

In this notebook, Data Science Tools and Ecosystem are summarized.

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Objectives:

- List popular languages for Data Science
- Identify commonly used libraries in Data Science
- Create and format Markdown cells in a Jupyter notebook
- Demonstrate basic arithmetic expressions in Python
- Understand the role of tools like Jupyter, RStudio, and VS Code

Some of the popular languages that Data Scientists use include:

1. Python
2. R
3. Java
4. C
5. C++
6. Scala
7. And many more!

Some of the commonly used libraries used by Data Scientists include:

1. Pandas
2. Matplotlib
3. ggplot
4. Scikit Learn
5. Seaborn

Data Science Tools

Jupyter Notebook

R Studio

VS Code

Below are a few examples of evaluating arithmetic expressions in Python:

- $3 + 5$ --> Addition of two numbers
- $10 - 4$ --> Subtraction of two numbers
- $6 * 7$ --> Multiplication
- $16 / 2$ --> Division
- $2 ** 3$ --> Exponentiation (2 raised to the power of 3)

- $10 \% 3$ --> Modulus (remainder of the division)

```
In [5]: #This a simple arithmetic expression to mutiply then add integers  
  
(3*4)+5
```

Out[5]: 17

```
In [6]: #This will convert 200 minutes to hours by diving by 60  
  
min_in_hours = 200/60  
min_in_hours
```

Out[6]: 3.3333333333333335