Quarto Document

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1 Test

1.1 Placing Colorbars

Colorbars like in 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].

```
import matplotlib.pyplot as plt
import numpy as np

fig, axs = plt.subplots(2, 2)
```

[1] See the Matplotlib Gallery to explore colorbars further

```
fig.set_size_inches(20, 10)
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()
```

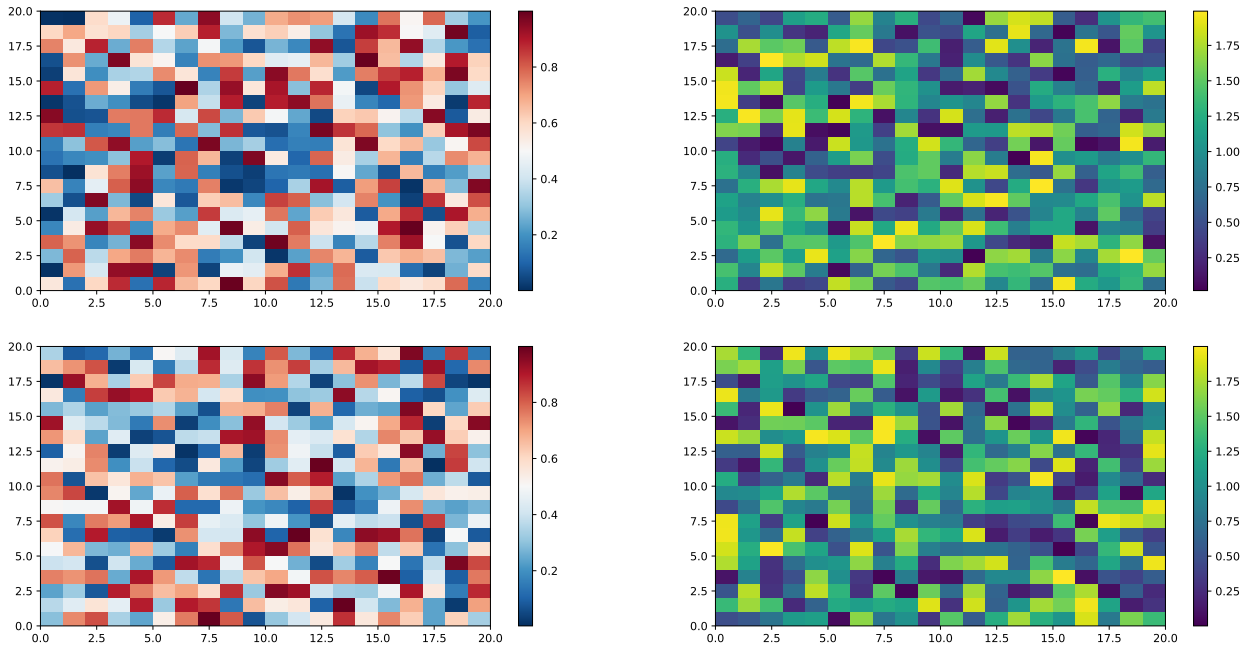


Figure 1: test

> **! Watch out!**
>
> This can be dangerous

> **Look this**
>
> This is also important

Overview

See @fig-simple in @sec-plot for a demonstration of a simple plot.

See @eq-stddev to better understand standard deviation.

1.2 Plot

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

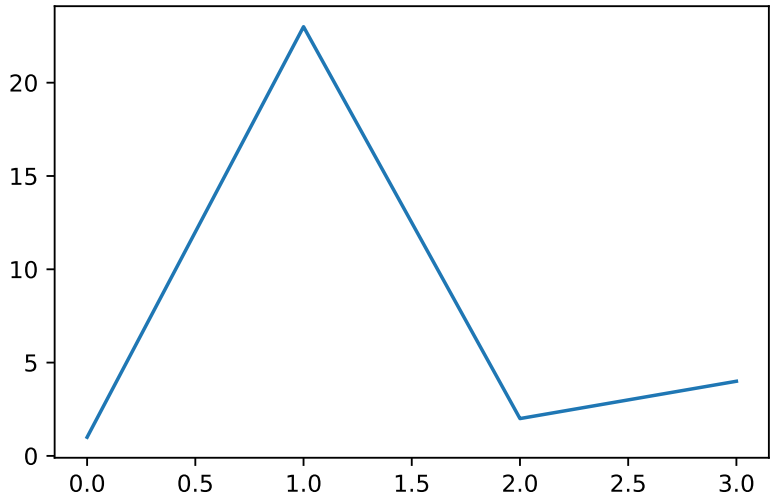


Figure 2: Simple Plot

1.3 Equation

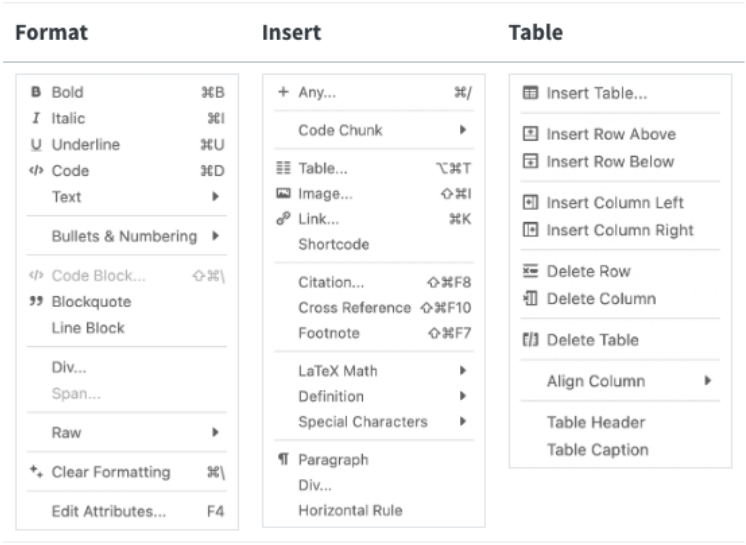
1.4 `Colors`

1. Red
2. Green
3. Blue

1.5 Shapes

- Square
  - This should be the `next` level editor
- Circle
- Triangle

1.6 Textures



- Smooth
- Bumpy
- Fuzzy

2 Header 1

2.1 Header 2

This table need to be look after

Test	With	Book

Test	With	Book

2.1.1 Header 3

2.1.1.1 Header 4

> **Note**
>
> Note that there are five types of callouts, including: `note`, `tip`, `warning`, `caution`, and `important`.

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> **Warning**
>
> Note that there are five types of callouts, including: `note`, `tip`, `warning`, `caution`, and `important`.

This is a **bold**, *italic*, and ***both***

This is a complete paragraph in a text. This can be used to check how the spacing in a line. This is a new line

Einstein's theory of special relatively that expresses the equivalence of mass and energy:

$E = mc^2$

This is a new line with an empty line before
- Test
- another test
- Can we do this
- not sure
- let's try

    [!NOTE] Test Testing Callout

[!WARNING] Test Warning Contents

Test	Column	Name
This	Is	Table
As	A	Sample