

Matplotlib Tutorial (Part 4): Stack Plots

```
In [1]: from matplotlib import pyplot as plt

plt.style.use("fivethirtyeight")

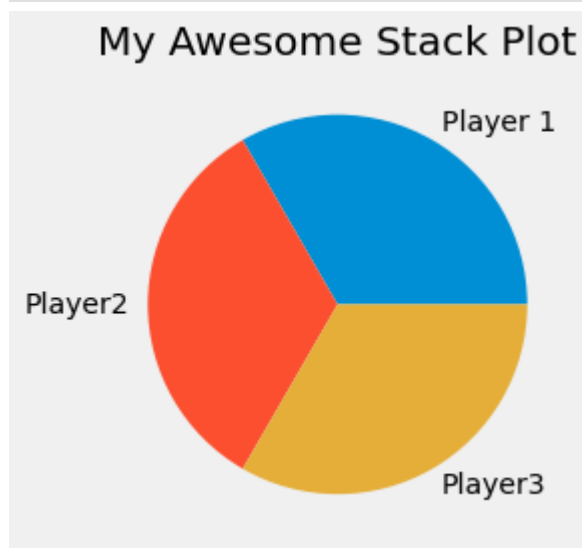
minutes = [1, 2, 3, 4, 5, 6, 7, 8, 9]

player1 = [1, 2, 3, 3, 4, 4, 4, 4, 5]
player2 = [1, 1, 1, 1, 2, 2, 2, 3, 4]
player3 = [1, 1, 1, 2, 2, 2, 3, 3, 3]

plt.pie([1, 1, 1], labels=["Player 1", "Player2", "Player3"])

plt.title("My Awesome Stack Plot")
plt.tight_layout()
plt.show()

# Colors:
# Blue = #008fd5
# Red = #fc4f30
# Yellow = #e5ae37
# Green = #6d904f
```



Use stack plot

```
In [8]: from matplotlib import pyplot as plt

plt.style.use("fivethirtyeight")

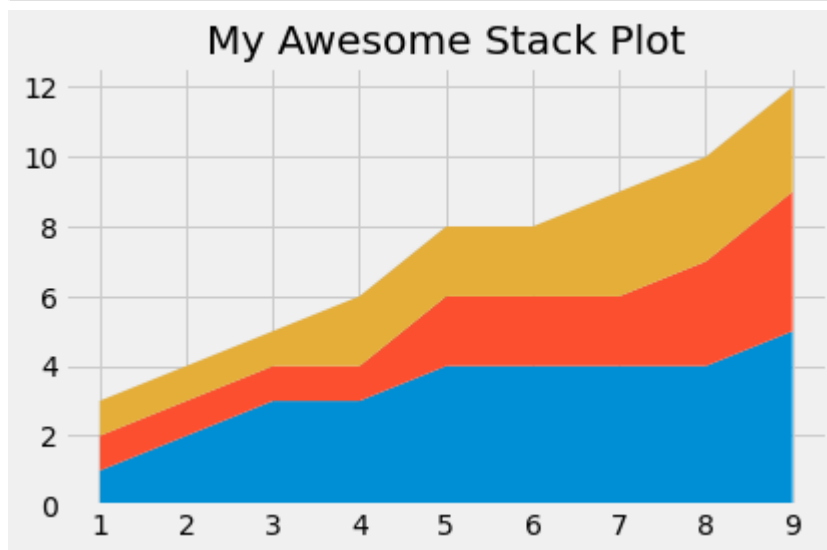
minutes = [1, 2, 3, 4, 5, 6, 7, 8, 9]

player1 = [1, 2, 3, 3, 4, 4, 4, 4, 5]
player2 = [1, 1, 1, 1, 2, 2, 2, 3, 4]
player3 = [1, 1, 1, 2, 2, 2, 3, 3, 3]

labels = ['player1', 'player2', 'player3']

plt.stackplot(minutes, player1, player2, player3, labels=labels)

plt.title("My Awesome Stack Plot")
plt.tight_layout()
plt.show()
```



Add labels and legends

```
In [9]: from matplotlib import pyplot as plt

plt.style.use("fivethirtyeight")

minutes = [1, 2, 3, 4, 5, 6, 7, 8, 9]

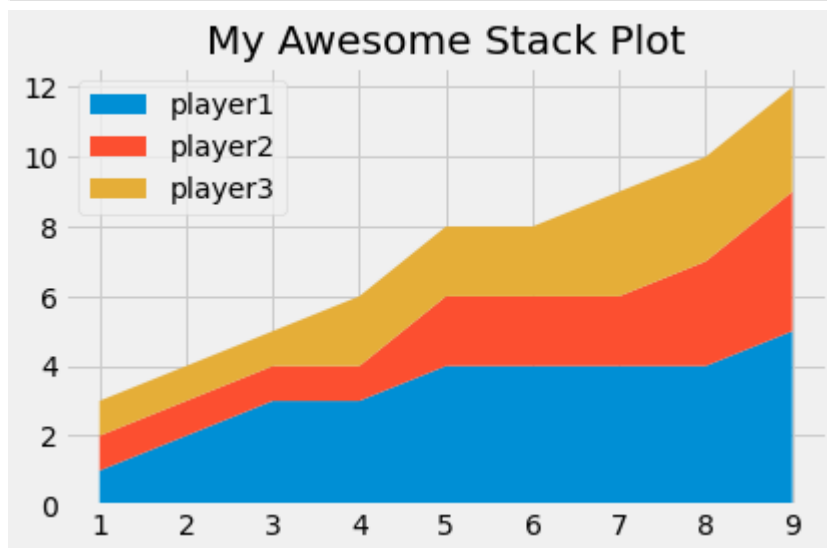
player1 = [1, 2, 3, 3, 4, 4, 4, 4, 5]
player2 = [1, 1, 1, 1, 2, 2, 2, 3, 4]
player3 = [1, 1, 1, 2, 2, 2, 3, 3, 3]

labels = ['player1', 'player2', 'player3']

plt.stackplot(minutes, player1, player2, player3, labels=labels)

plt.legend(loc='upper left')

plt.title("My Awesome Stack Plot")
plt.tight_layout()
plt.show()
```



Final code

```

In [10]: from matplotlib import pyplot as plt

plt.style.use("fivethirtyeight")

minutes = [1, 2, 3, 4, 5, 6, 7, 8, 9]

player1 = [1, 2, 3, 3, 4, 4, 4, 4, 5]
player2 = [1, 1, 1, 1, 2, 2, 2, 3, 4]
player3 = [1, 1, 1, 2, 2, 2, 3, 3, 3]

labels = ['player1', 'player2', 'player3']
colors = ['#6d904f', '#fc4f30', '#008fd5']

plt.stackplot(minutes, player1, player2, player3, labels=labels, colors=colors)

plt.legend(loc=(0.07, 0.05))

plt.title("My Awesome Stack Plot")
plt.tight_layout()
plt.show()

# Colors:
# Blue = #008fd5
# Red = #fc4f30
# Yellow = #e5ae37
# Green = #6d904f

```

