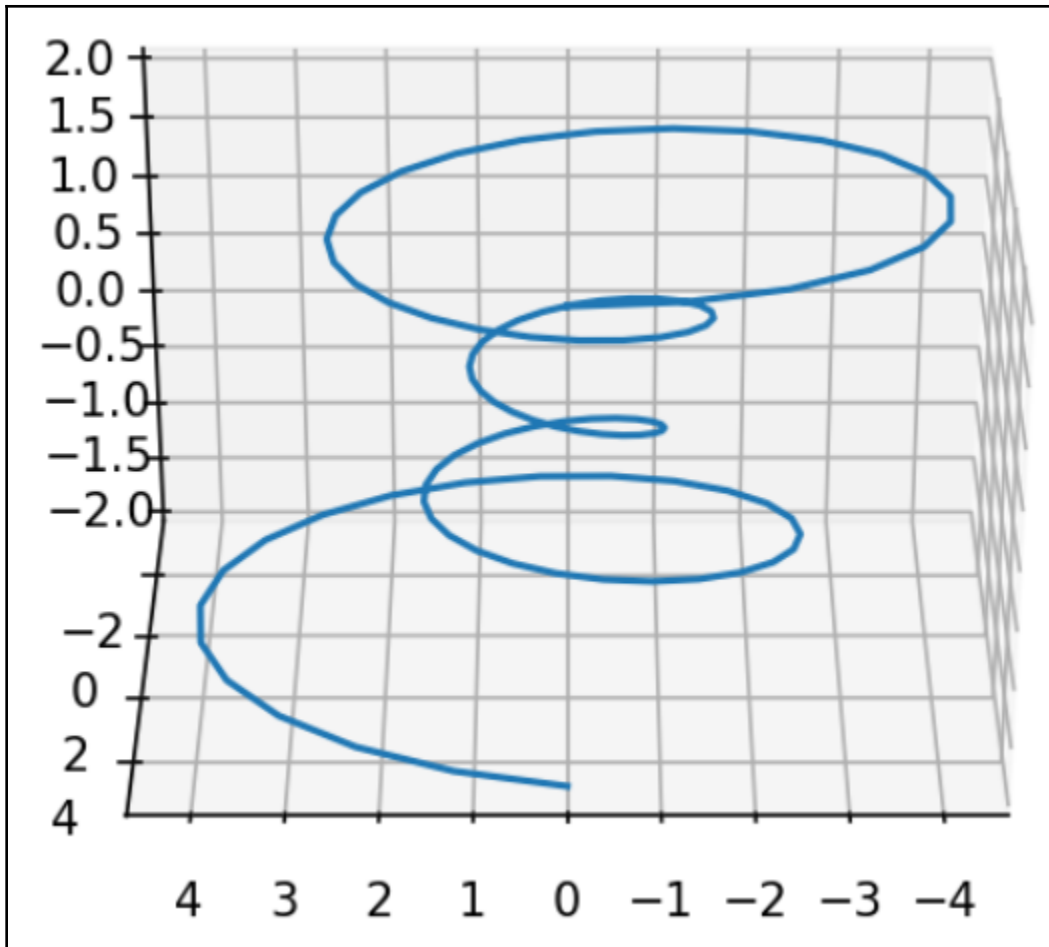




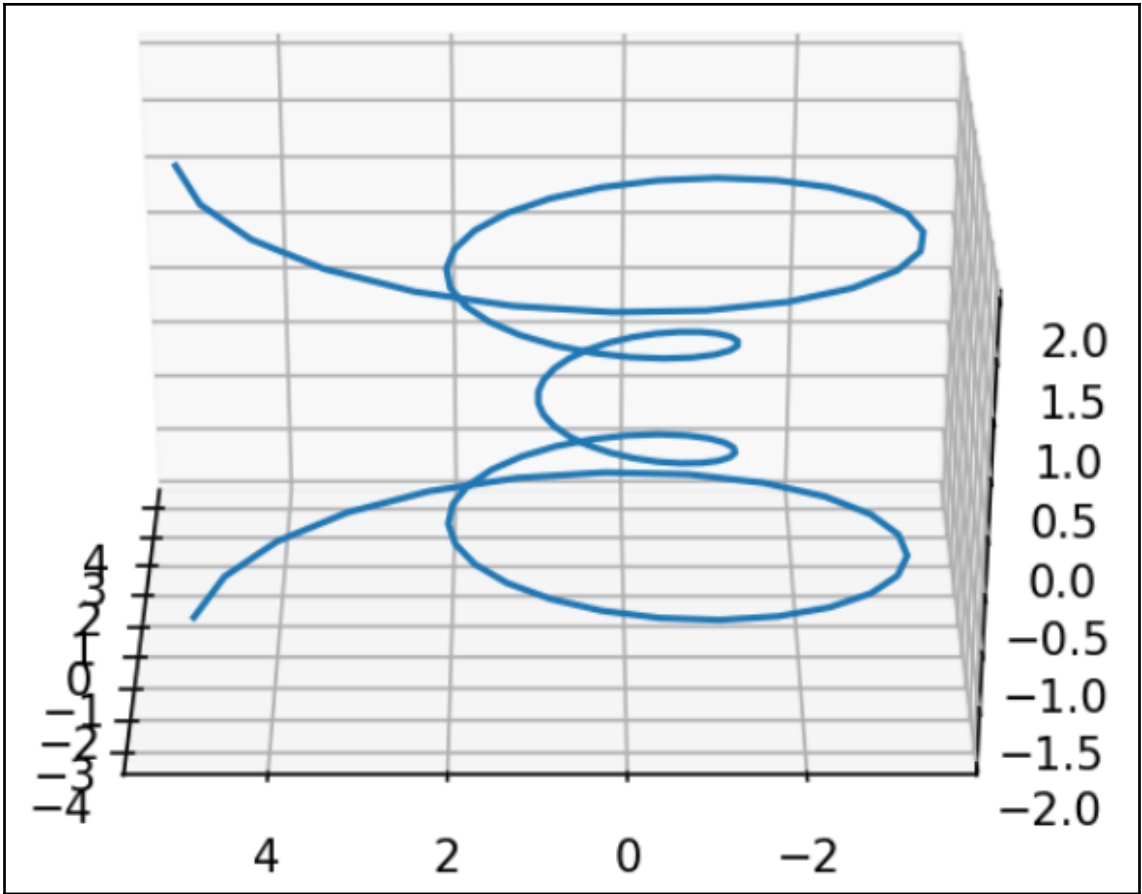


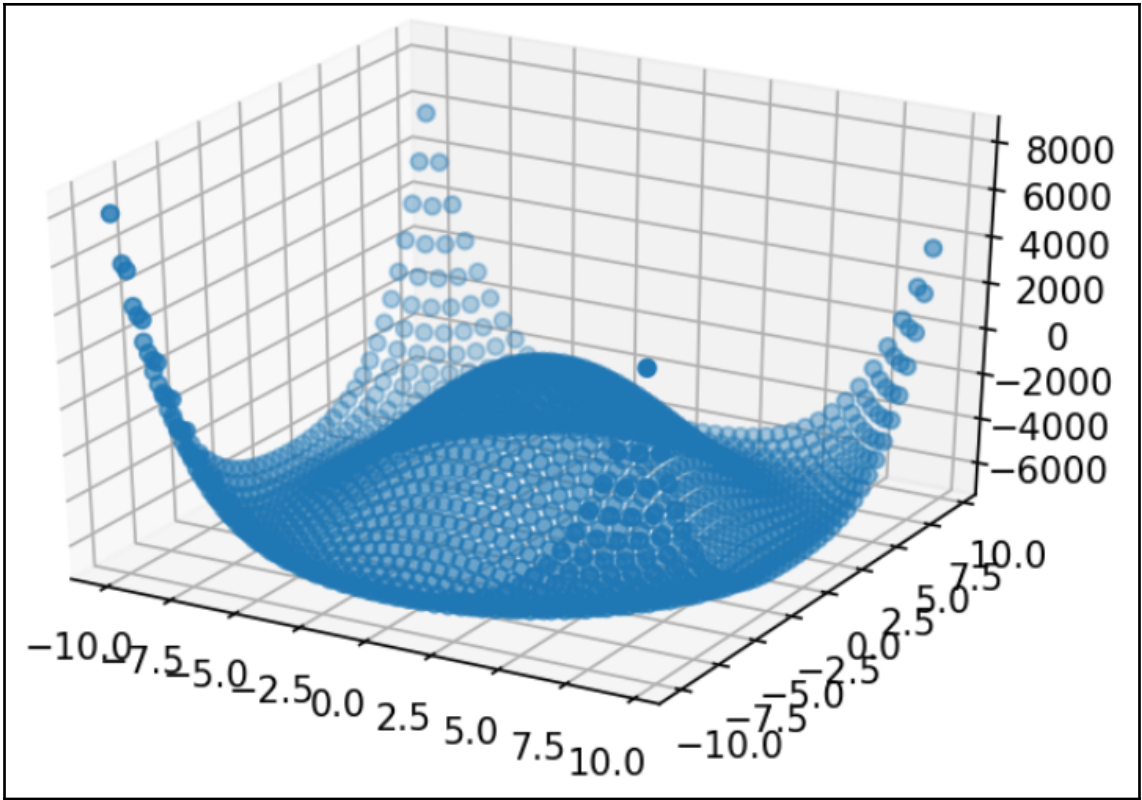


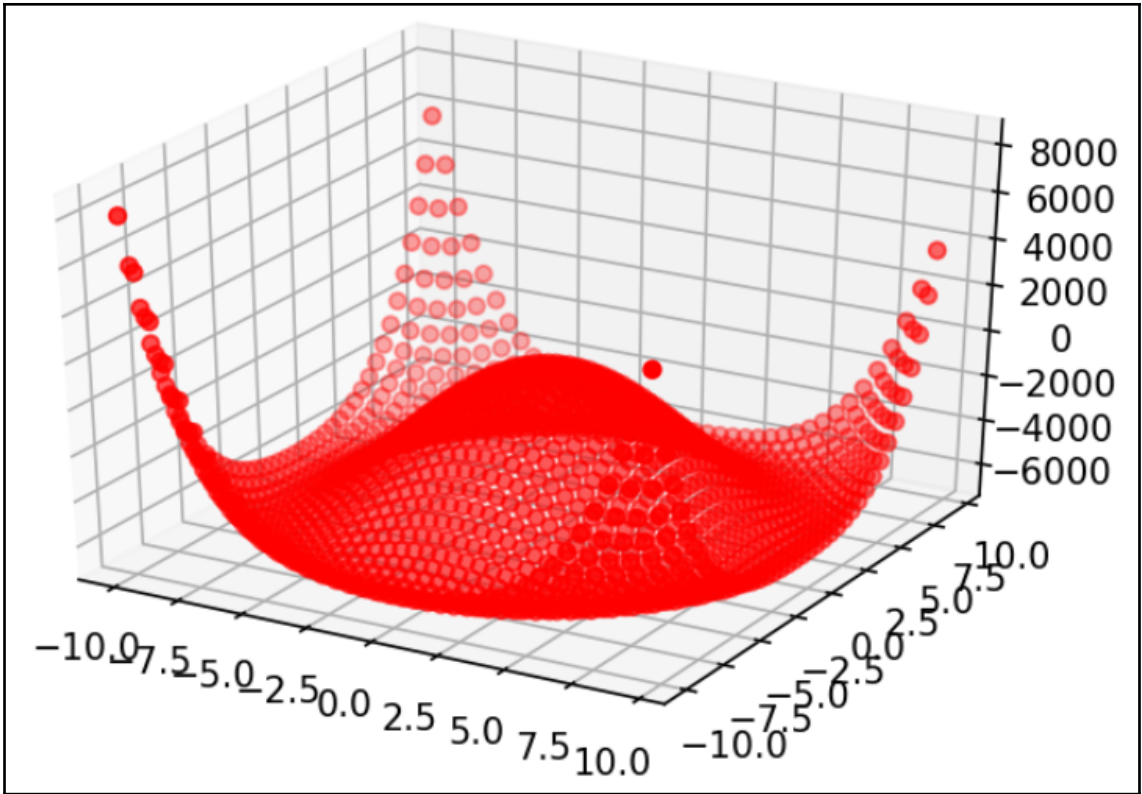


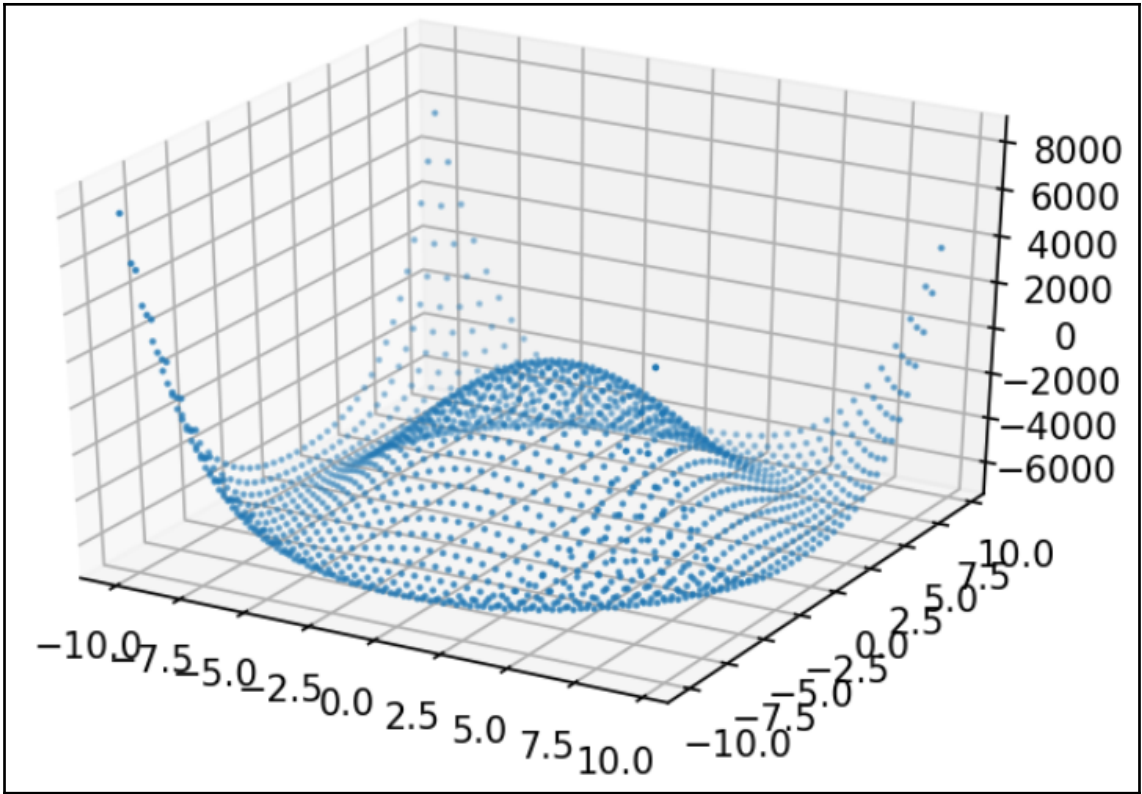


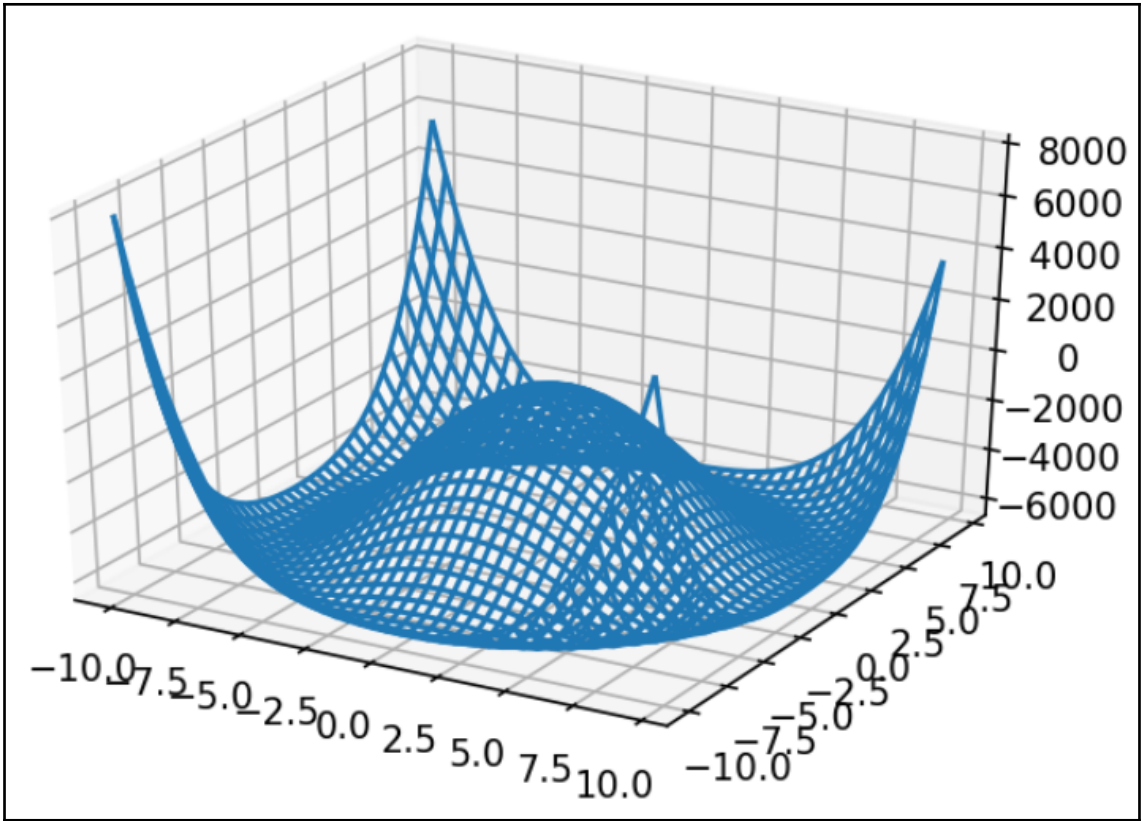


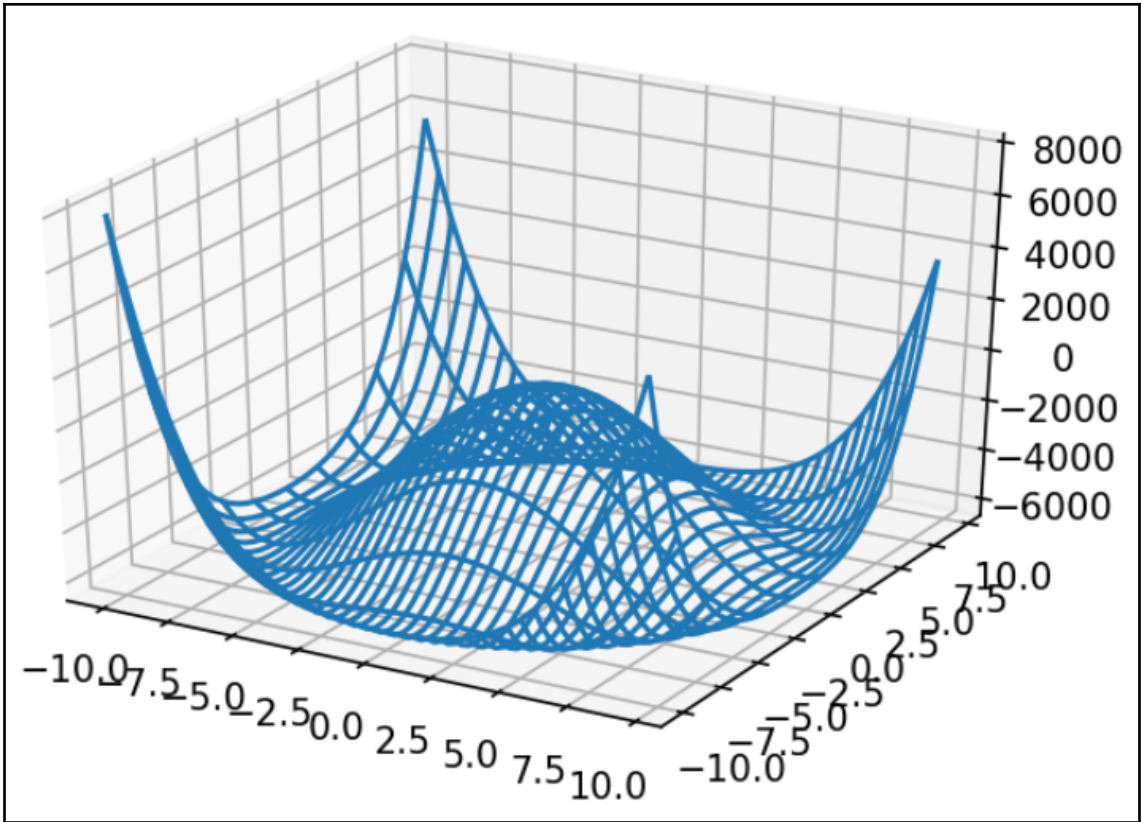


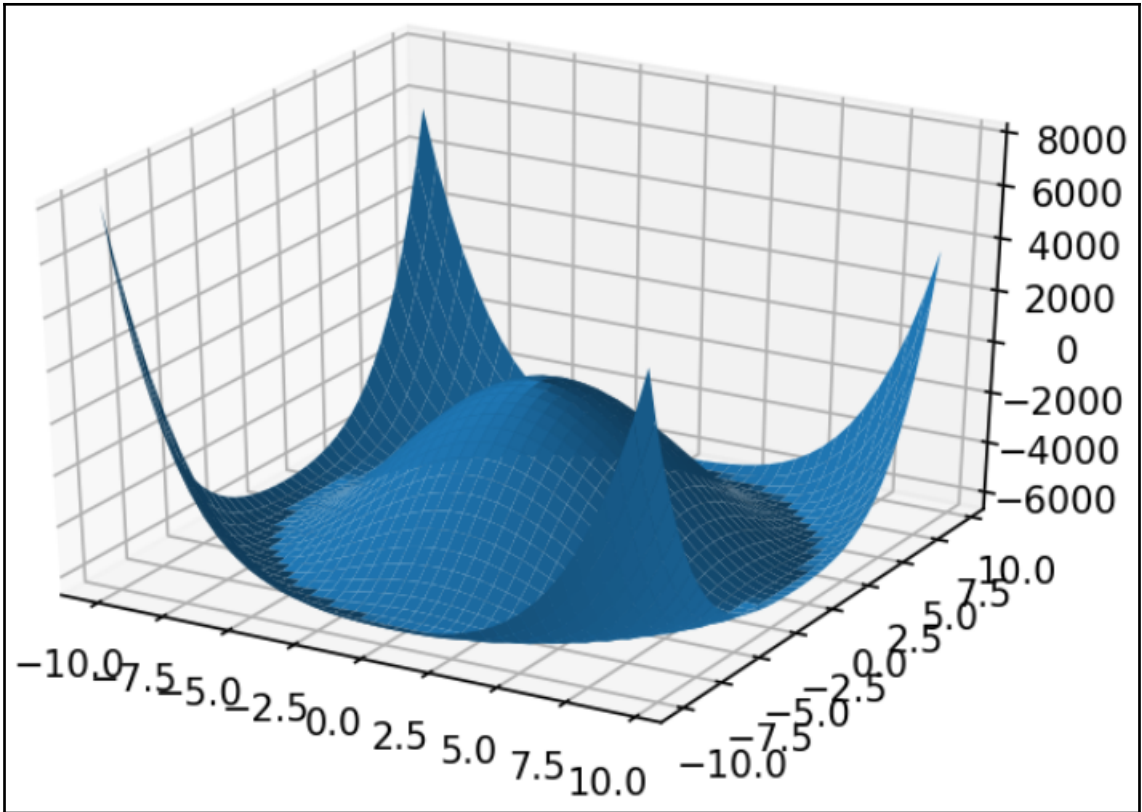


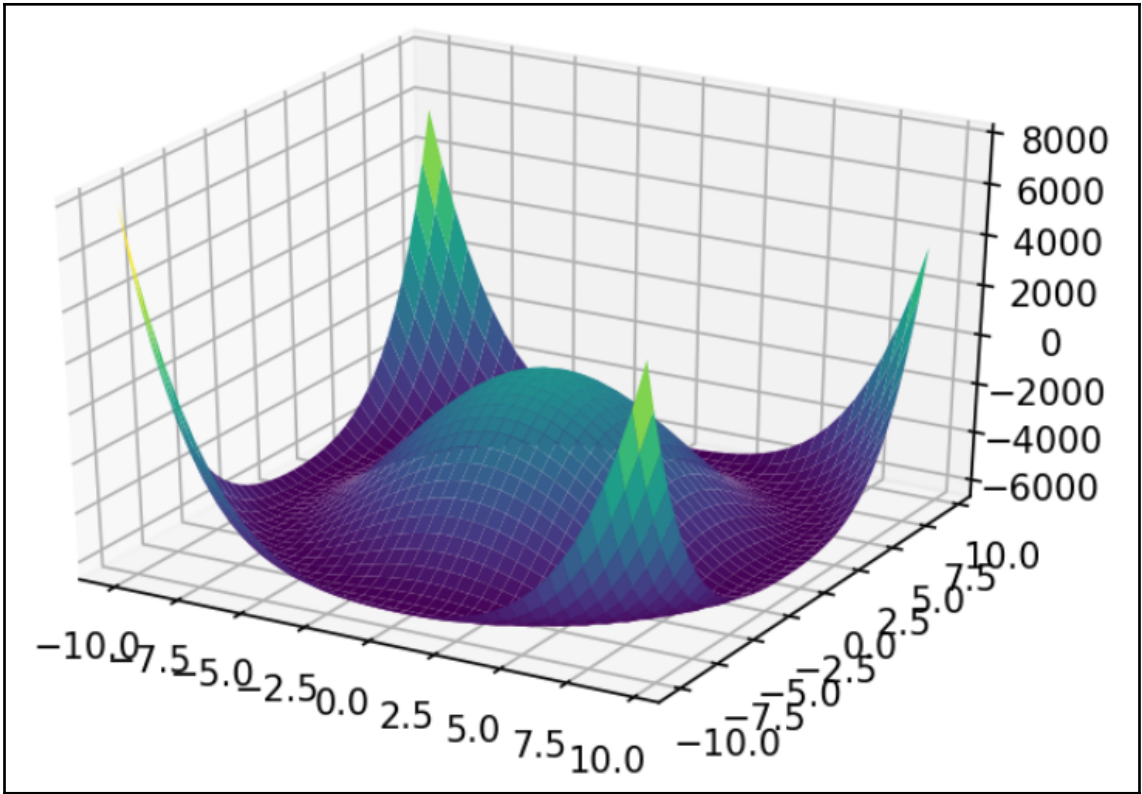




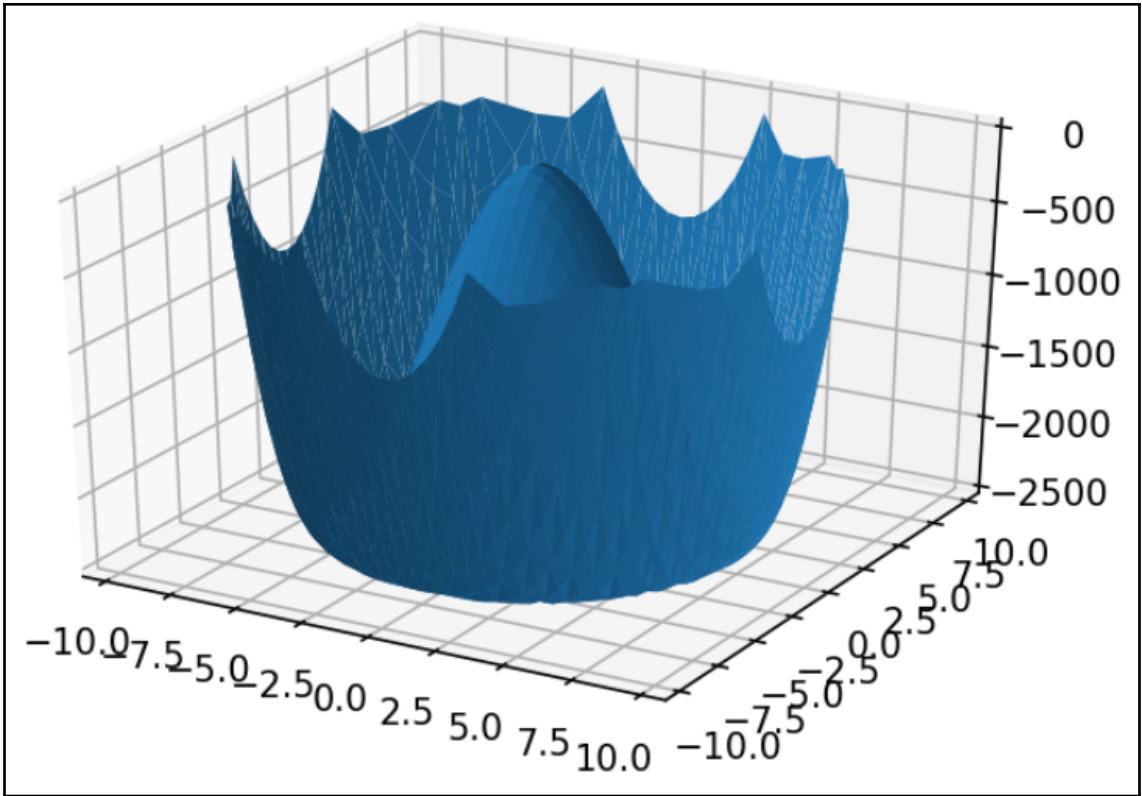


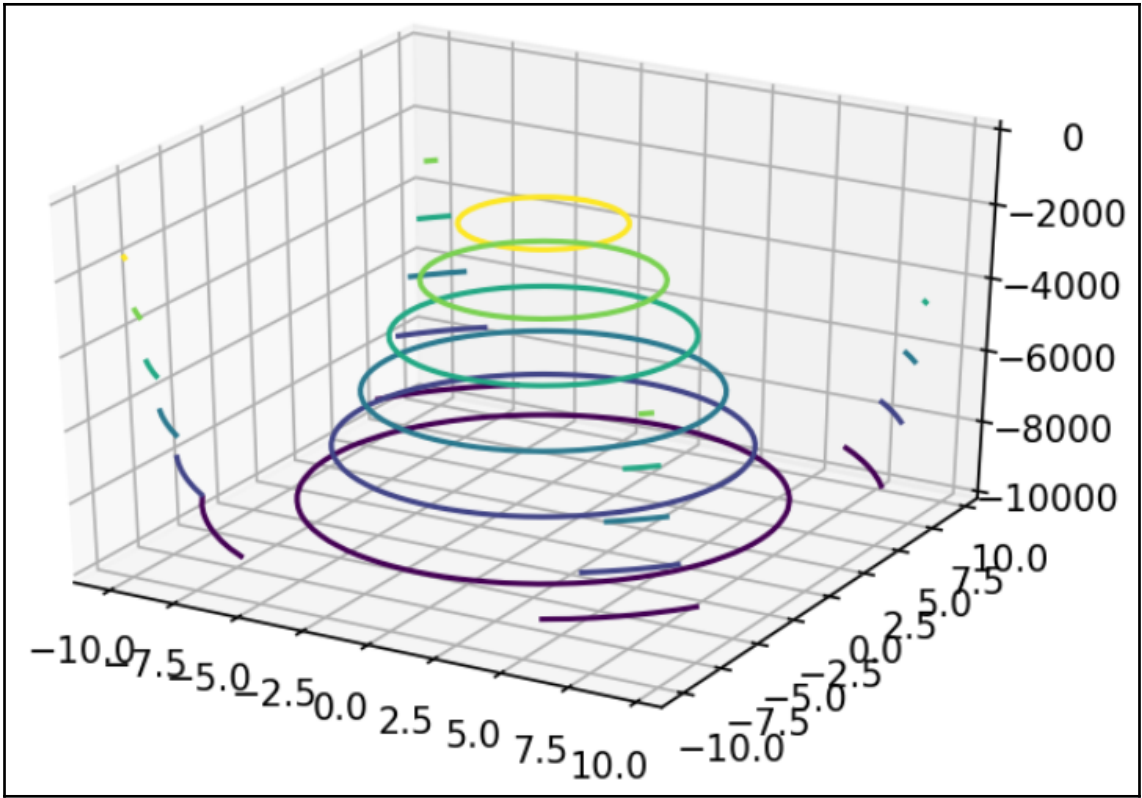


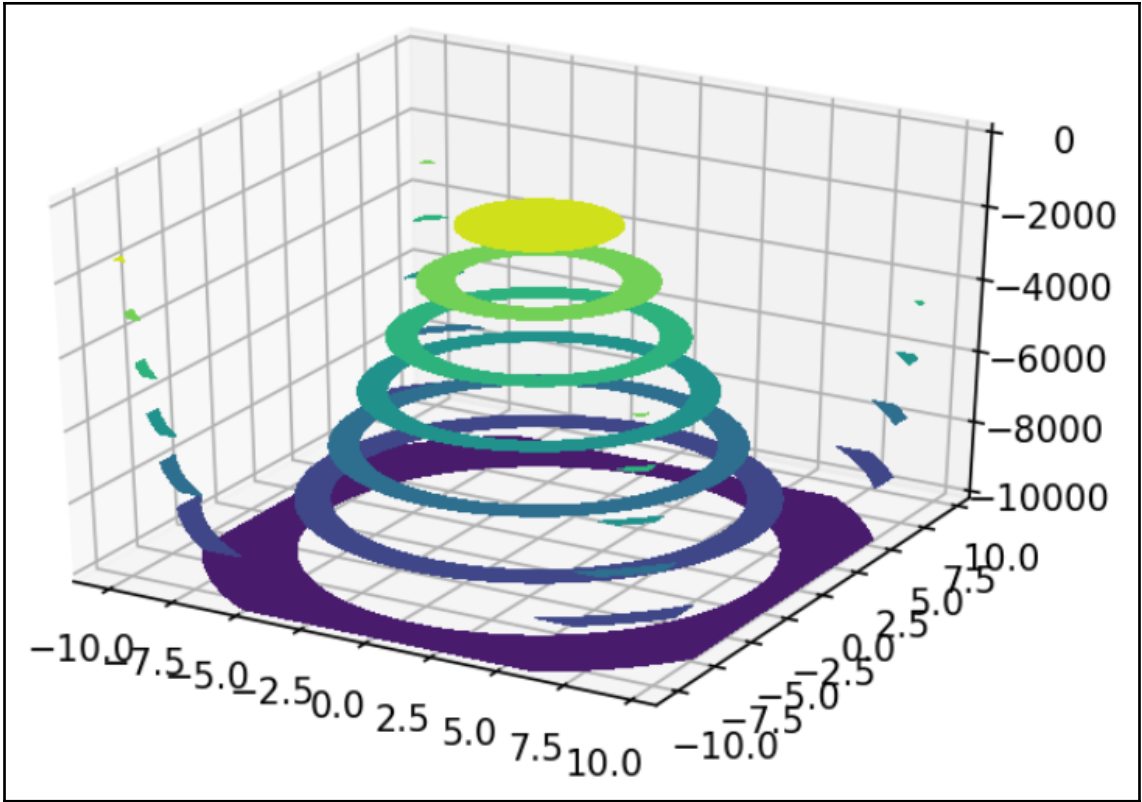


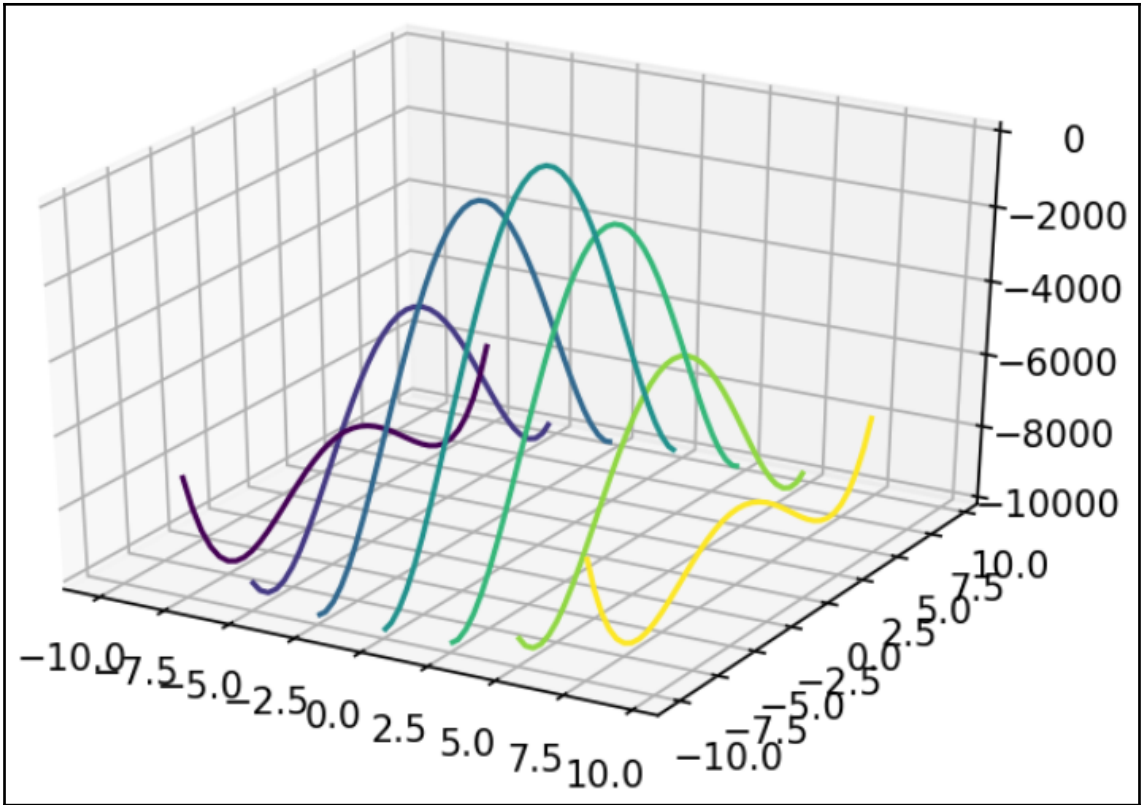


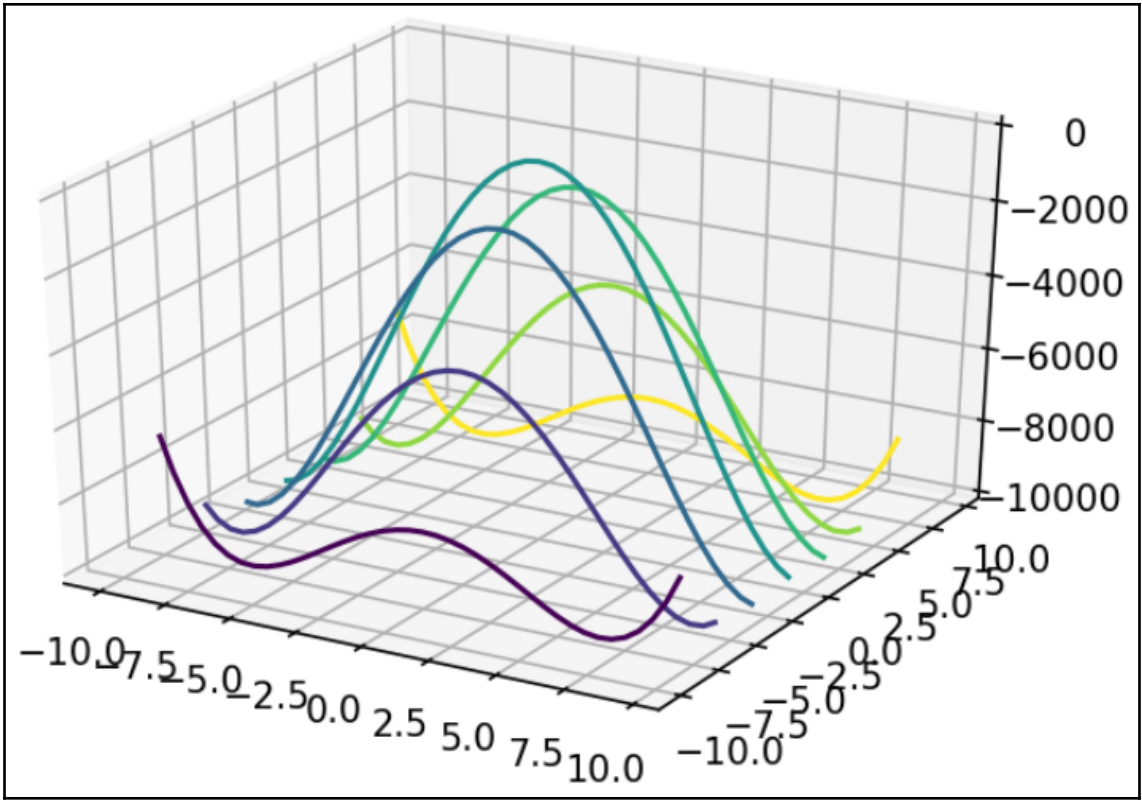


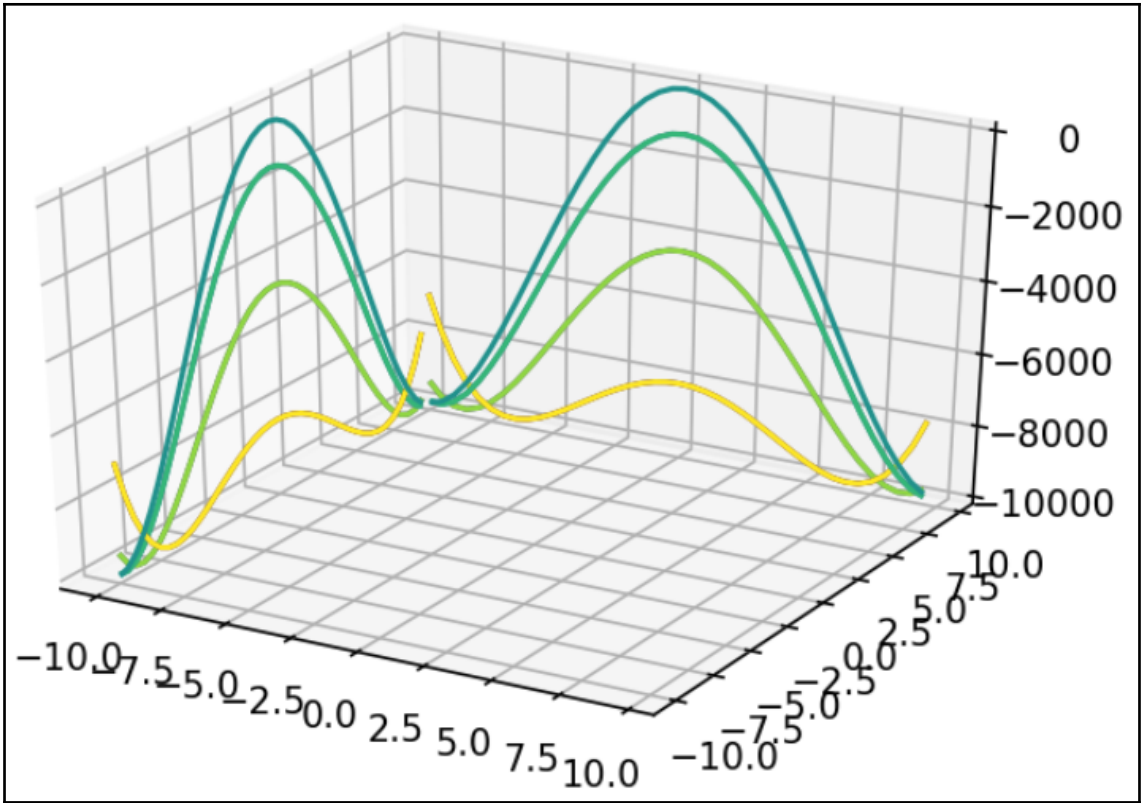


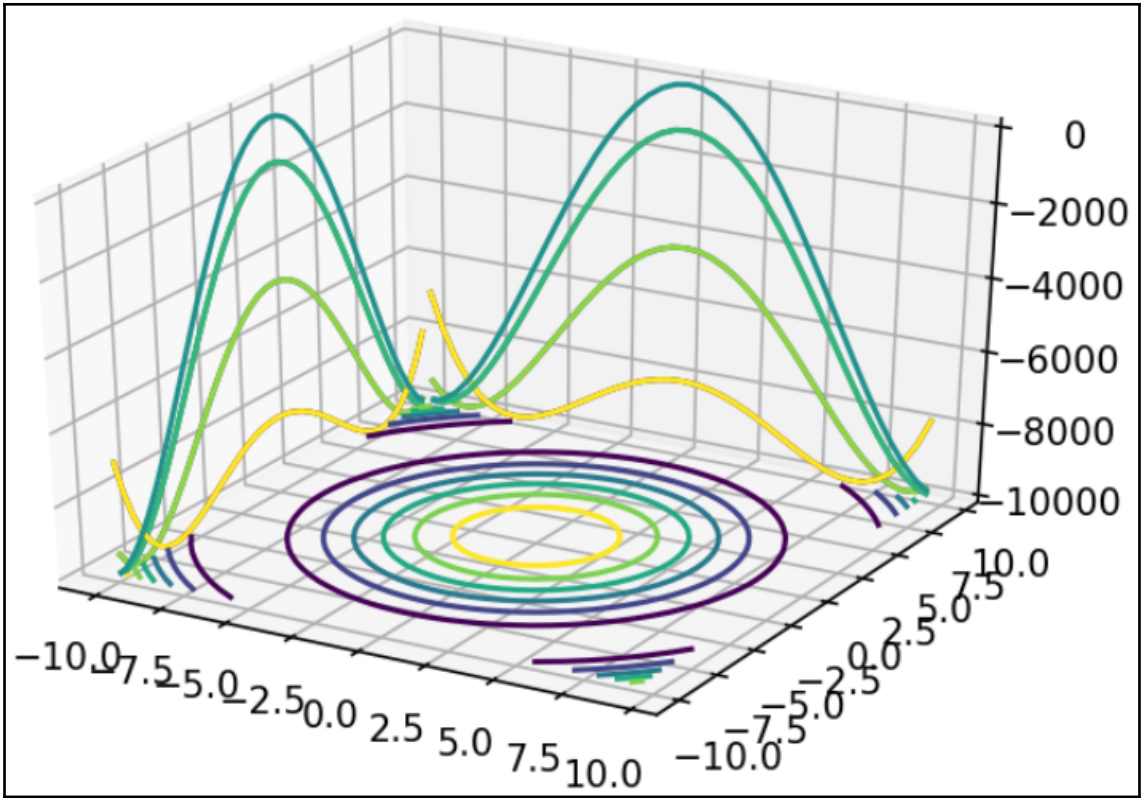


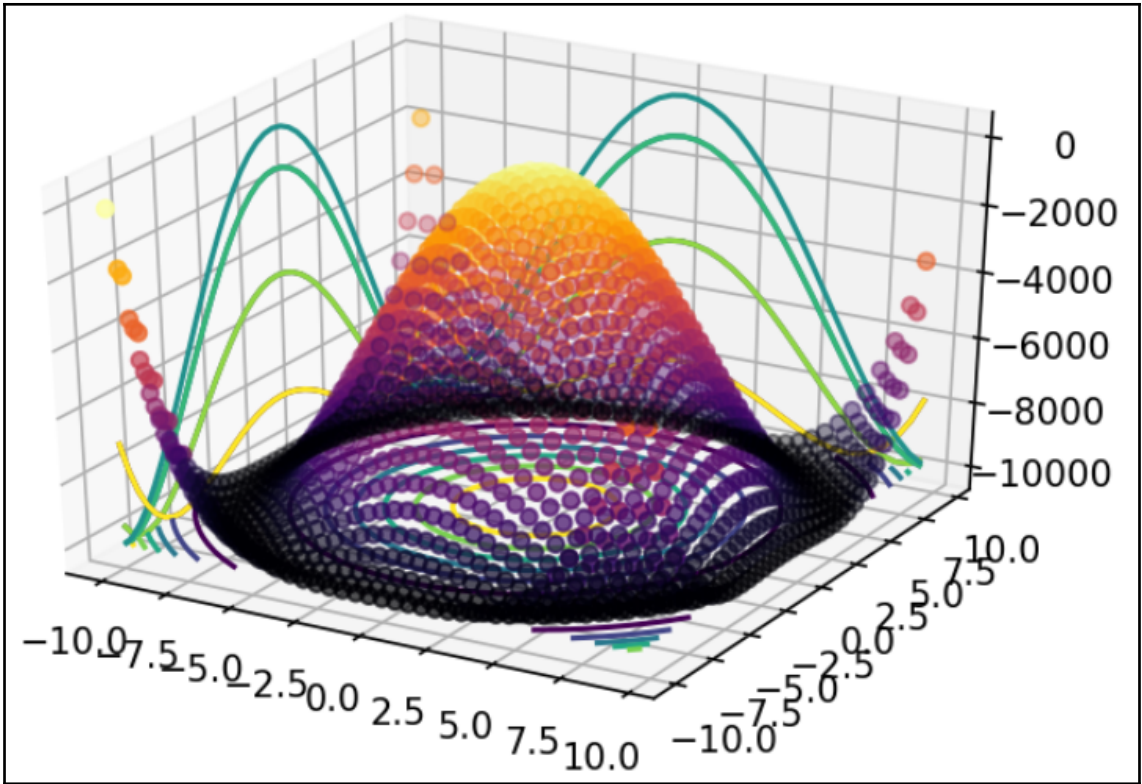




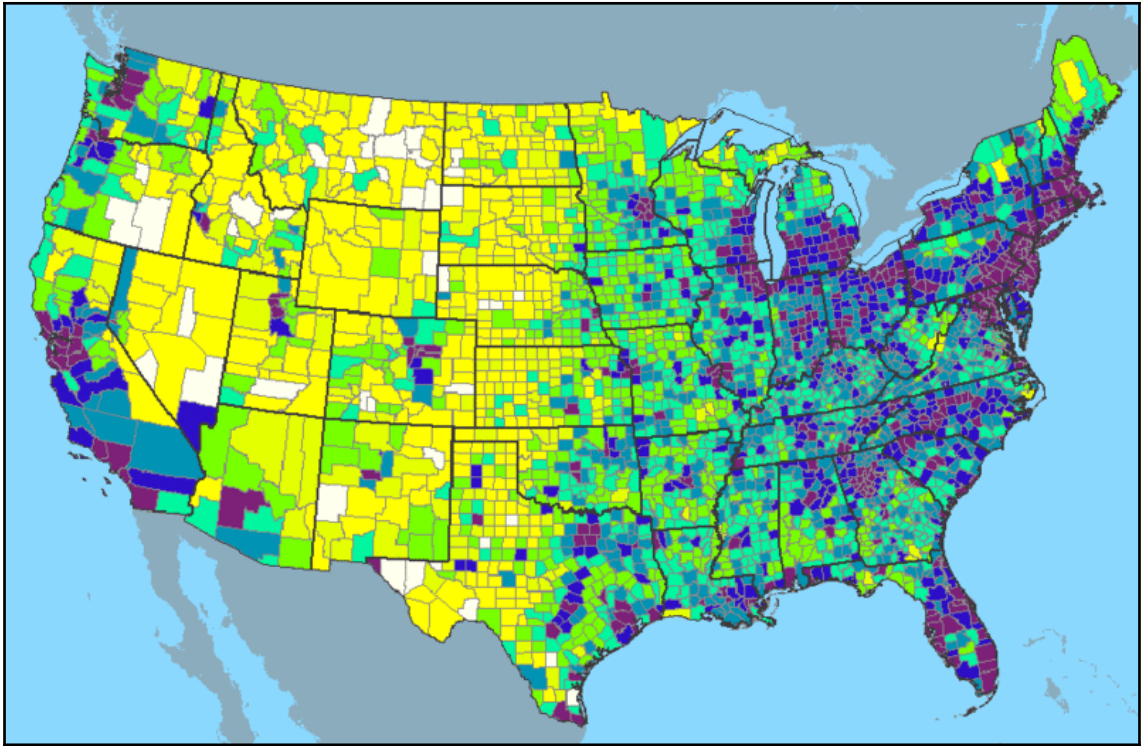


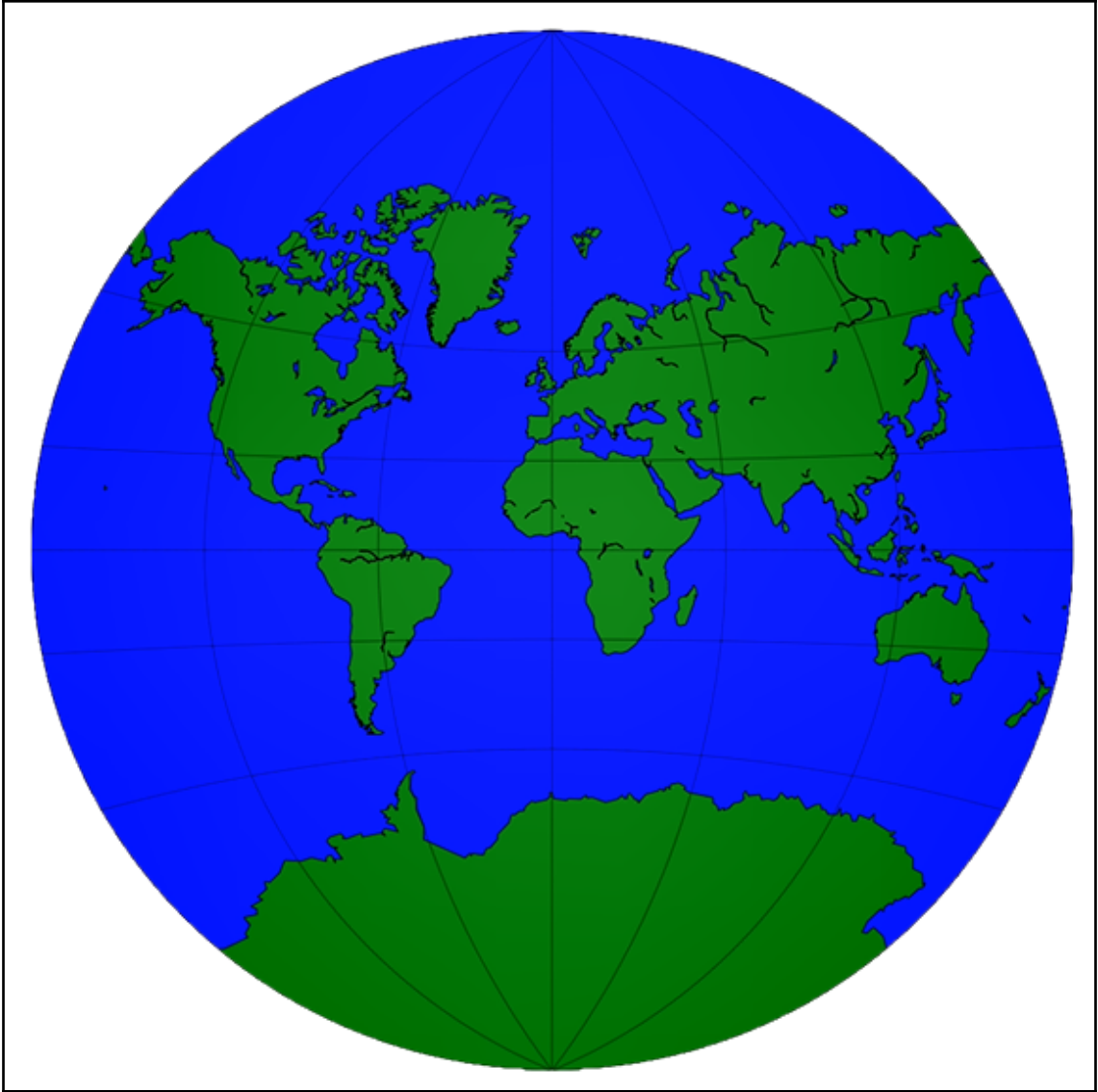


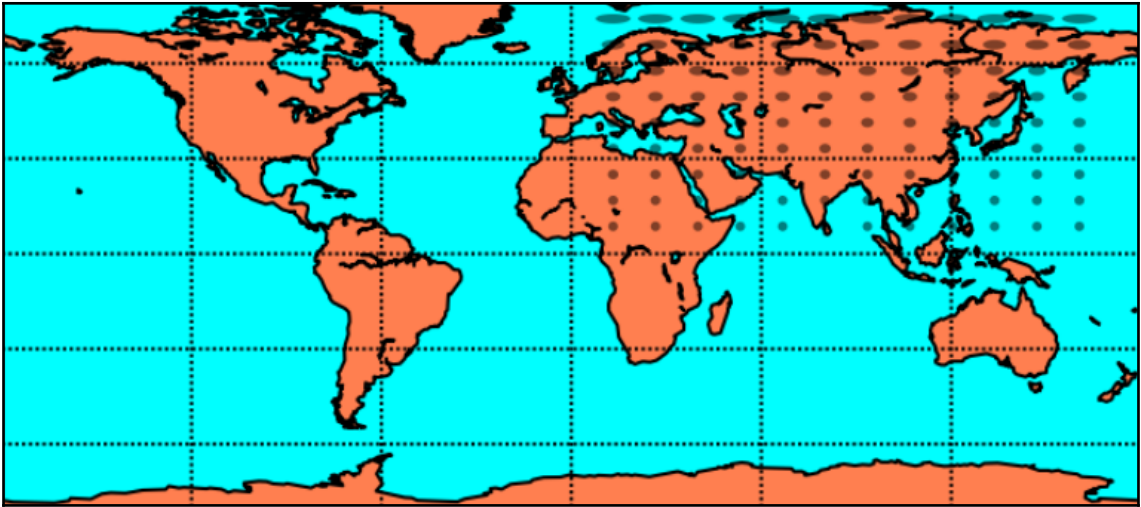


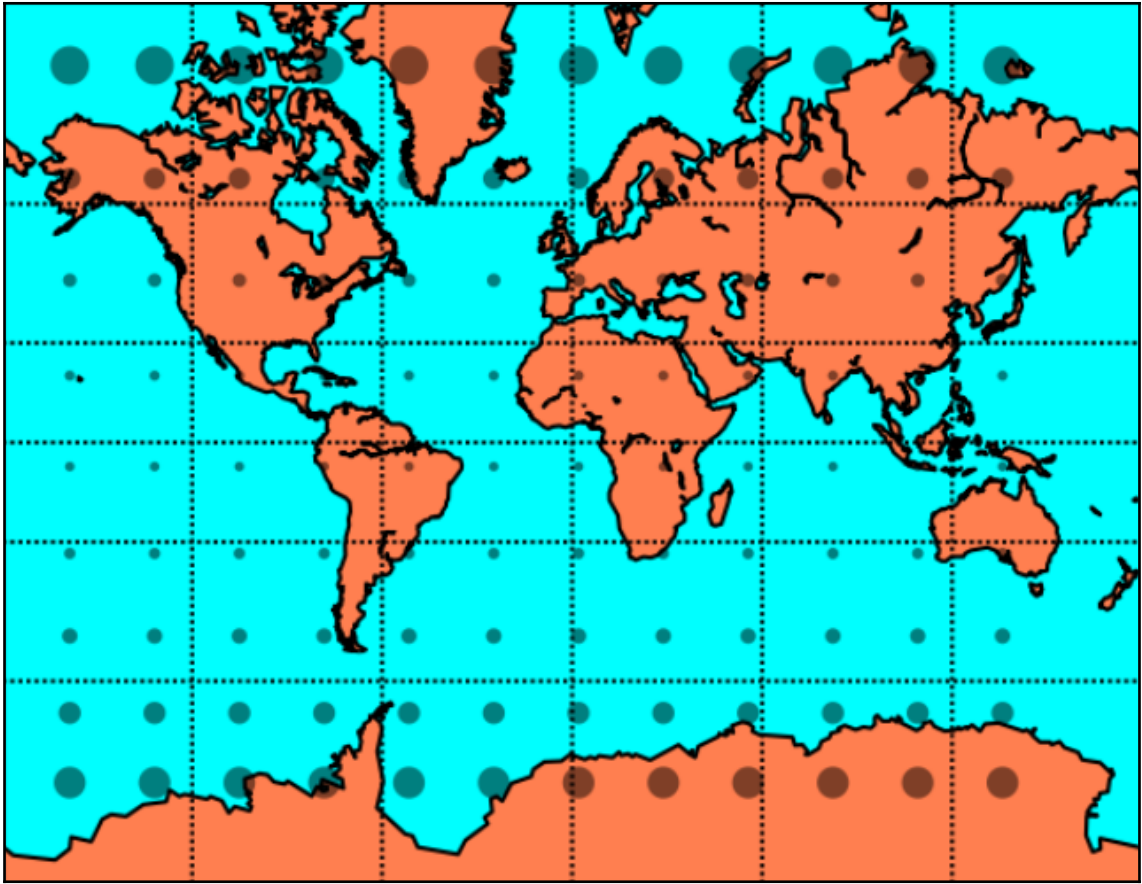


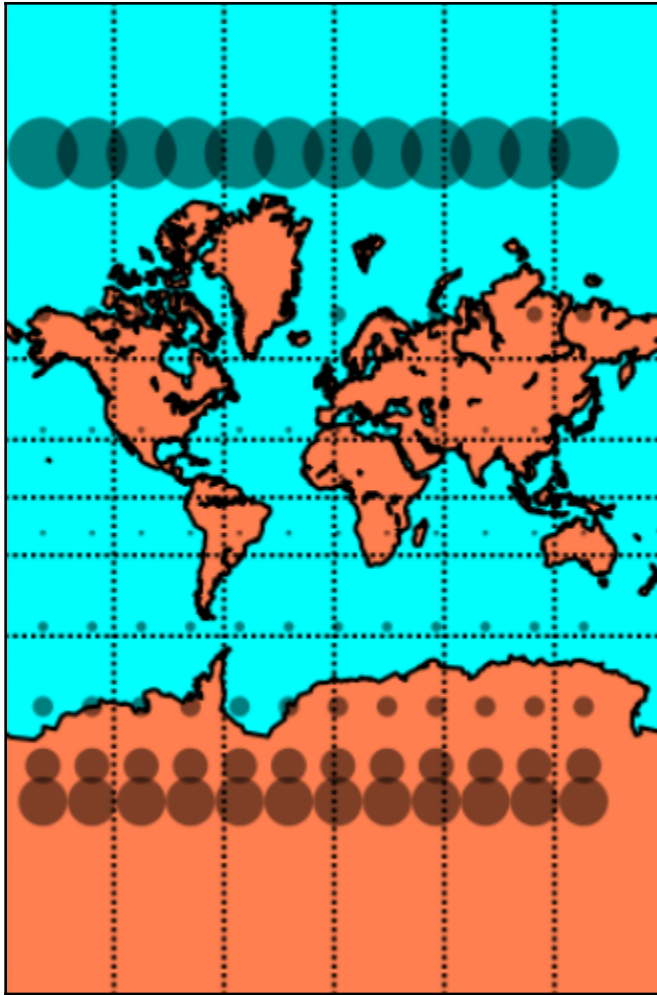


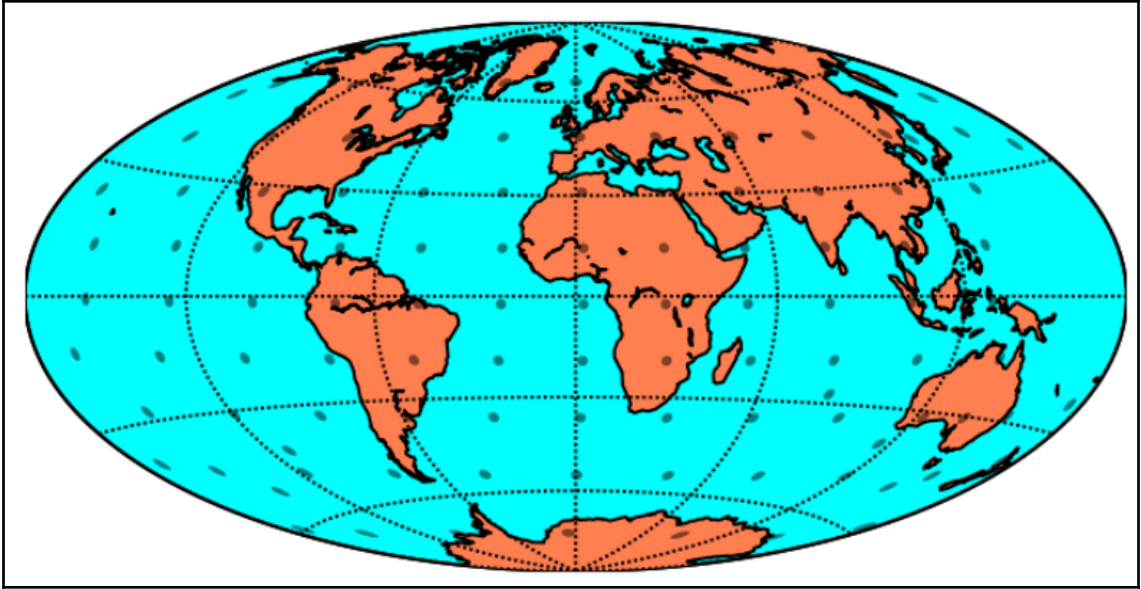


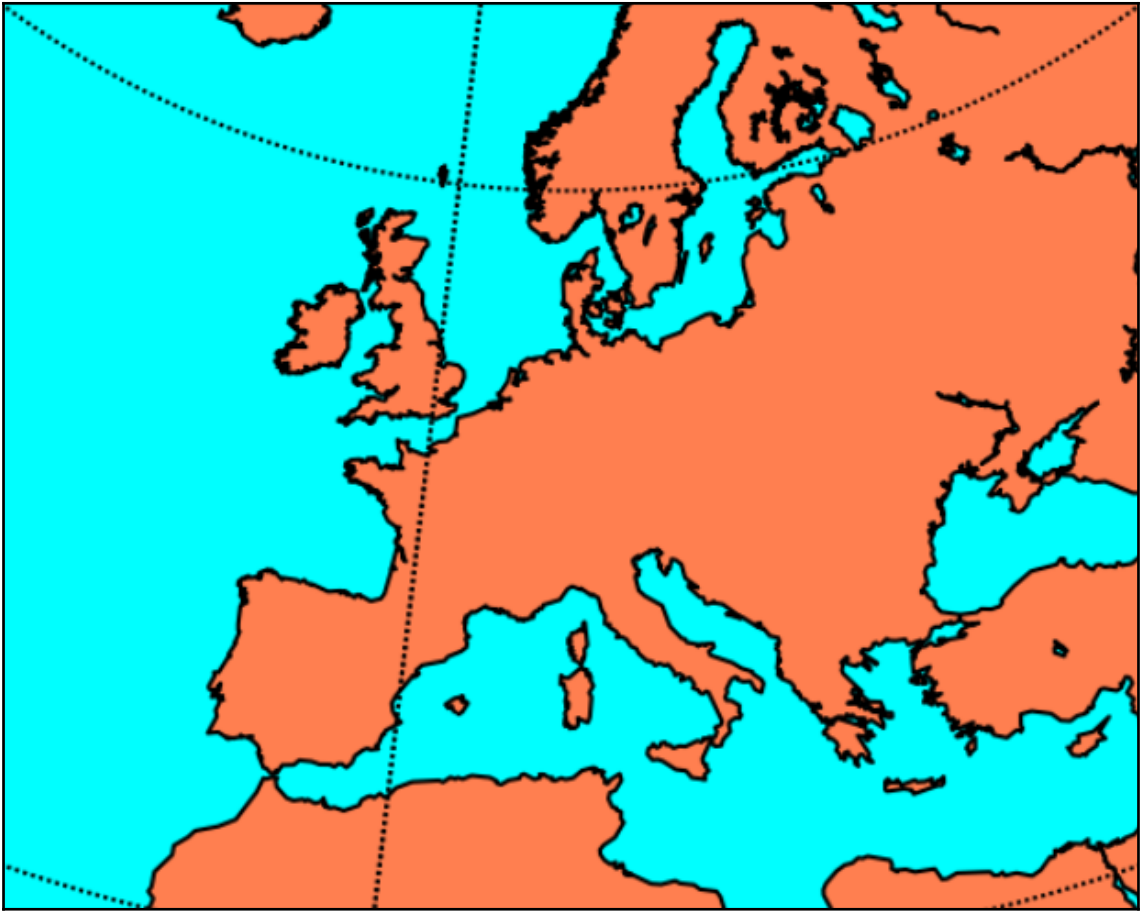


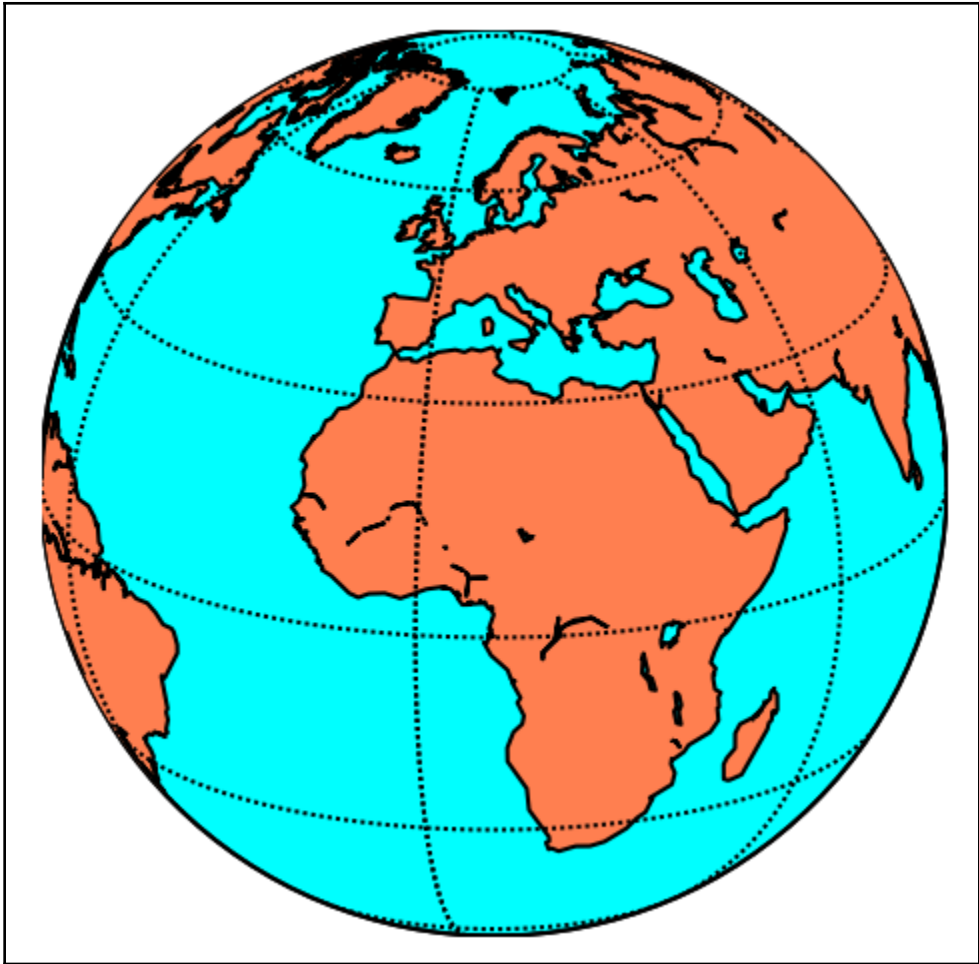




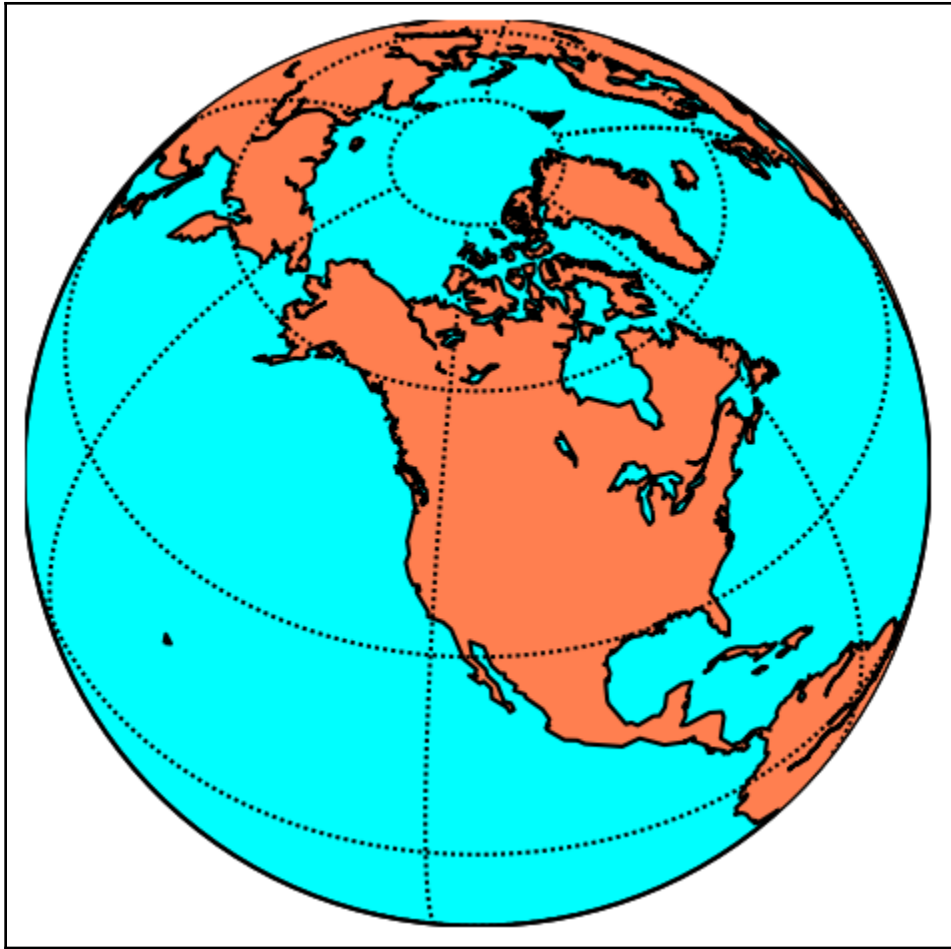


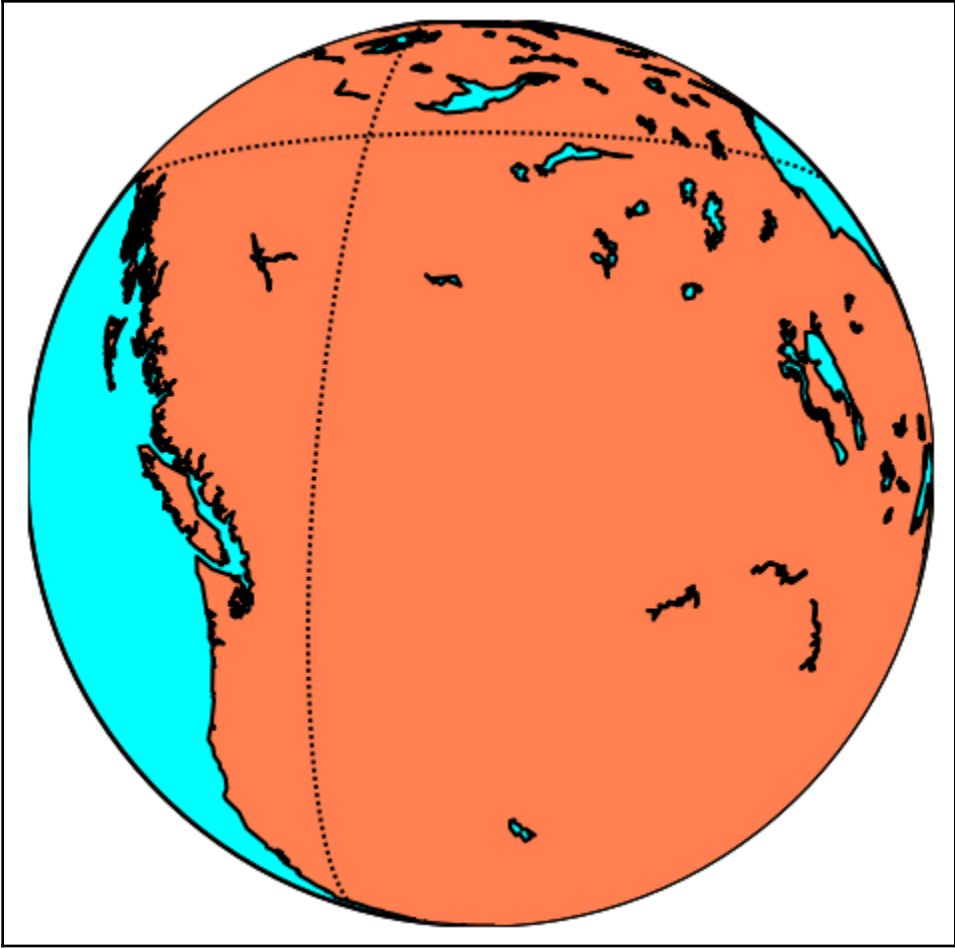


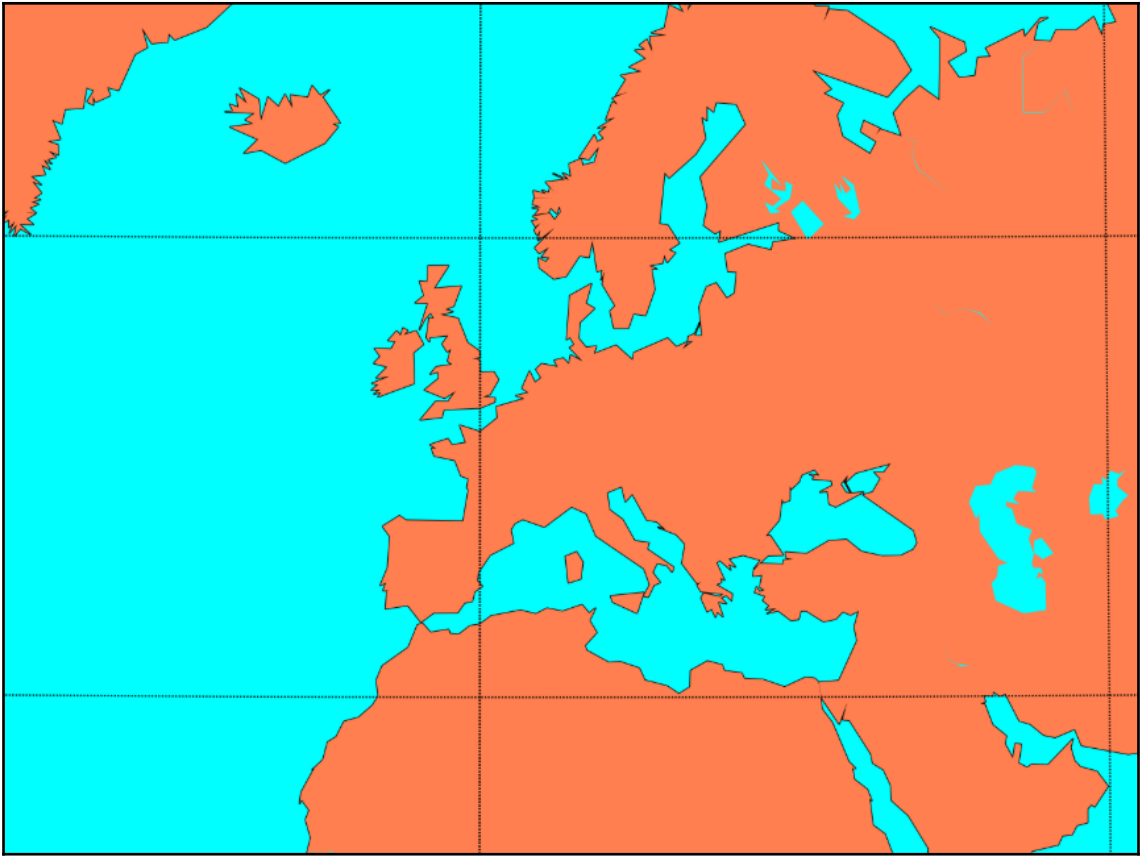


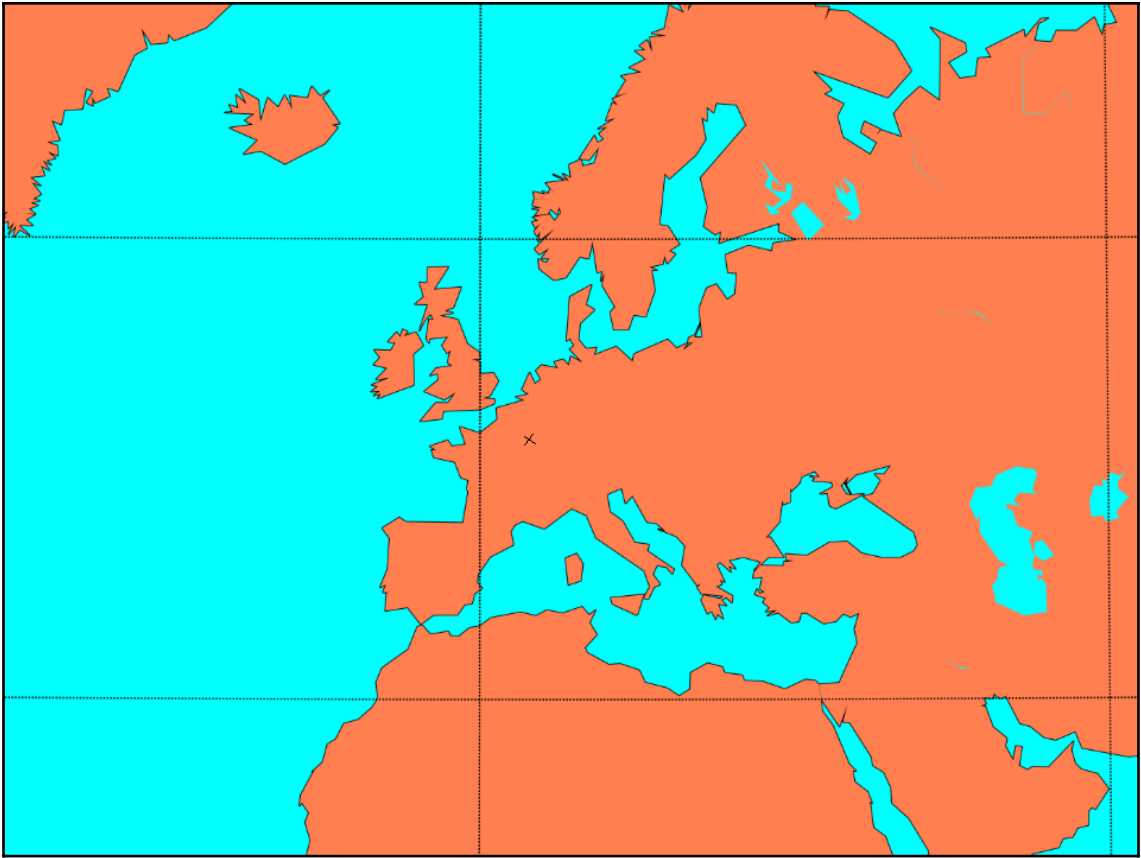


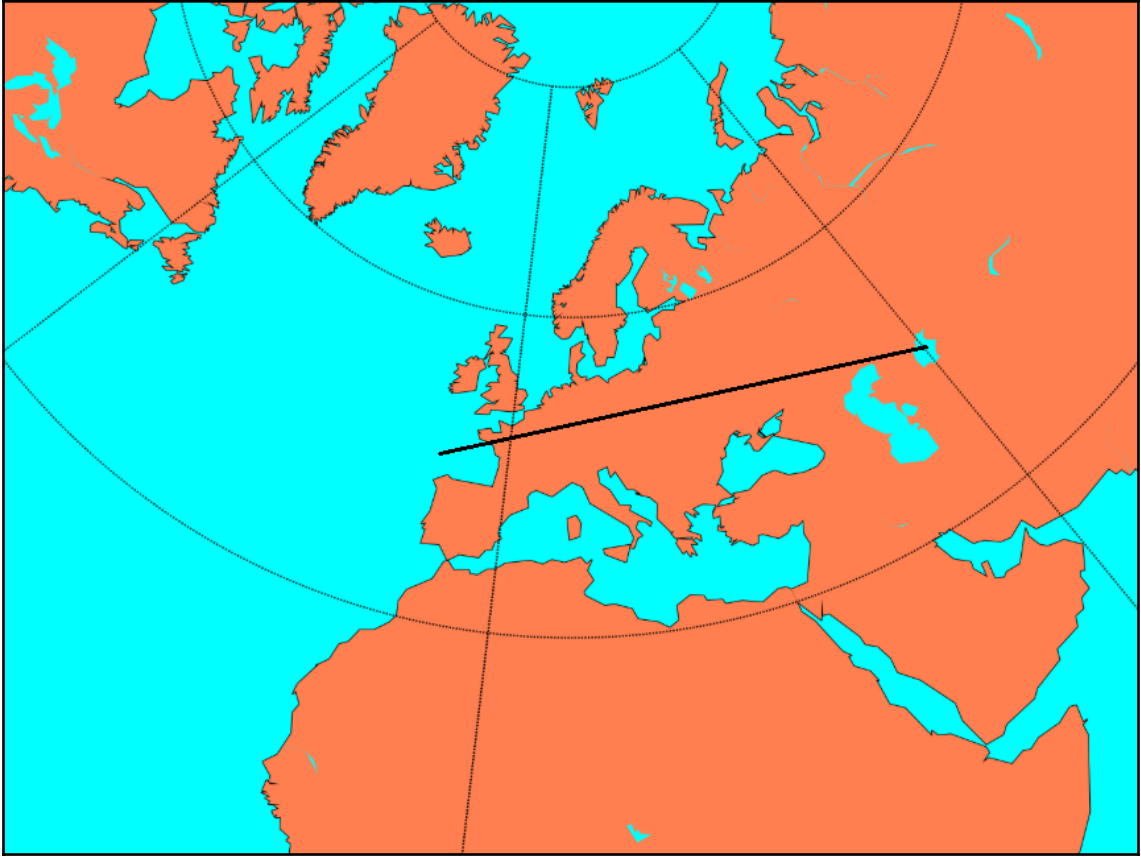


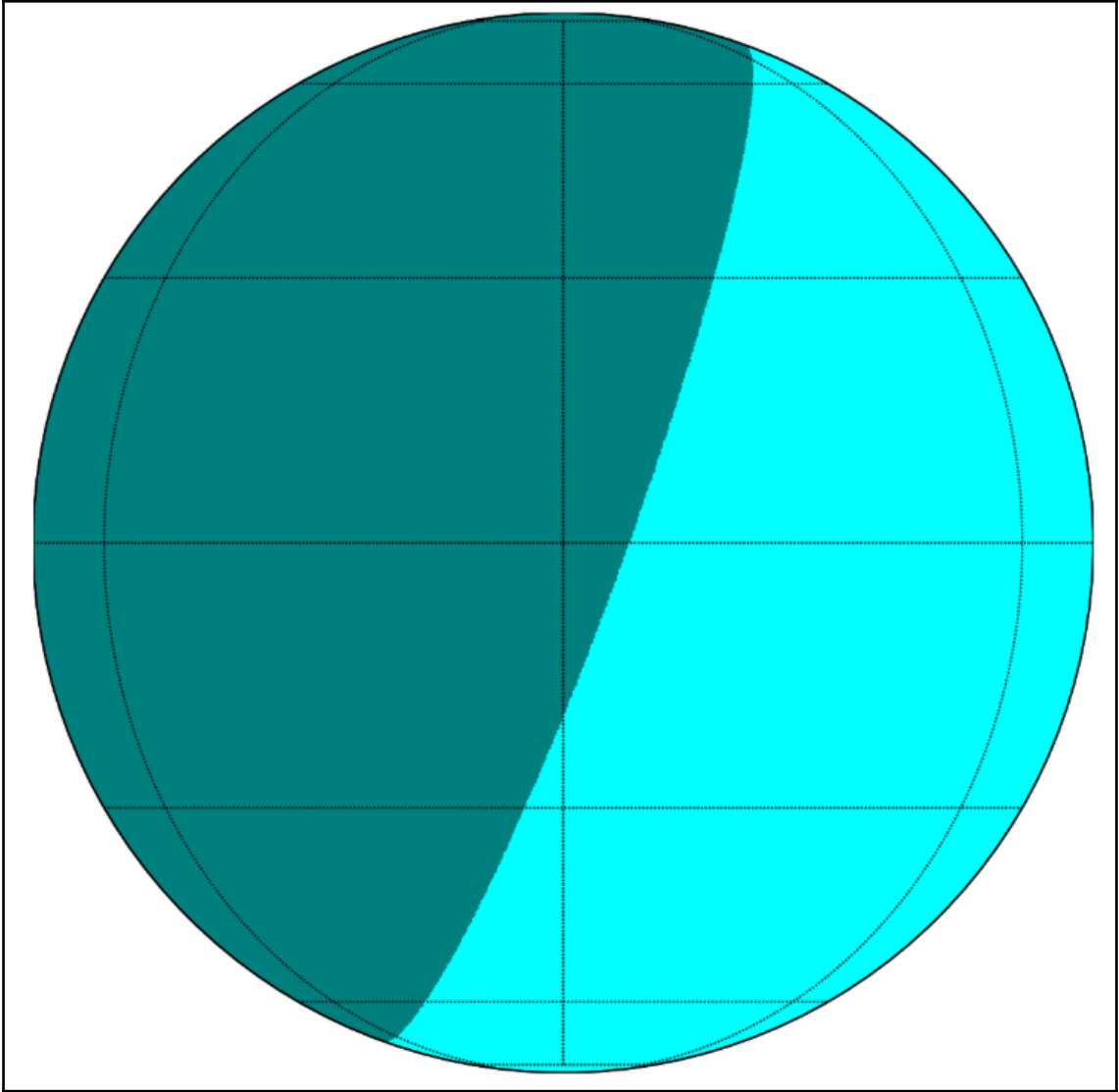


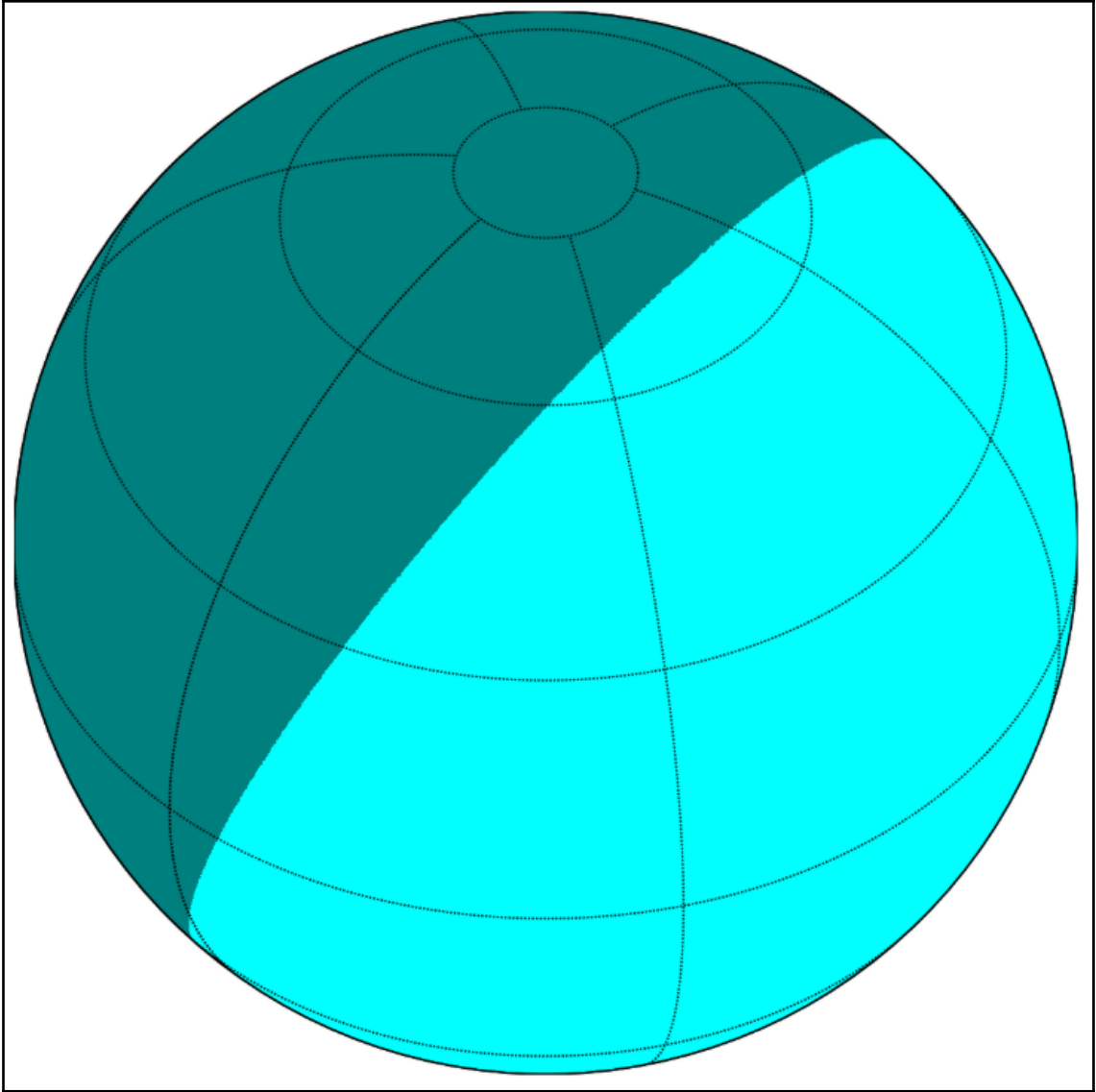










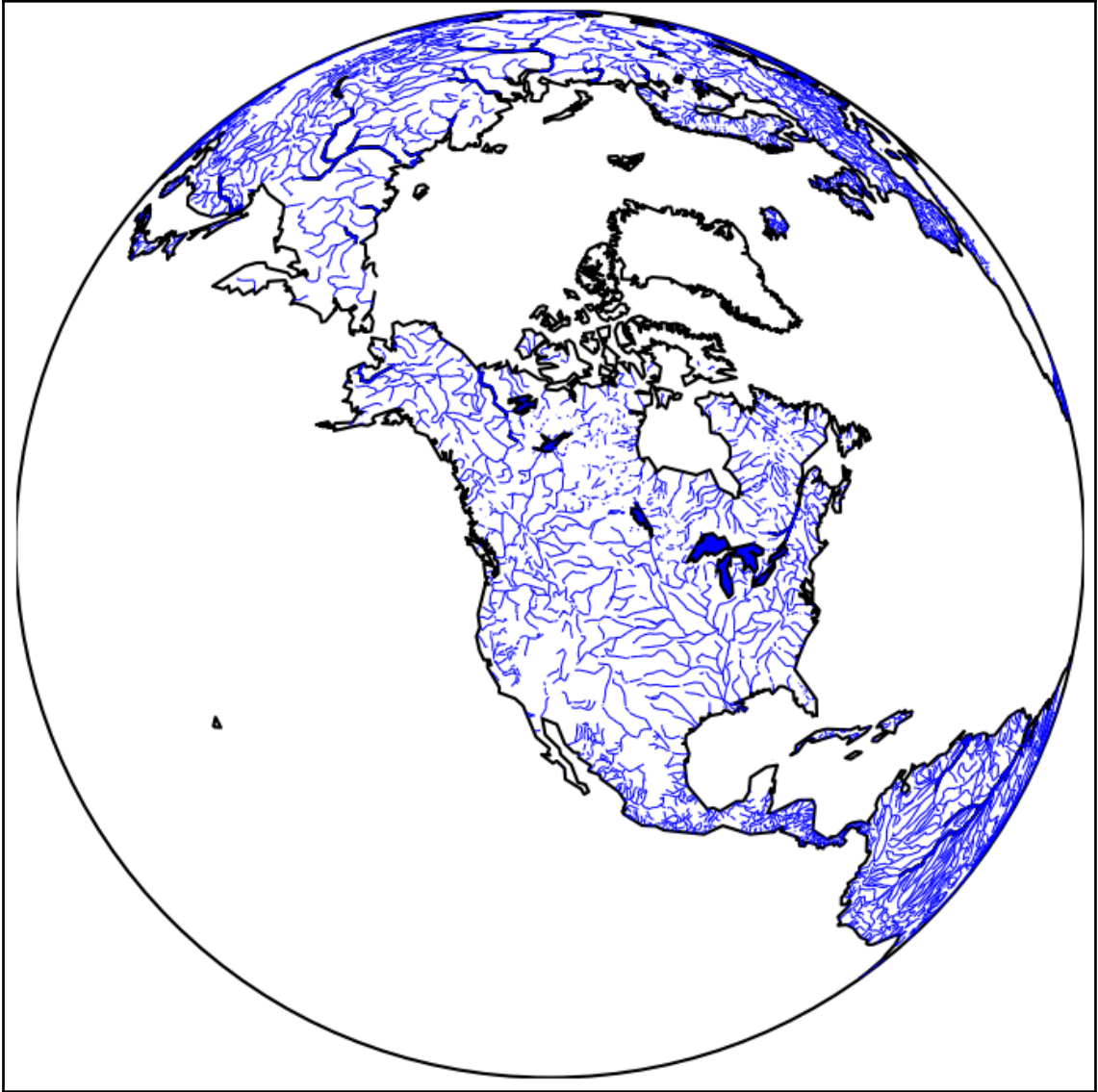






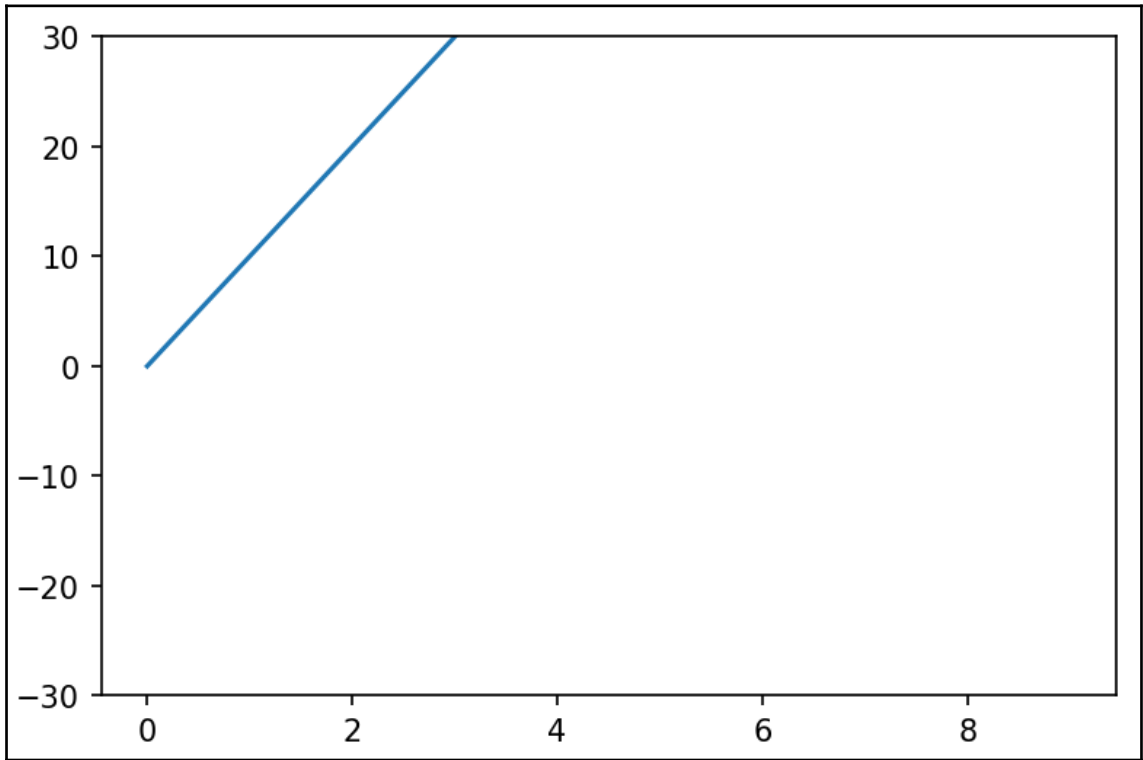


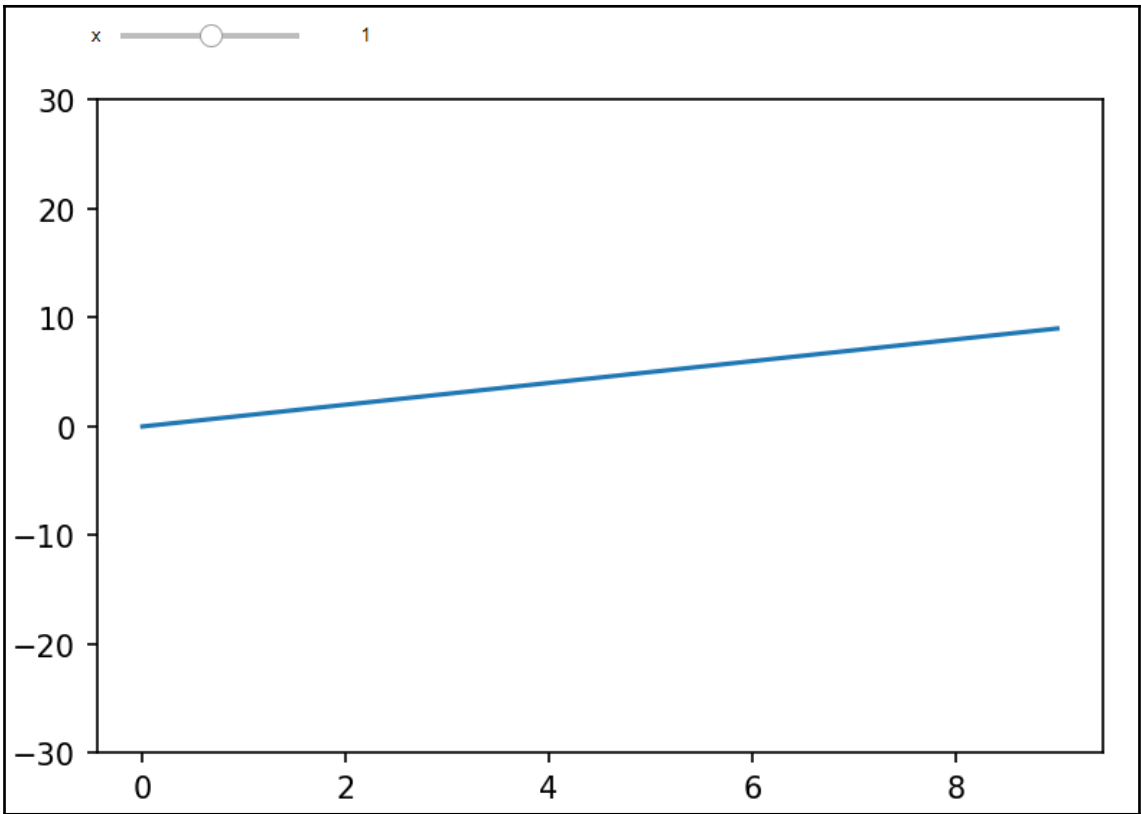


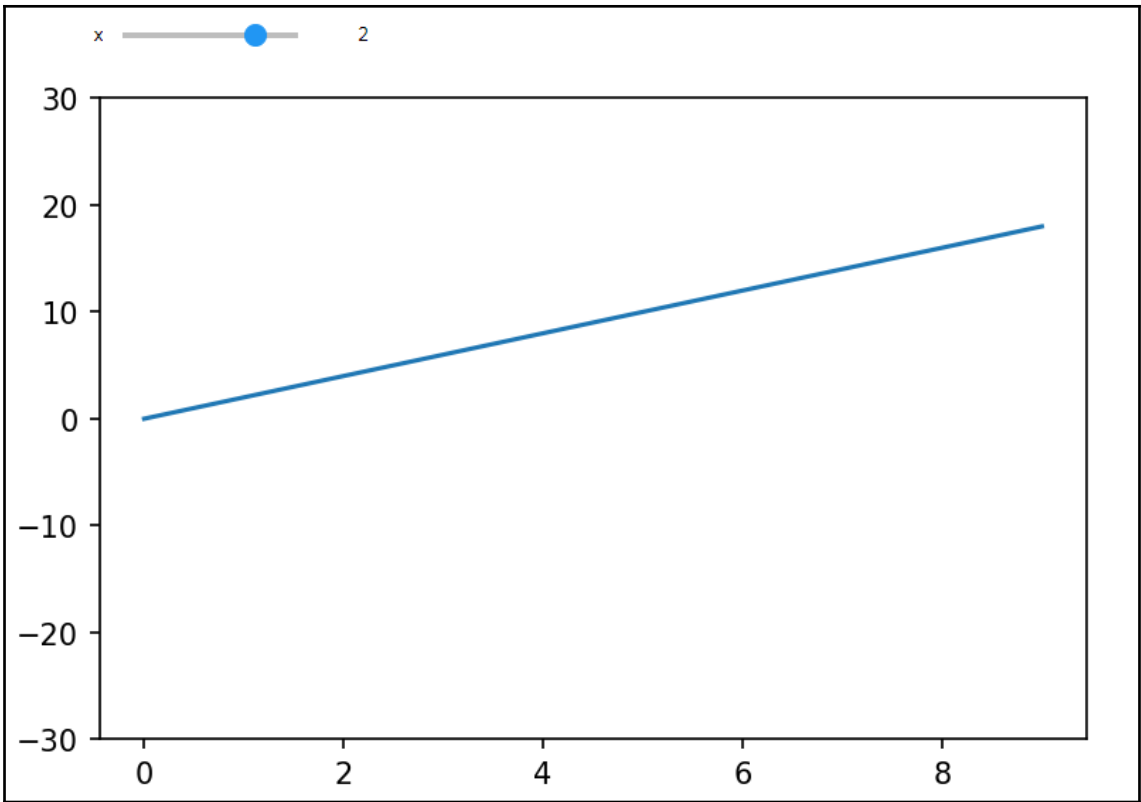


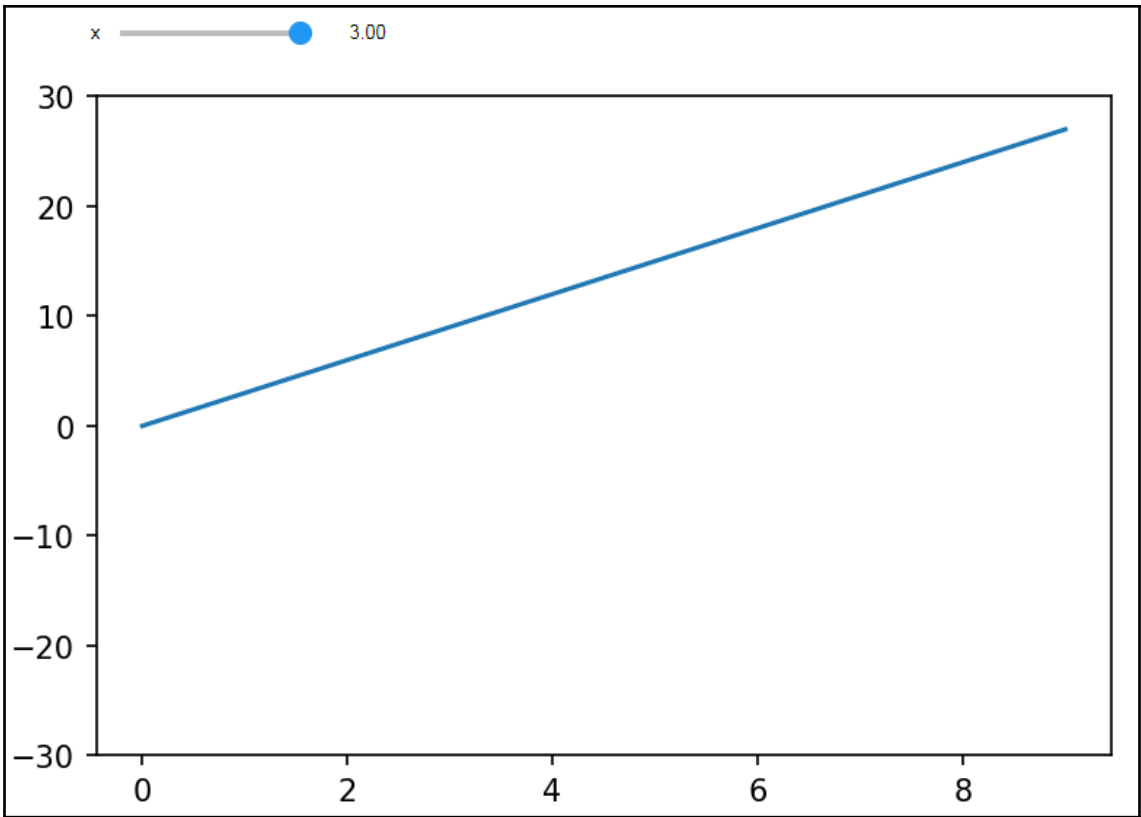
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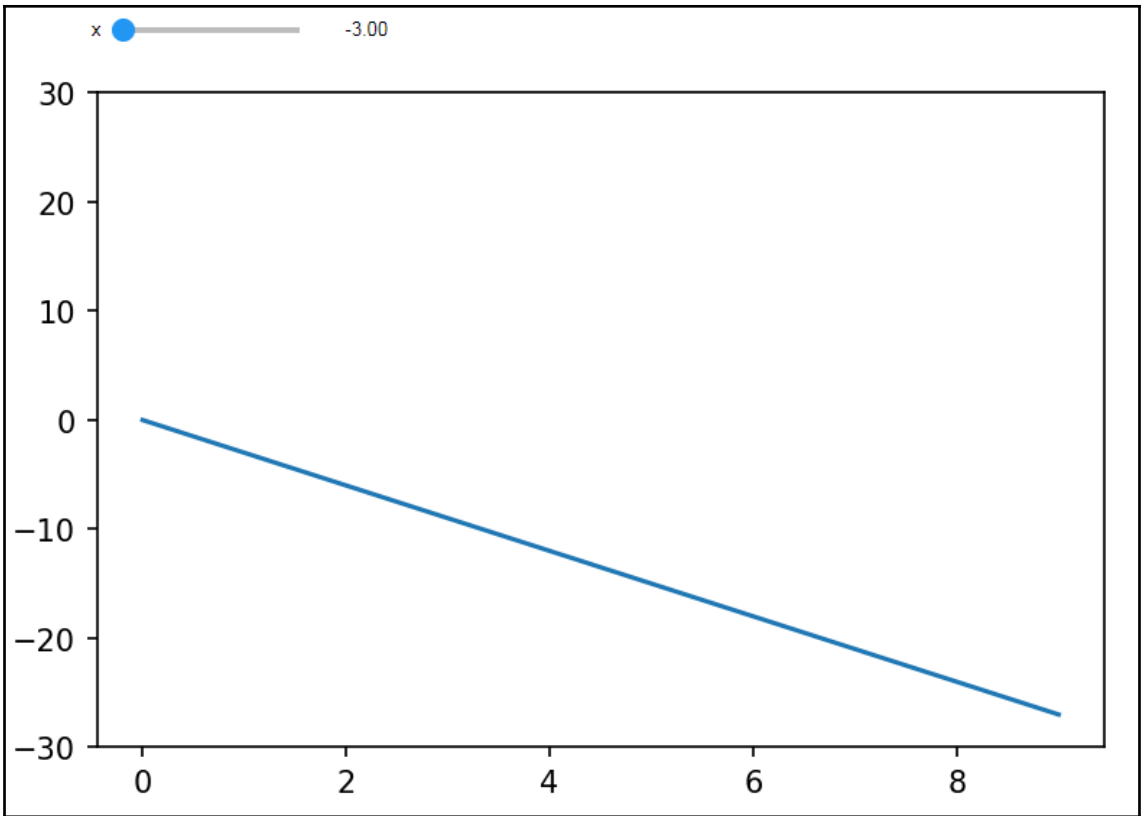
## Chapter 5: Interactive Plotting



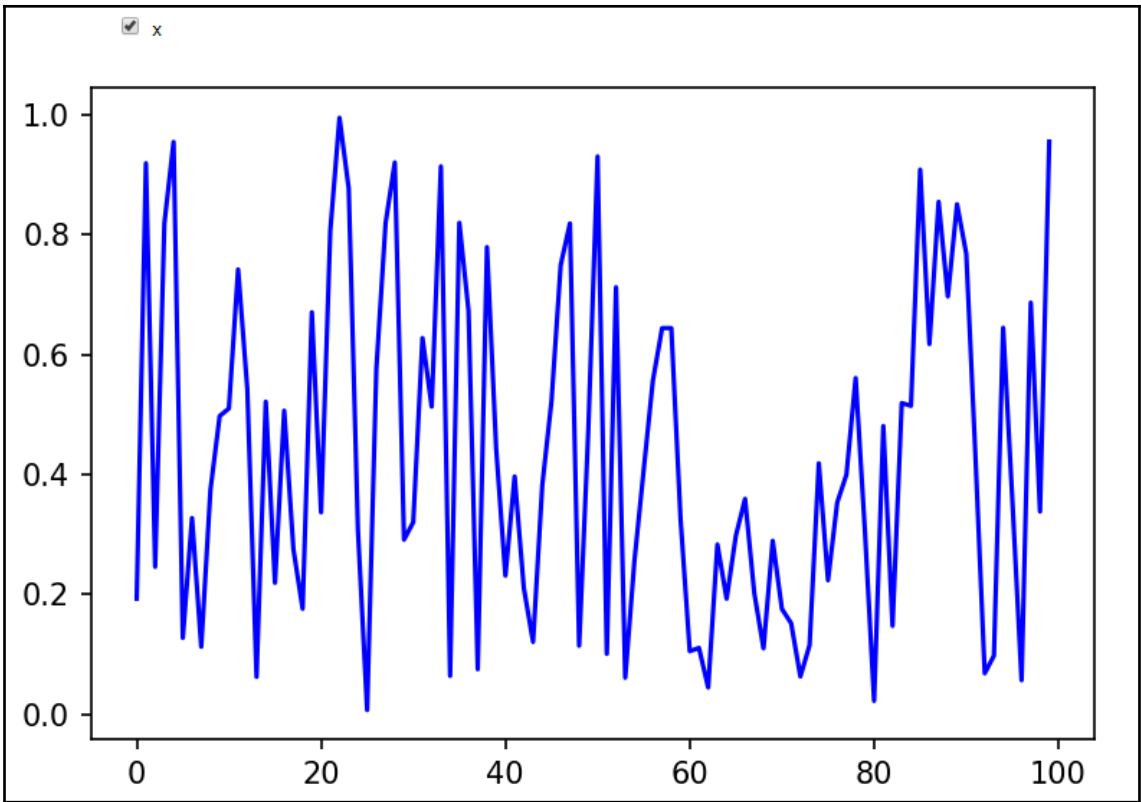


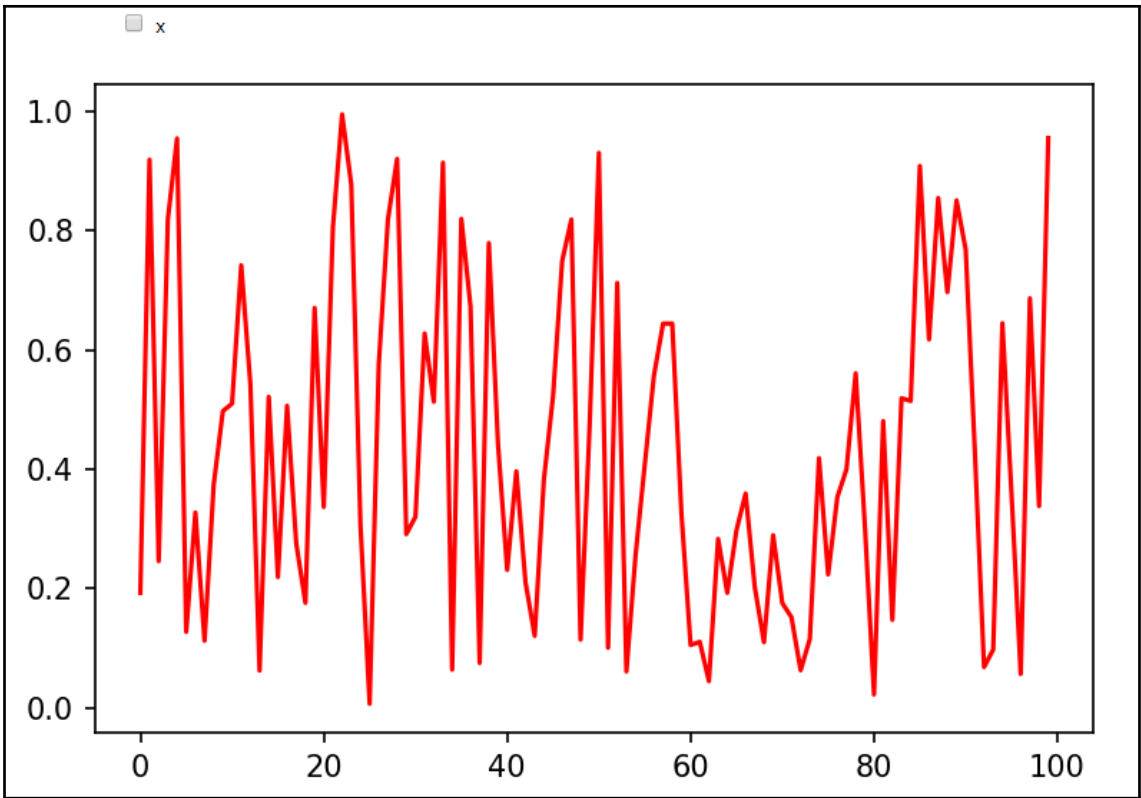


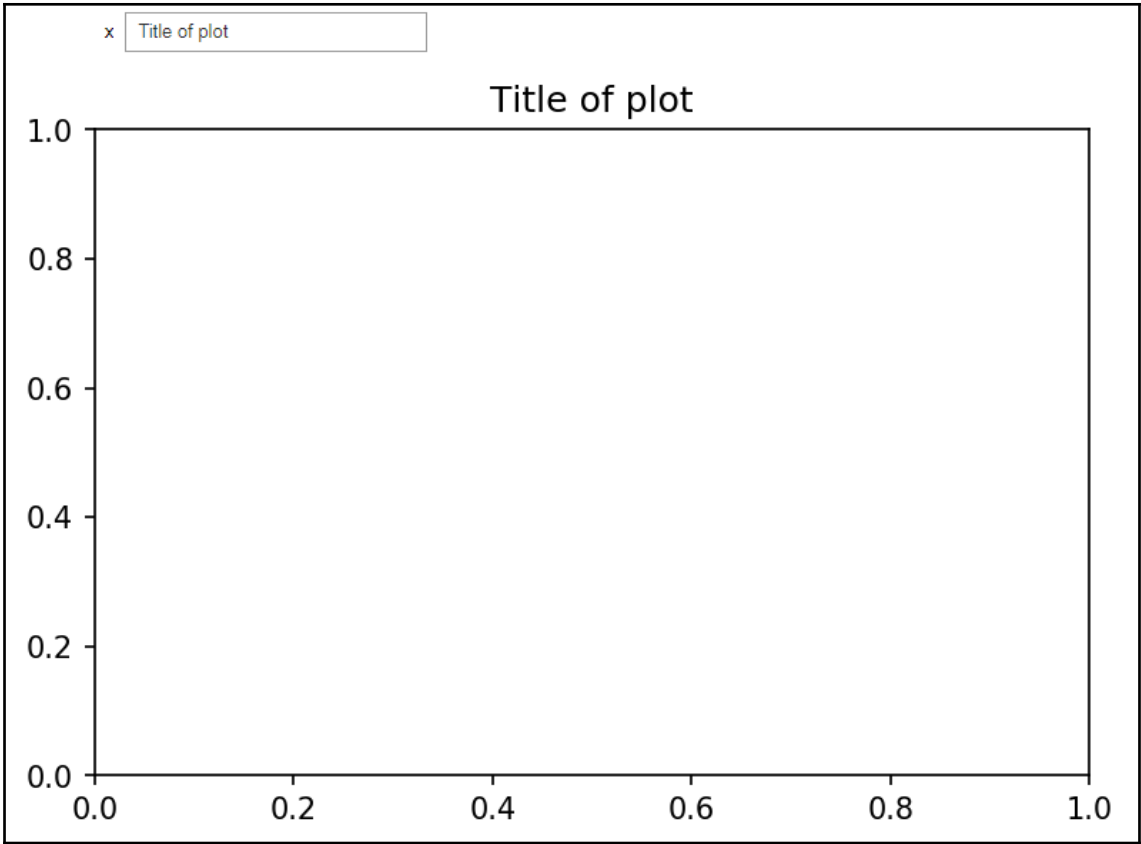


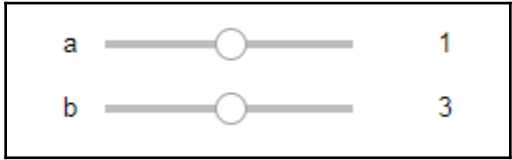
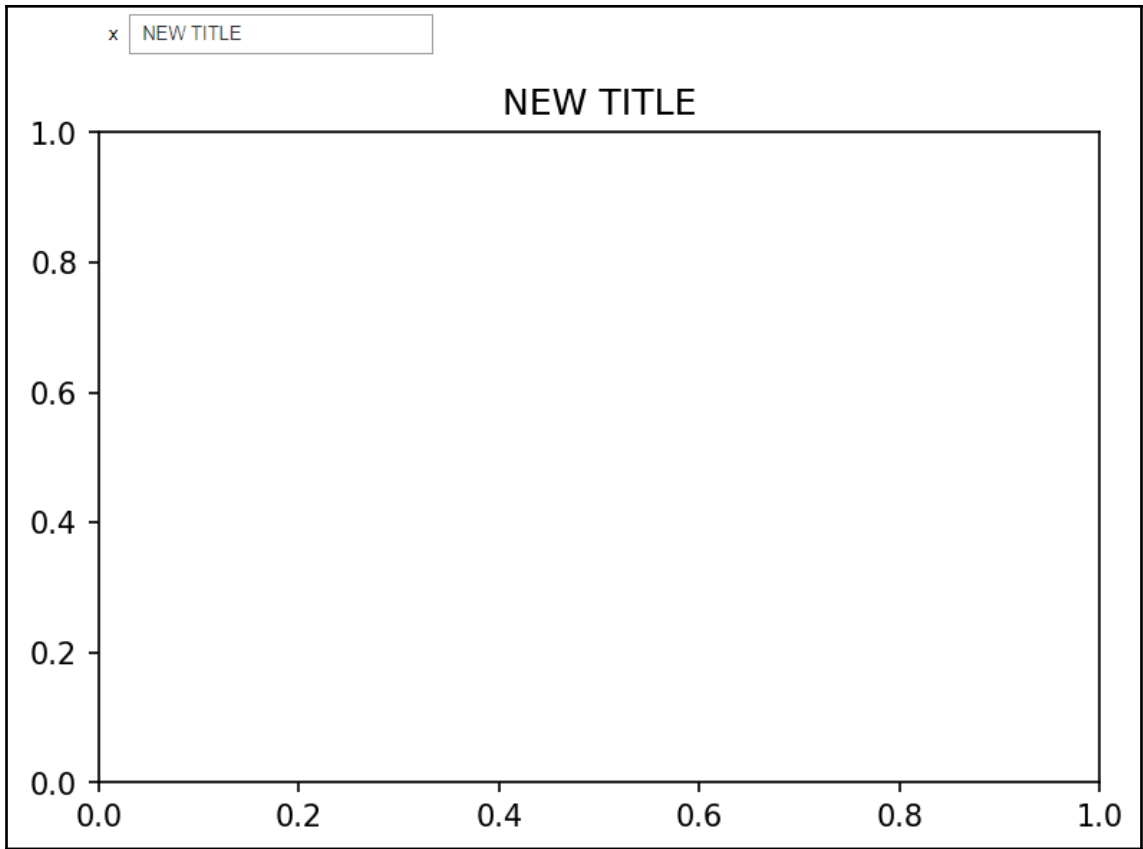


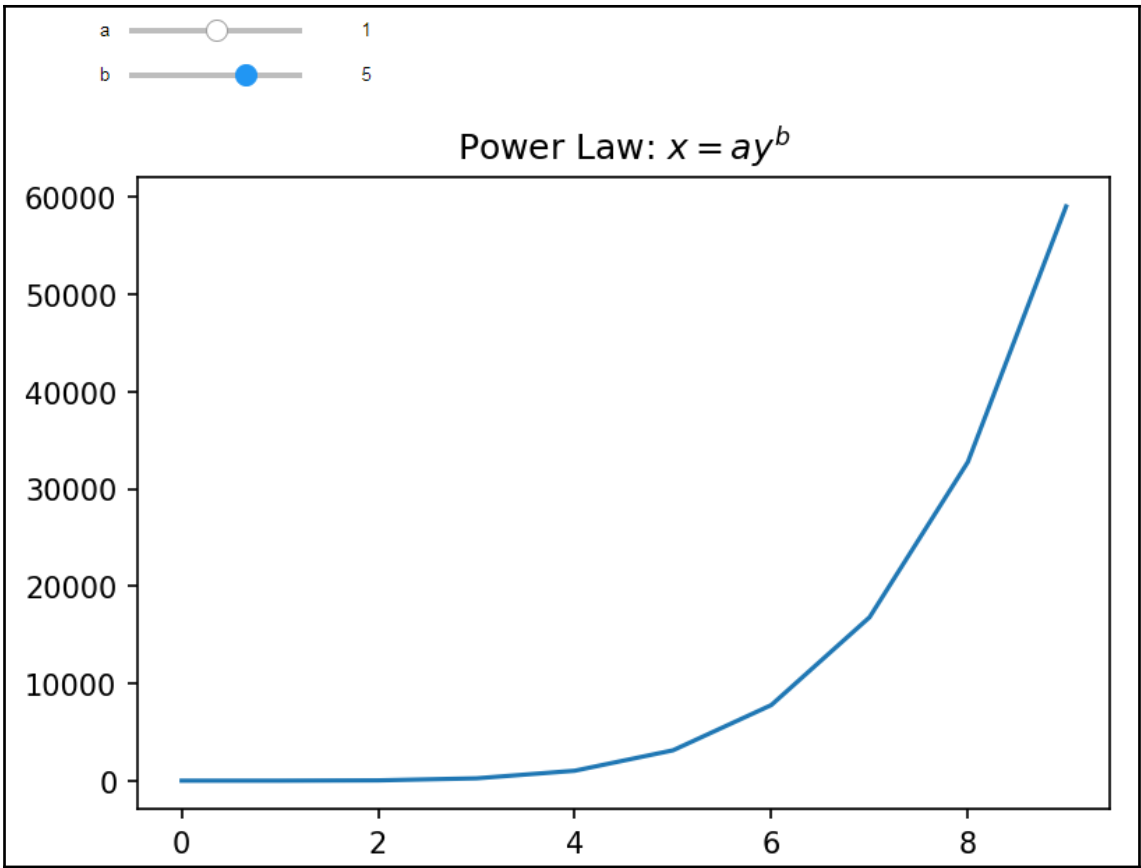


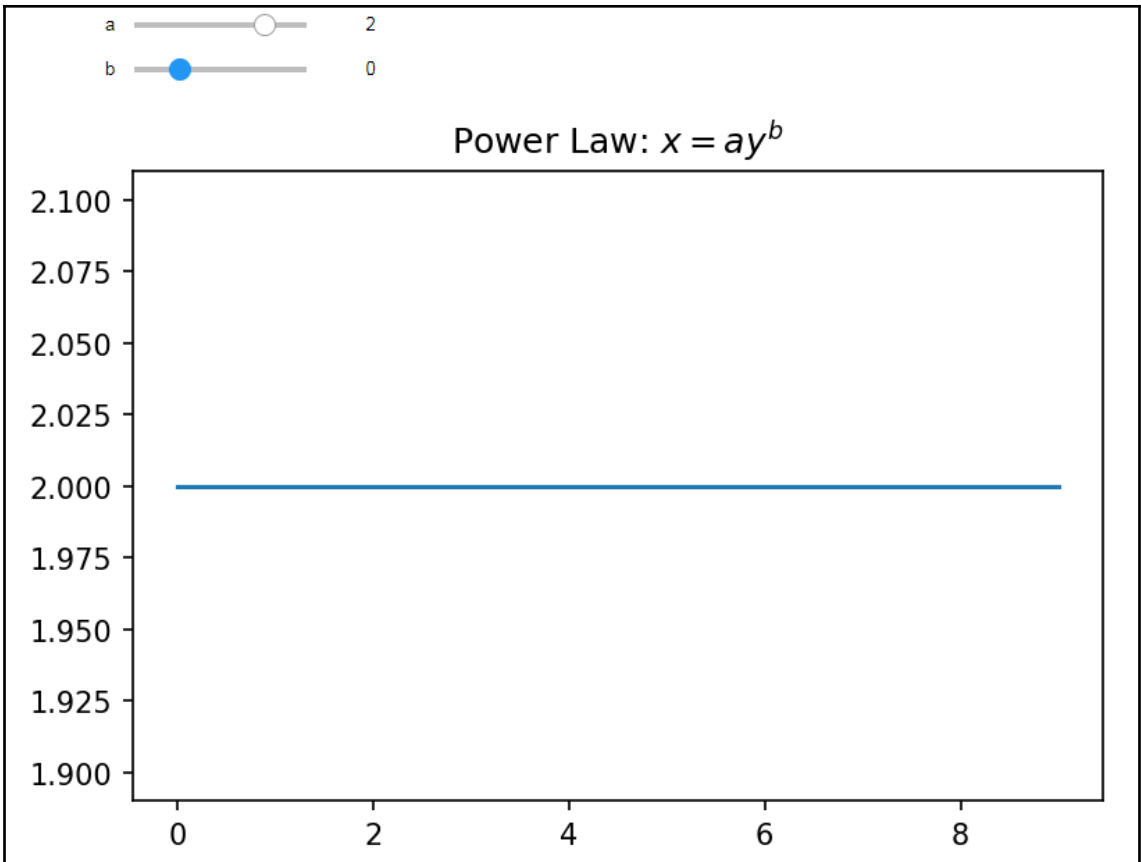


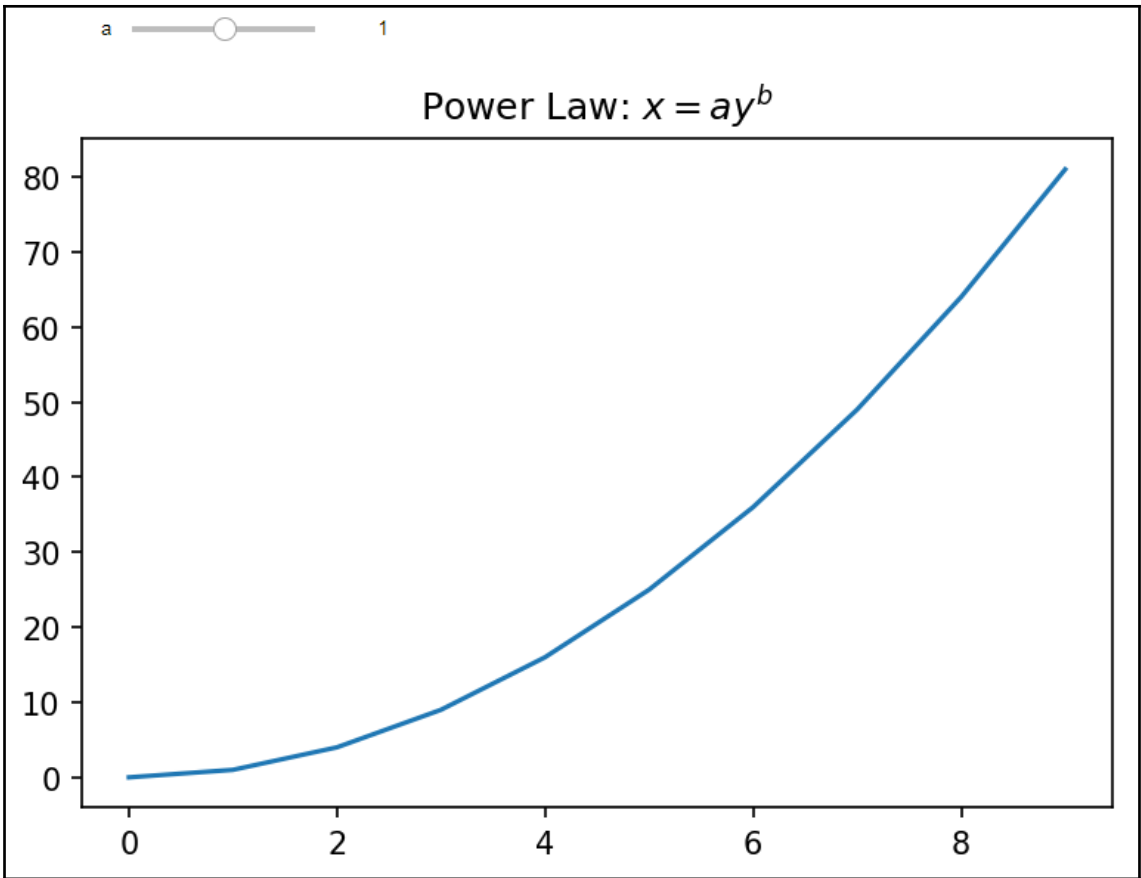


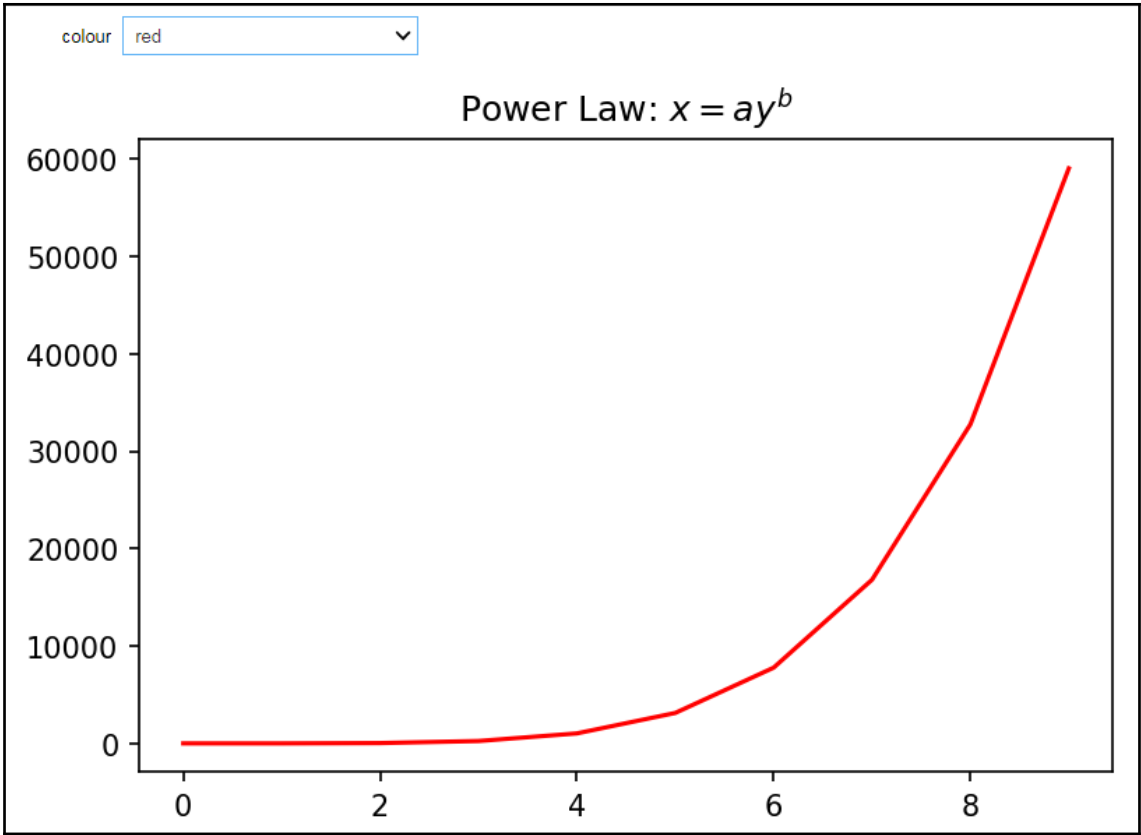




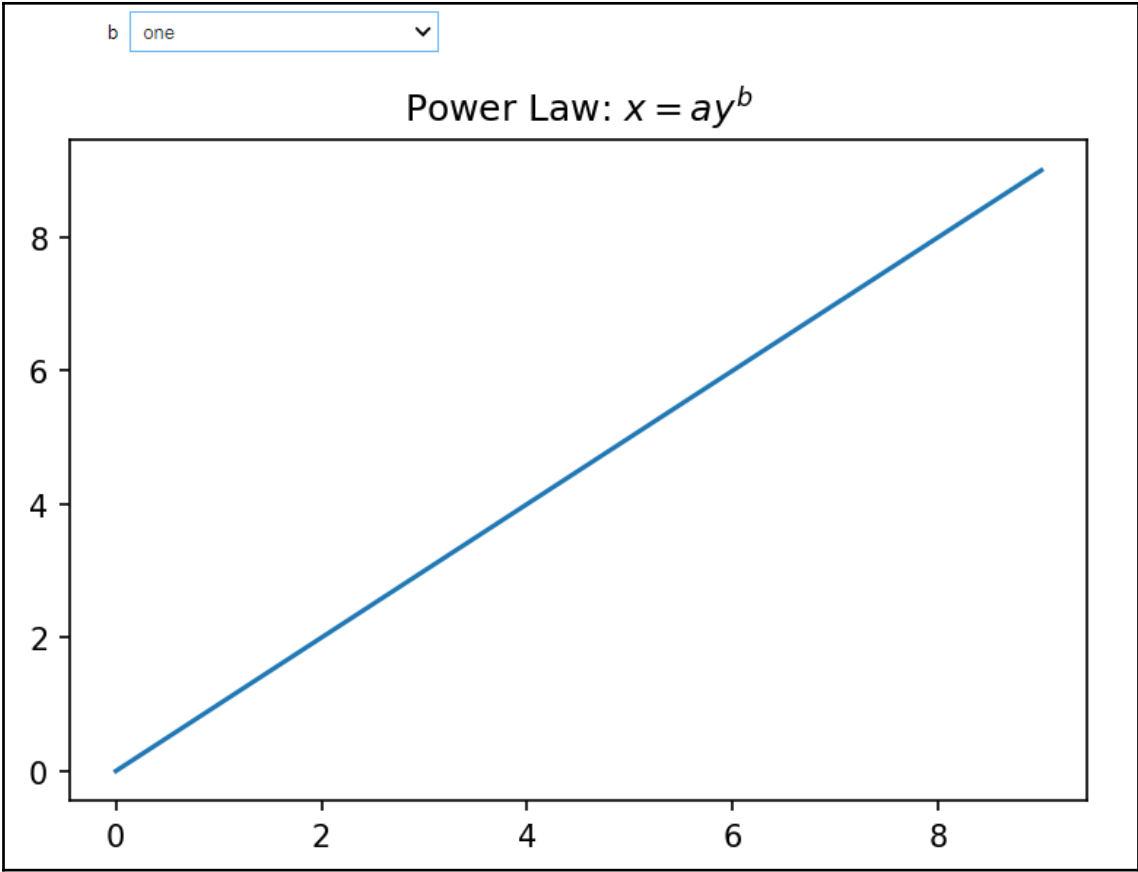


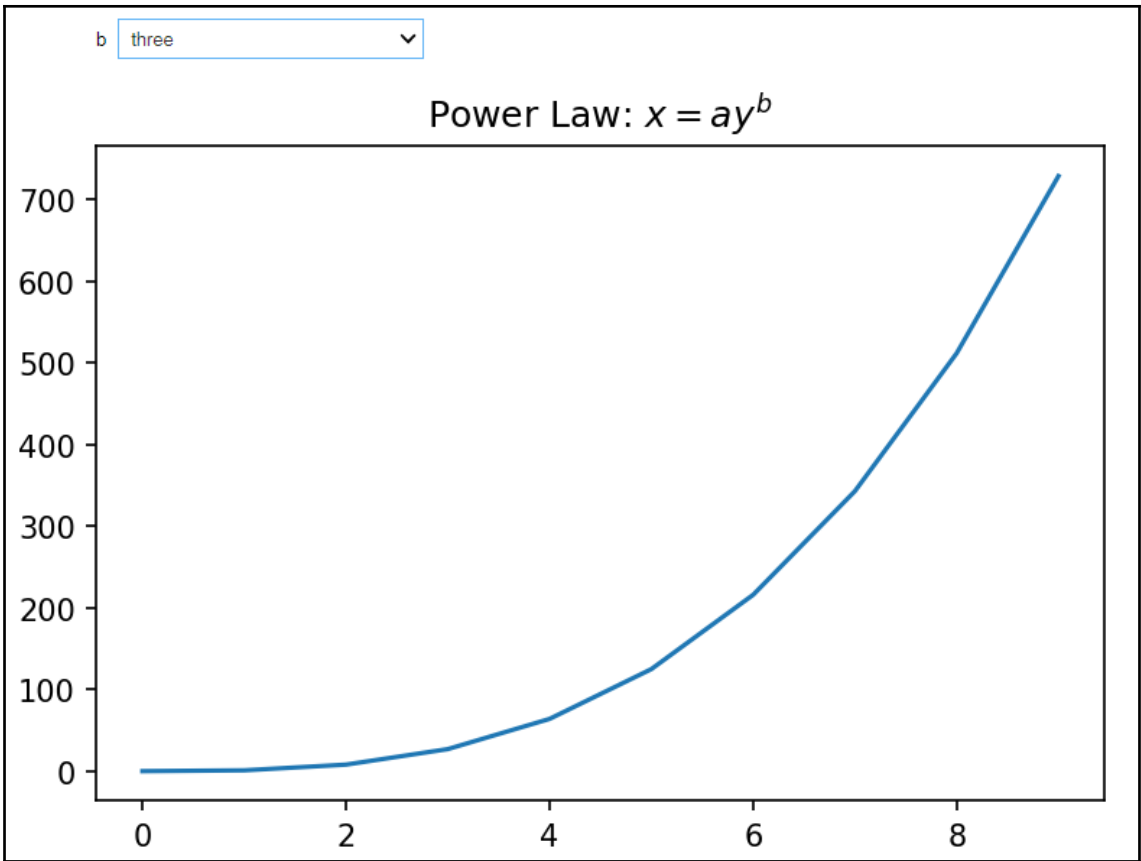


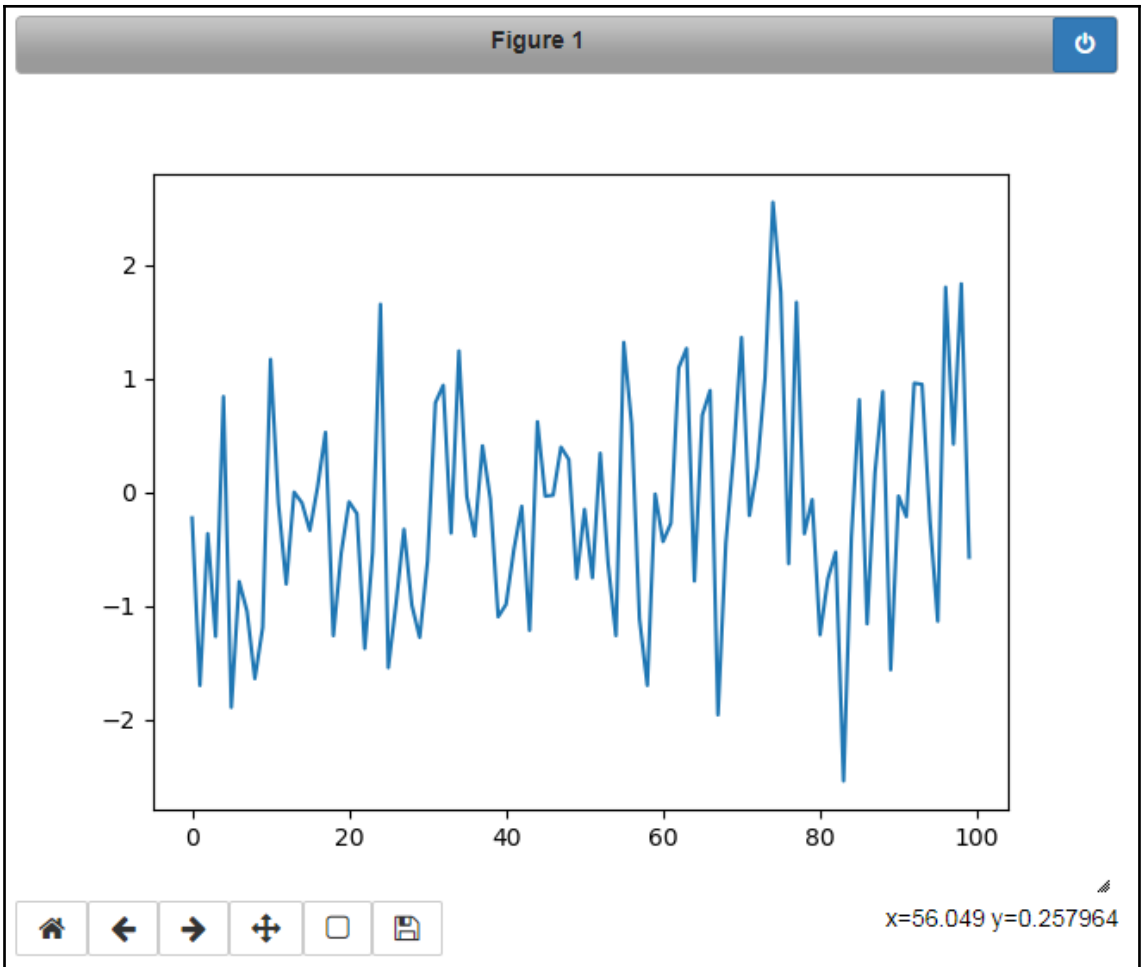


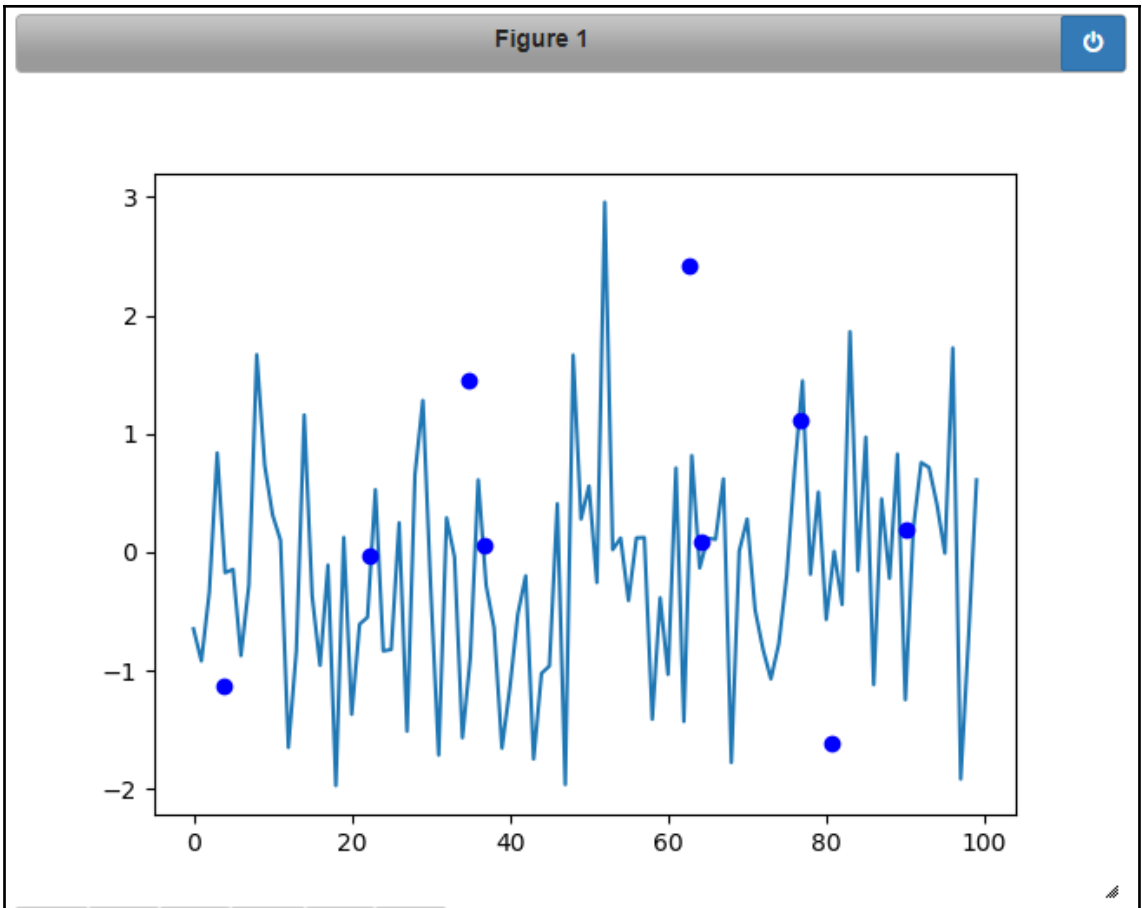












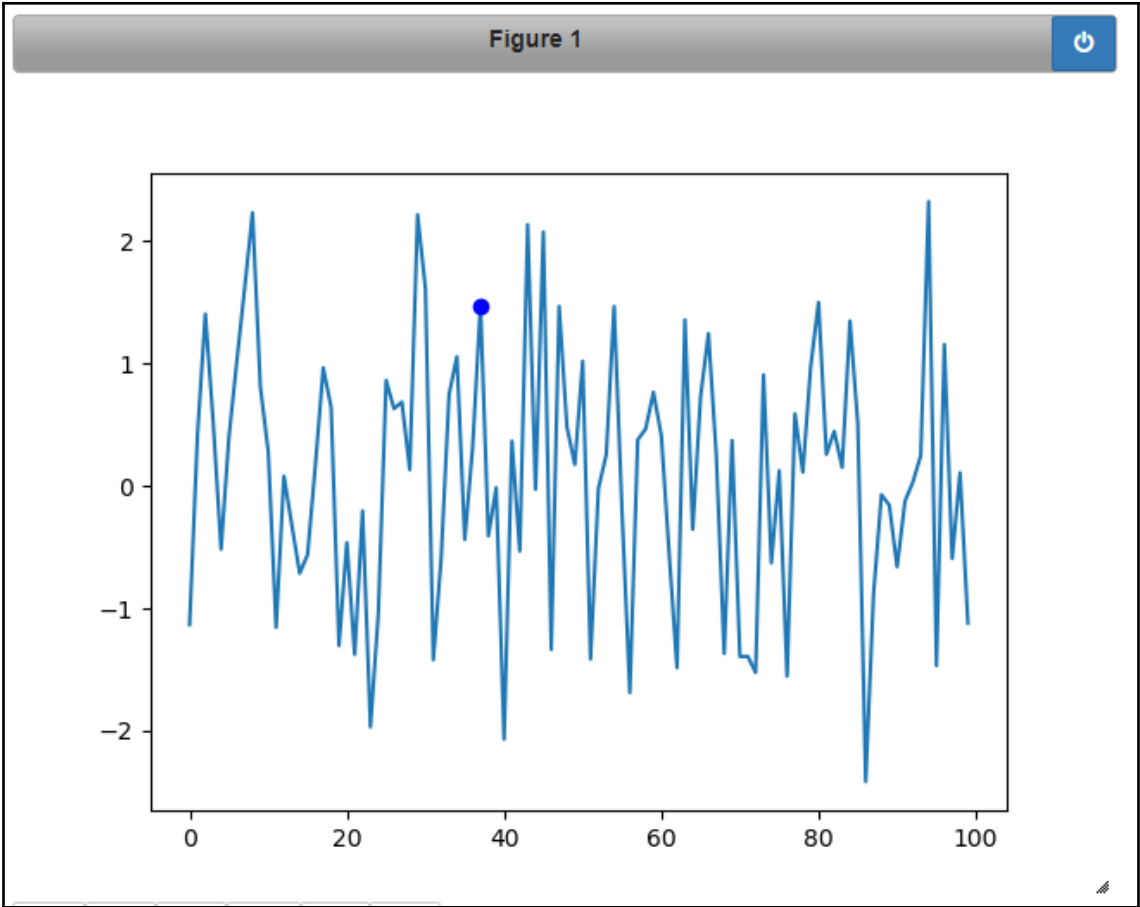


Figure 1

