

Main-Title

Sub-Title

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A tagline for the report.

Institution1 Institution2

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Contents

List of Figures

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List of Codes

1 Markdown

1.1 General

Some markdown text.

A list:

- something
- something else

A numbered list

- 1. something
- 2. something else

This is a long section of text, which we only want in a document (not a presentation) some text some more text

1.2 References and Citations

References to ??, ??, ?? and ??.

Referencing multiple items: ??????.

A latex citation. [?]

A html citation. [?]

1.3 Todo notes

an inline todo

Some text.

a todo in the margins

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2 Text Output

This is some printed text, with a nicely formatted output.

2 Text Output 4

3 Images and Figures



Figure 3.1: A nice picture.

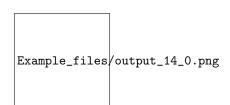


Figure 3.2: Horizontally aligned images.

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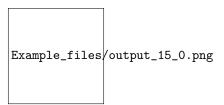


Figure 3.3: Vertically aligned images.

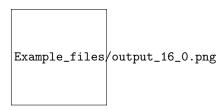


Figure 3.4: Images aligned in a grid.

3.1 Displaying a plot with its code

Code 3.1: The plotting code for a matplotlib figure (??).

3 Images and Figures 6

Example_files/output_20_0.pdf

Figure 3.5: A matplotlib figure, with the caption set in the markdowncell above the figure.

3 Images and Figures 7

4 Tables (with pandas)

Code 4.1: The plotting code for a pandas Dataframe table (??).

```
df = pd.DataFrame(np.random.rand(3,4),columns=['a','b','c','d'])
df.a = ['$\delta$','x','y']
df.b = ['l','m','n']
df.set_index(['a','b'])
f.round(3)
```

Table 4.1: An example of a table created with pandas dataframe.

	a	b	c	d
0	δ	1	0.583	0.279
1	X	m	0.914	0.021
2	y	n	0.333	0.116

5 Equations (with ipython or sympy)

$$a = b + c \tag{5.1}$$

Code 5.1: The plotting code for a sympy equation (??).

```
f = sym.Function('f')
y,n = sym.symbols(r'y \alpha')
f = y(n)-2*y(n-1/sym.pi)-5*y(n-2)
sym.rsolve(f,y(n),[1,4])
```

$$\left(\sqrt{5}i\right)^{\alpha}\left(\frac{1}{2} - \frac{2i}{5}\sqrt{5}\right) + \left(-\sqrt{5}i\right)^{\alpha}\left(\frac{1}{2} + \frac{2i}{5}\sqrt{5}\right) \tag{5.2}$$

6 Embed interactive HTML (like ipywidgets) Interactive HTML was created using ipyvolume and will render below in .html type outputs: