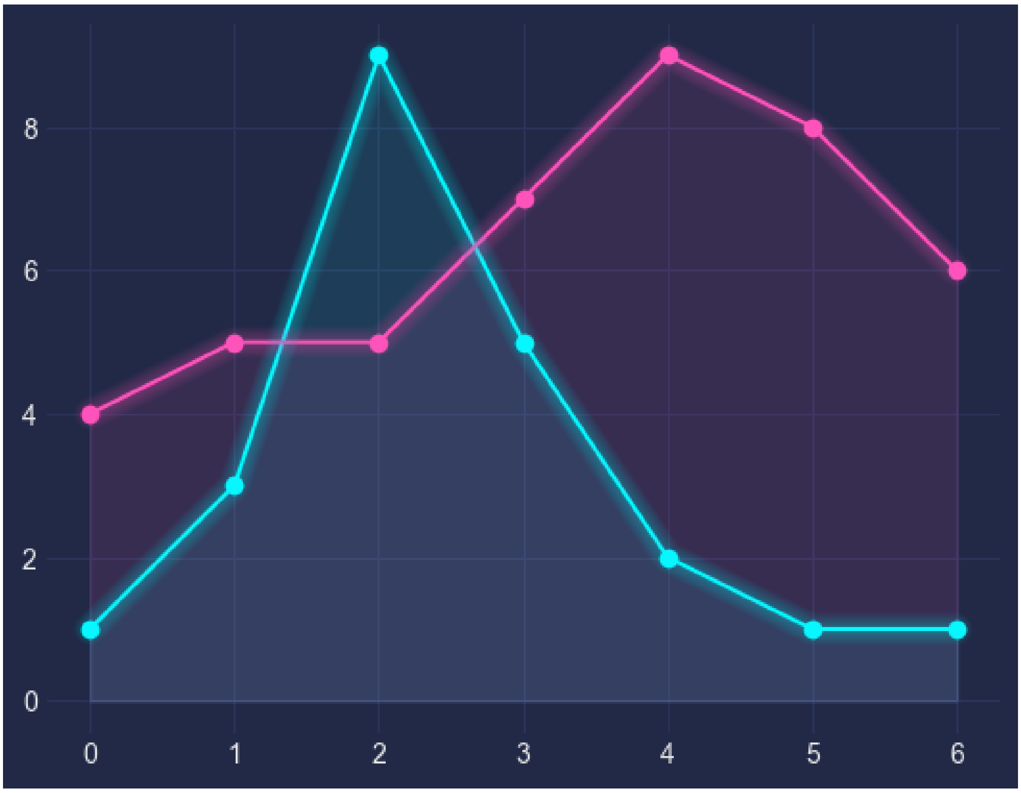
mplcyberpunk

build passing build passing python 3.11

A Python package on top of `matplotlib` to create ‘cyberpunk’ style plots with 3 additional lines of code.



Installation

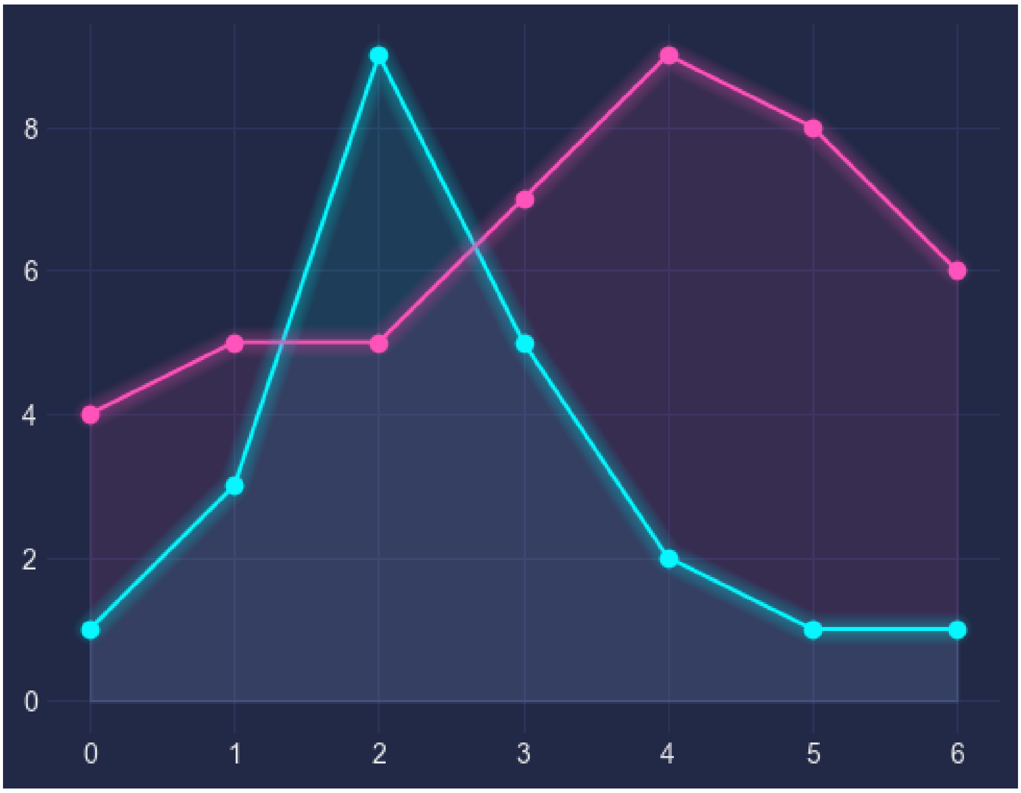
```
pip install mplcyberpunk
```

Usage

After importing the package, the *cyberpunk* stylesheet (dark background etc.) is available via `plt.style.use`. The line glow and ‘underglow’ effects are added via calling `add_glow_effects`:

```
    import matplotlib.pyplot as plt
    import mplcyberpunk

    plt.style.use("cyberpunk")

    plt.plot([1, 3, 9, 5, 2, 1, 1], marker='o')
    plt.plot([4, 5, 5, 7, 9, 8, 6], marker='o')

    mplcyberpunk.add_glow_effects()

    plt.show()
```

Result:



This effect is currently only implemented for lines.

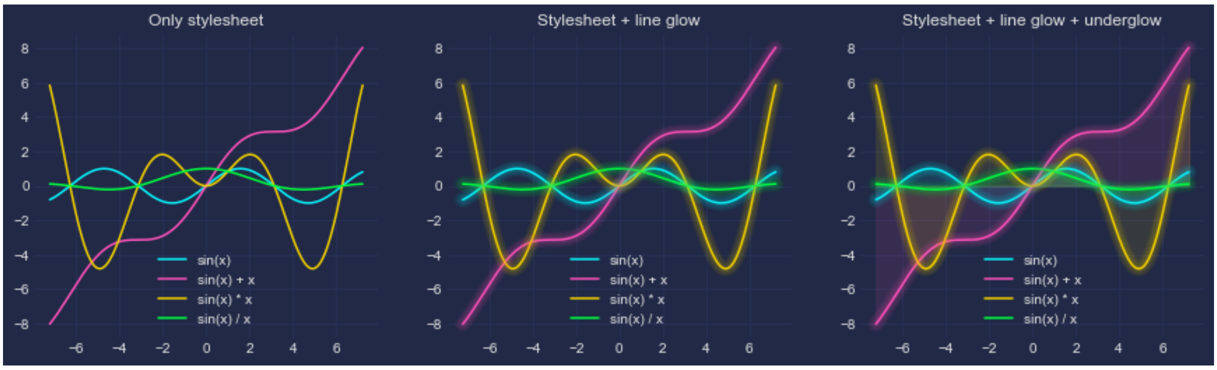
The individual steps are described here in more detail.

Add effects individually Instead of `add_glow_effects`, you can add the line glow and underglow effects separately:

```
mplcyberpunk.make_lines_glow()
mplcyberpunk.add_underglow()
```

You can also add the effect to a specific axis object explicitly:

```
fig, ax = plt.subplots()
...
mplcyberpunk.make_lines_glow(ax)
```



To activate the glow effect only for specific lines, pass a Line2D object or a list of Line2Ds to `make_lines_glow`.

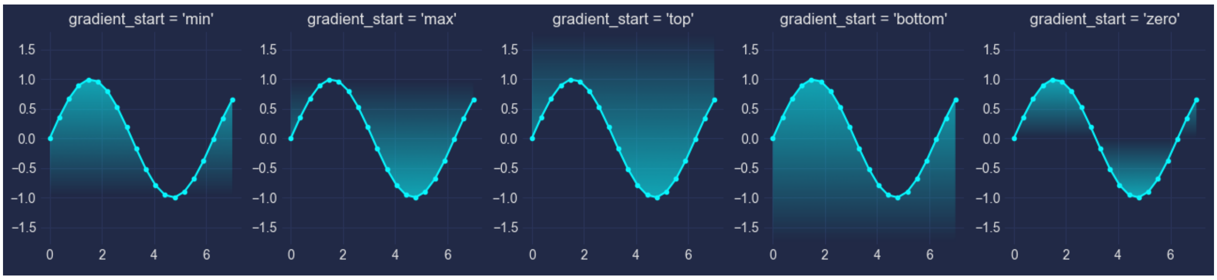
Gradient glow Gradient underglow effect can be added with

```
mplcyberpunk.add_glow_effects(gradient_fill=True)
```

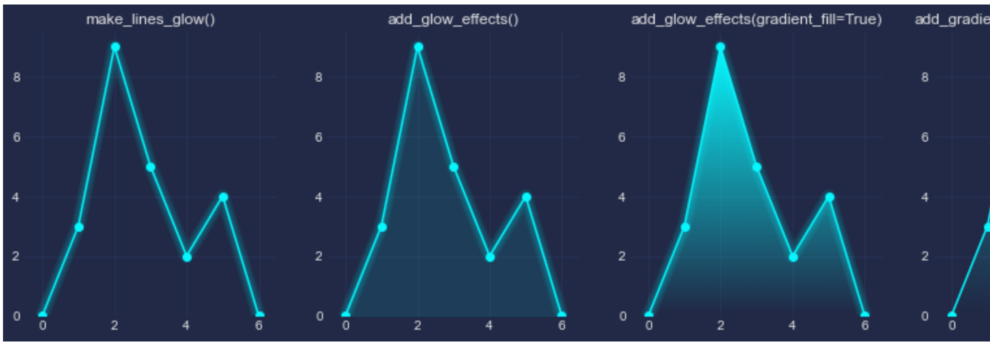
or independently of line glow with

```
mplcyberpunk.add_gradient_fill(alpha_gradientglow=0.5)
```

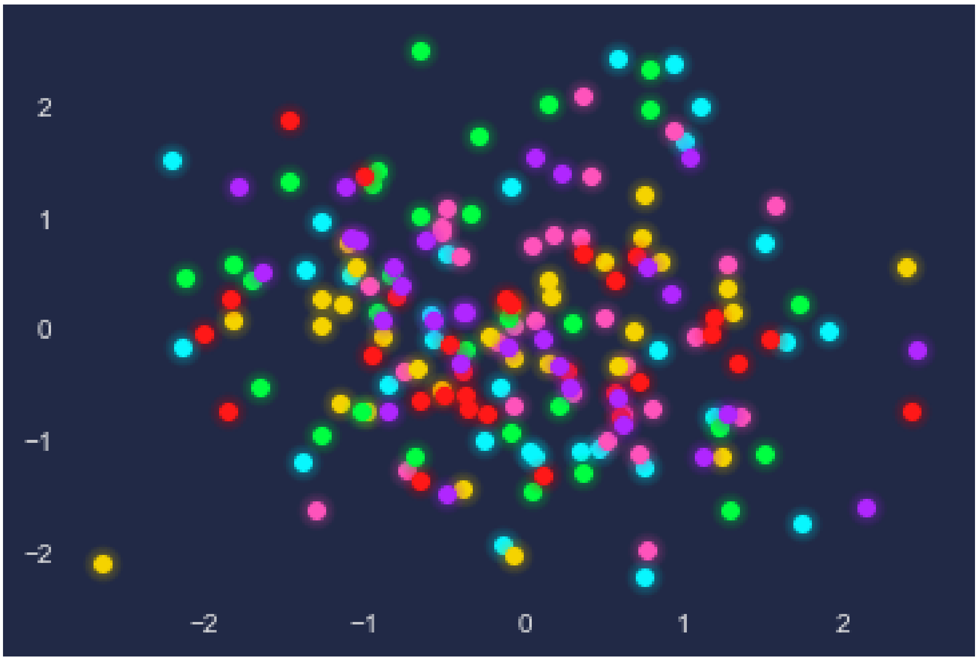
`add_gradient_fill` takes a `gradient_start` argument for different gradient starting values:



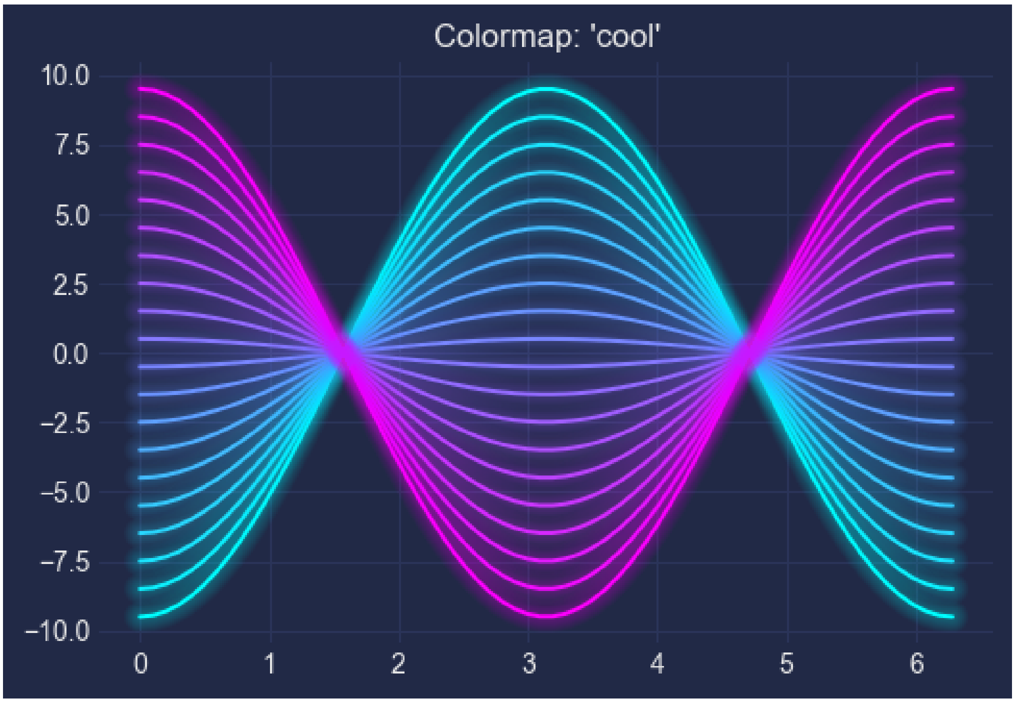
Different glow configurations:



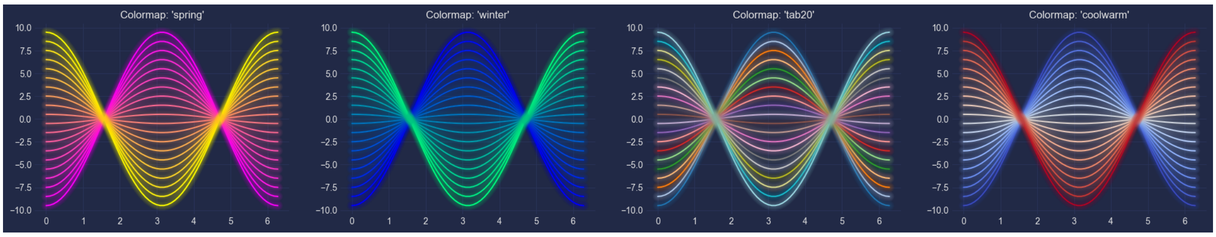
Scatter plots Glow effect can be added to scatter plots via `mplcyberpunk.make_scatter_glow()`:



Colormap The default colormap is `cool`:

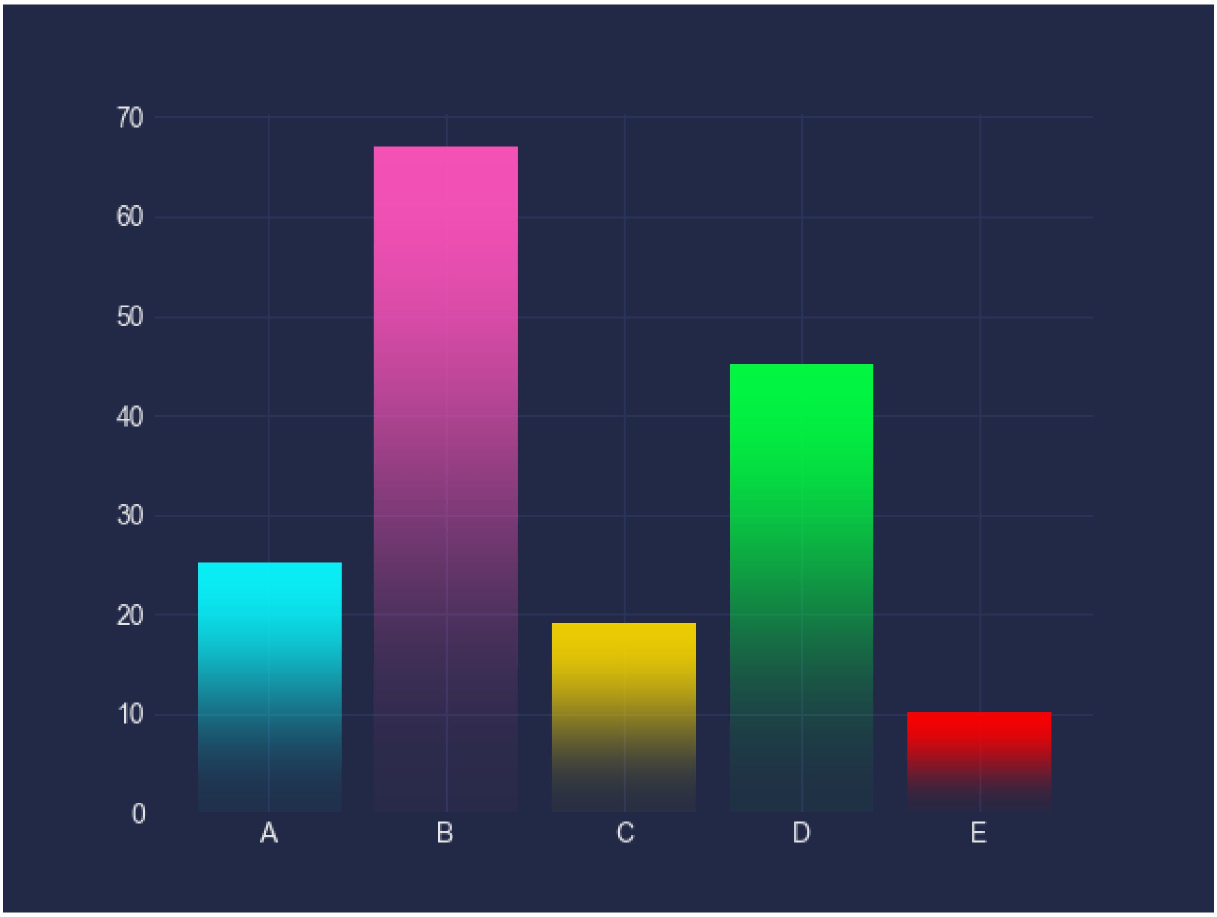


Others:

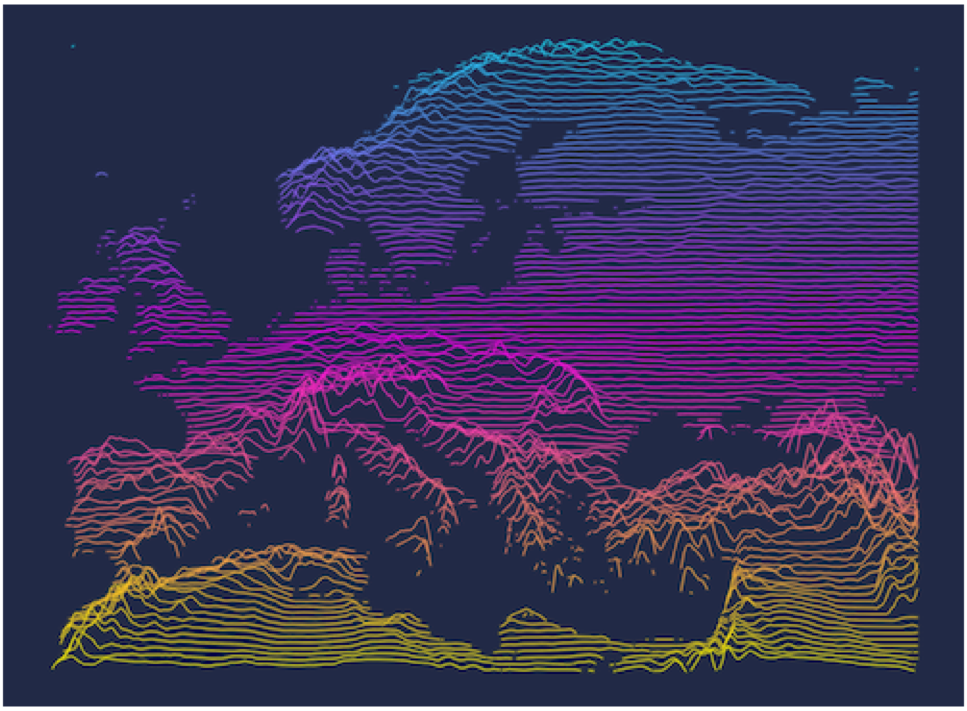


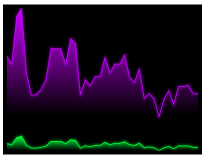
Bar charts

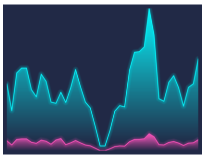
```python
import matplotlib.pyplot as plt
import mplcyberpunk

plt.style.use('cyberpunk')

categories = ['A', 'B', 'C', 'D', 'E']
values = [25, 67, 19, 45, 10]
colors = ["C0", "C1", "C2", "C3", "C4"]

bars = plt.bar(categories, values, color=colors, zorder=2)

mplcyberpunk.add_bar_gradient(bars=bars)

plt.show()
```


70
60
50
40
30
20
10
0
A
B
C
D
E

Gallery







Some images can be bought as posters here.

Requirements

Depends only on `matplotlib`.