

Introduction to Python

Lecture 6: LaTeX

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- LaTeX is a document preparation system.
- It is used to create documents with professional quality typesetting.
- LaTeX is the de facto standard for the communication and publication of scientific documents.
- LaTeX is available as free software.

- Mac users: <http://www.tug.org/mactex/>
- Windows users: <http://miktex.org/>
- VSCode Extension: <https://marketplace.visualstudio.com/items?itemName=James-Yu.latex-workshop>
- Overleaf: <https://www.overleaf.com/>

Basic Structure

```
1 \documentclass{article}
2 \begin{document}
3     Hello World!
4 \end{document}
```

Mathematic Equations

```
1 \documentclass{article}
2 \usepackage{amsmath}
3 \begin{document}
4     \begin{equation}
5         \label{eq:1}
6         \frac{1}{n^2}
7     \end{equation}
8 \end{document}
```

```
1 \documentclass{article}
2 \usepackage{graphicx}
3 \begin{document}
4     \begin{figure}
5         \includegraphics[width=\linewidth]{image.png}
6         \caption{A boat.}
7         \label{fig:boat1}
8     \end{figure}
9 \end{document}
```