

Quarto introduction

Basic features of Quarto and CUNEF template

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1 Quarto introduction

1.1 Quarto

Quarto is a document generation tool that allows to create documents in different formats (pdf, html, docx, etc.) using markdown and R code.



In CUNEF University - Machine Learning subjects we are going to use quarto to generate presentations and material for our students.

2 Slides basics

2.1 Content slide

This is an slide with content and title

This is a slide with only content and without title

3 Text basics

3.1 Spaces check

Some text here. Some text in same line. Some text in next line.

Some text separated.

Some text more separated.

3.2 Text check

Some text.

Some bold text.

Some italic text.

other italic

`tidel text`

`triple tidal text`

3.3 Itemization

- Some bullet
- Other bullet
 - Sub bullet
 - Sub bullet 2
 - * Subsubbullet
- Big bullet

3.4 Enumerations

Overview

Details

Conclusion

1. enumeration
2. other enumeration
 1. sub enum
 2. other sub enum
 1. sub sub enum
3. big enum

3.5 Incremental itemization

- Some bullet
- Other bullet
 - Sub bullet

3.6 Columns

Big column here with 60% of the window

Small column here with 40% of the window

4 Images

4.1 Links and images

Some link: [google](#)

Some image:



Figure 1: The caption

Some web image:



4.2 Columns with image



Figure 2: Image 1



Figure 3: Image 2

4.3 Tabs

4.3.1 Tab A

This is tab A

4.3.2 Tab B

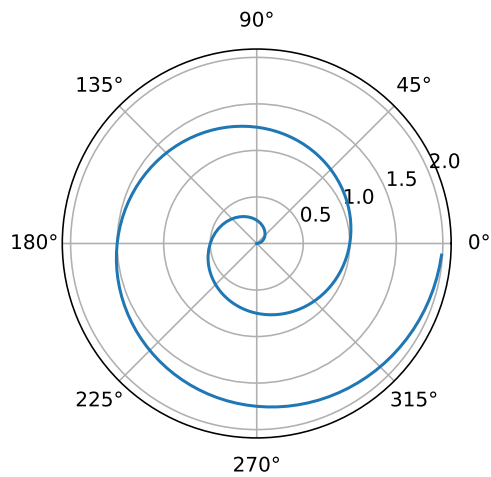
This is tab B

5 Code

5.1 Python Code

```
# This is a Python code block
import numpy as np
import matplotlib.pyplot as plt

r = np.arange(0, 2, 0.01)
theta = 2 * np.pi * r
fig, ax = plt.subplots(
    subplot_kw = {'projection': 'polar'}
)
ax.plot(theta, r)
ax.set_rticks([0.5, 1, 1.5, 2])
ax.grid(True)
plt.show()
```



5.2 R Code

```
# This is a R code block
#| label: fig-airquality
#| fig-cap: "Temperature and ozone level."
#| warning: false
```

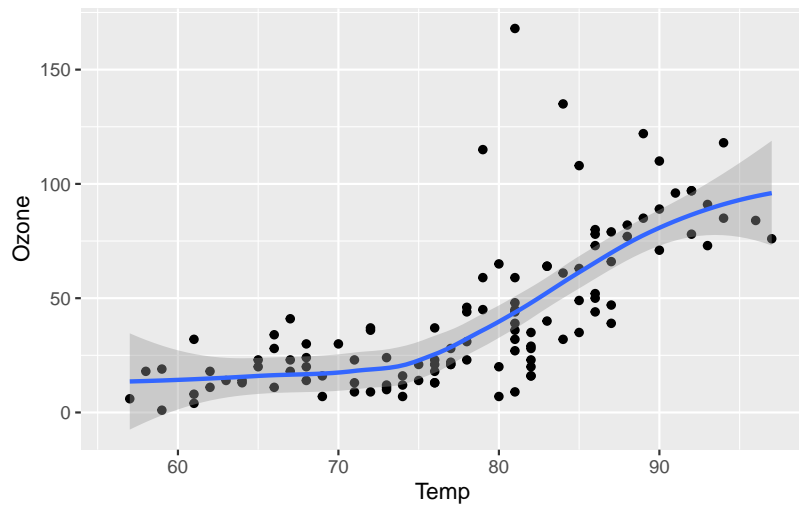
```
library(ggplot2)
```

```
ggplot(airquality, aes(Temp, Ozone)) +
  geom_point() +
  geom_smooth(method = "loess")
```

```
`geom_smooth()` using formula = 'y ~ x'
```

```
Warning: Removed 37 rows containing non-finite outside the scale range
(`stat_smooth()`).
```

```
Warning: Removed 37 rows containing missing values or values outside the scale range
(`geom_point()`).
```



5.3 Highlighted code

```
1 a = 1
2 b = 2
3 c = a + b
4 d = a - b
5 e = c - d
6 print(e)
```

4

5.4 Code configuration

Code solution without code:

```
a = 1
b = 2
c = a + b
print(c)
```

3

Code without solution:

```
a = 1
b = 2
c = a + b
print(c)
```

6 Complex styles

6.1 Small slide

The text and images in this slide are smaller than usual

6.2 Scroll slide

The text and images in this slide are scrollable

- Point 1
- Point 2
- Point 3
- Point 4
- Point 5
- Point 6
- Point 7
- Point 8
- Point 9
- Point 10
- Point 11
- Point 12
- Point 13
- Point 14
- Point 15

6.3 Slide with notes

This slide has notes and footnotes ¹

¹This is a footnote

This is a note

7 Extra content

7.1 Tables

Tables are made with markdown (do not know why to set it in external, sorry):

Right	Left	Default	Center
12	12	12	12
123	123	123	123
1	1	1	1

7.2 Maths

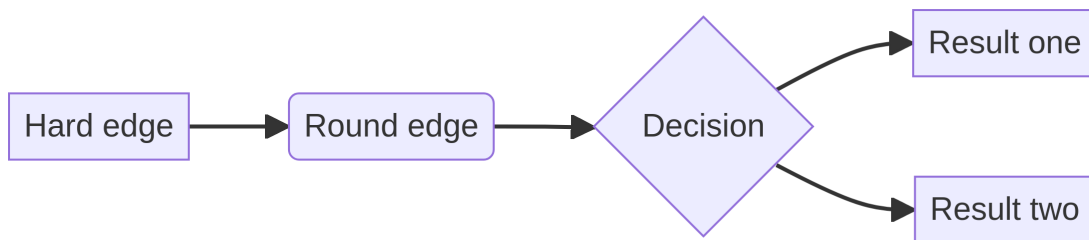
Math is done with latex:

Inline math $\frac{1}{\sqrt{2}}$ and block math:

$$E = mc^2$$


7.3 Diagrams


Diagrams are made by mermaid:





7.4 HTML raw content


7.5 Callouts

 Note
This is a note

 Tip
This is a tip

 Warning
This is a warning

 Caution
This is a caution

 Important
This is an important

8 Style

Title slide style

8.1 Non stilish slide

Style of a slide without specific style

8.2 Stlish slide

The `css` style could also be used in title slides `#Title` `{.inh_novel}` to be applied the tag `novel` to every slide below.