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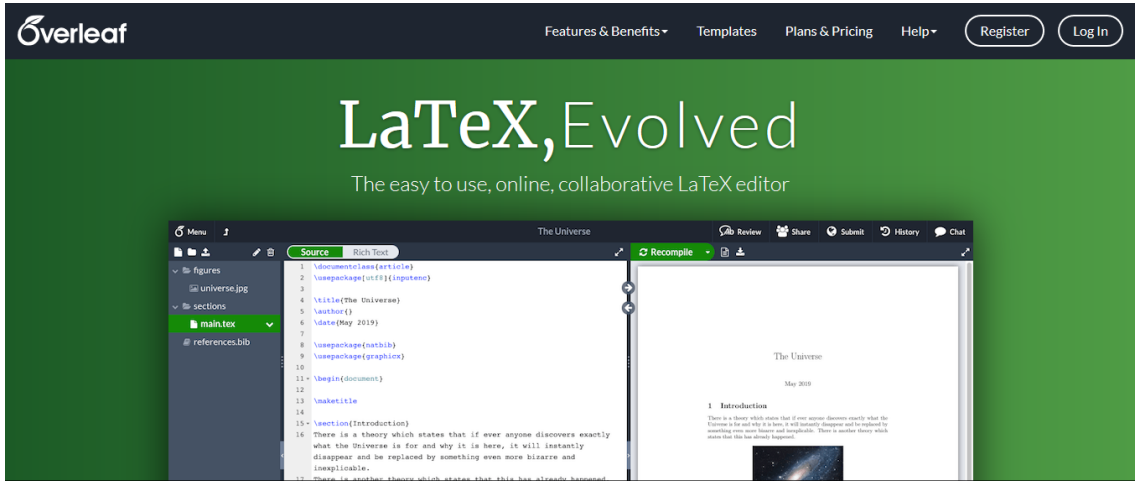

Introduction to LaTeX Using Overleaf

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Agenda

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1. **Introduction to LaTeX**
2. **Using Overleaf**
3. **Structure of a LaTeX Document**
4. **LaTeX Examples Using Overleaf**
   - 4.1. How to Make Sections and Subsections?
   - 4.2. How to Leave Comments?
   - 4.3. How to Make Tables?
   - 4.4. How to Include Figures?
   - 4.5. How to Make Lists?
   - 4.6. How to Write Mathematics?
5. **Citations**

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WHAT is LaTeX?!

LaTeX is a powerful document preparation system, well-suited for technical documents, in particular those that contain mathematical expressions, tables, figures and references.

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WHY LaTeX?!

- Price: Is freely available for all major computer platforms.
- Quality and Aesthetics: Can produce organized nicely formatted documents.
- Editing, Versioning and Outputs
- Takes care of **automatic numbering** of sections, equations, tables, figures, theorems and references.
- Focus on Content

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Word vs LaTeX

area	MS Word	LaTeX
speed small docs	WYSIWYG ***	WYSIWYM ****
speed big docs w graphics	***	***
ease of use	***	****
layout quality	***	***
scientific features	***	***
price + availability	***	***

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Get LaTeX?

https://www.latex-project.org/get/

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Overleaf? Why?

- The easy to use, **online**, **collaborative** LaTeX editor.

  https://www.overleaf.com/

- **Collaboration, Ease of Use, Document history, Work from anywhere**
- A lot of templates to start with:

  https://www.overleaf.com/latex/templates

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Tips and Tricks for Troubleshooting LaTeX

https://www.overleaf.com/learn/latex/Questions/Tips_and_Tricks_for_Troubleshooting_LaTeX

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Questions?

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