Report Title

Project name

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Abstract Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis sagittis posuere ligula sit ametlacinia. Duis dignissim pellentesque magna, rhoncus congue sapien finibus mollis. Ut eu semlaoreet, vehicula ipsum in, convallis erat. Vestibulum magna sem, blandit pulvinar augue sit amet,auctor malesuada sapien. Nullam faucibus leo eget eros hendrerit, non laoreet ipsum lacinia.Curabitur cursus diam elit, non tempus ante volutpat a. Quisque hendrerit blandit purus nonfringilla. Integer sit amet elit viverra ante dapibus semper. Vestibulum viverra rutrum enim, atluctus enim posuere eu. Orci varius natoque penatibus et magnis dis parturient montes, nasceturridiculus mus.

Keywords *Quarto, Typst, Academic Report.*

1 Information

This is the latest version of my academic report quarto / typst template. It is heavily based on the standard template with some minor cosmetic changes. Aligning with my personal needs, this report style is geared towards applied mathematics and data science and thus emphasizes mathematics, referencing, clear figures and code legibility.

2 Formatting

Taking inspiration from the AMS Typst template, level one headings are bold, capitalized and on their own line. All other heading levels are in line and it is generally recommended not to delve above level 2 unless absolutely necessary.

The documents standard font is *libertinus serif*. If a more traditional LaTeX style is preferred you can set the **font** property to *modern computer serif*.

2.1 Lists.

Ordered lists follow directly from standard Markdown syntax:

1. Item 1
    a. Item 1.1
    b. Item 1.2
2. Item 2
    - Item 2.1

Similarly for unordered lists:

- Item 1
  - Item 1.1
  - Item 1.2
  - Item 1.3
- Item 2
  1. Item 2.1
  2. Item 2.2

2.2 Mathematics. We can write inline mathematics `f(x)=7x^2-12` or math blocks. For example, for random variable X defined on support $\mathcal{X}$ the **expectation** of $f(X)$ is given by

$$\begin{aligned}\mathbb{E}[f(X)] &= \int_{\omega \in \Omega} f(X(\omega)) d\mathbb{P}(\omega) \\ &= \int_{X} f(x) \cdot g(x) dx,\end{aligned} \tag{1}$$

where $g(x)$ is the *probability density function.*

We can reference equations by including tags in the equation chunk, for example see Equation 1.

2.3 Code. Included just under the YAML is a hidden code chunk where I prefer to import packages. Inline code can be written `a = [1,2,3,4]` as well as code chunks:

```
a = np.linspace(0,10,100)
b = a**2
print(b[35])
```

```
12.498724619936741
```

Included in the YAML are some universal code chunk options where we specify my preferred default plot dimensions:

```
plt.plot(a,b)
plt.xlabel('Independent Variable (a)')
plt.ylabel('Dependent Variable (b)')
plt.title('Example Plot')
plt.show()
```

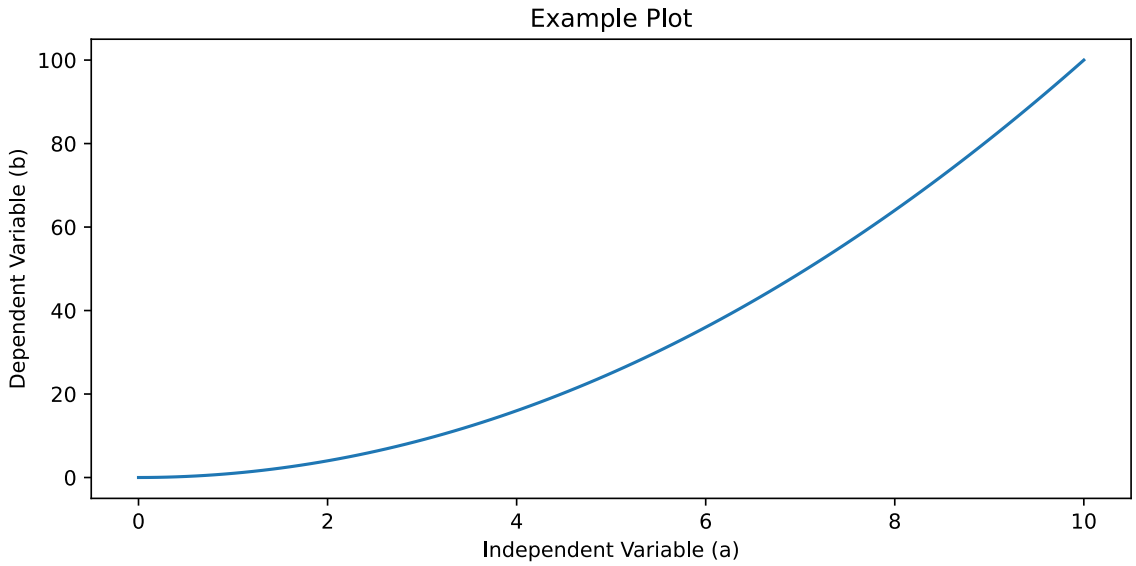

Figure 1: An example figure.

We can also reference generated figures, for example see Figure 1.