Quarto Document

Boi

## 1 Colors

* Red
* Green
* Blue

## 2 Shapes

* Square
* Circle
* Triangle

## 3 Textures

* Smooth
* Bumpy
* Fuzzy

## 4 Overview

Knuth says always be literate [@knuth1984].

1 + 1

2

## 5 Overview1

See [Figure 1](#fig-simple) in [Section 6](#sec-plot) for a demonstration of a simple plot.

See [Equation 1](#eq-stddev) to better understand standard deviation.

## 6 Plot

import matplotlib.pyplot as plt  
plt.plot([1,23,2,4])  
plt.show()

|  |
| --- |
| Figure 1: Simple Plot |

## 7 Equation

## 8 Placing Colorbars

Colorbars indicate the quantitative extent of image data. Placing in a figure is non-trivial because room needs to be made for them. The simplest case is just attaching a colorbar to each axes:[[1]](#footnote-32).

import matplotlib.pyplot as plt  
import numpy as np  
  
fig, axs = plt.subplots(2, 2)  
fig.set\_size\_inches(20, 8)  
cmaps = ['RdBu\_r', 'viridis']  
for col in range(2):  
 for row in range(2):  
 ax = axs[row, col]  
 pcm = ax.pcolormesh(  
 np.random.random((20, 20)) \* (col + 1),  
 cmap=cmaps[col]  
 )  
 fig.colorbar(pcm, ax=ax)  
plt.show()



## 9 References

1. See the [Matplotlib Gallery](https://matplotlib.org/stable/gallery/subplots_axes_and_figures/colorbar_placement.html) to explore colorbars further [↑](#footnote-ref-32)