# A LATEX Workflow for MSDS

An easy way to quickly get something nice to turn in

David Josephs

### **Contents**

#### 1. Introduction to LATEX

Reasons to give up Word forever, bibtex, and demonstrations

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- Introduction to LATEX
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- 2. A Single-Source LATEXWorkflow Integrating code and analysis into LATEX

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- Introduction to LATEX
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- 2. A Single-Source LATEXWorkflow Integrating code and analysis into LATEX
- 3. Conclusions

# **LATEXPrimer**

# What is LATEX?

- Document Preparation System
  - Typesetting

Word is the worst

LATEXPrimer 3/11

- Word is the worst
  - Reproducibility

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  - Figures and tables

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  - Figures and tables
- Separate style and body

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- Control issues

IATEXPrimer 3/11

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- Control issues
  - Ligatures
  - Manipulate everything

Recommendations for installation:

TFXdistributions

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Mac: MacTEX

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  - Linux: TFXor TeXLive
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  - LyX and Overleaf

IATEXPrimer 4/11

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  - LyX and Overleaf
  - Mac: Texpad

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Creating a .tex file

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  - ▶ Preamble (document class + package loading)

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NT<sub>E</sub>XPrimer 5/11

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TEXPrimer 5/11

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NT<sub>E</sub>XPrimer 5/11

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- Bibliography
- Templates!

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# Reproducible Research Using LATEX

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# **Conclusions**

Conclusions 10/11

# **Closing Thoughts**

▶ Woo, Beamer!

Conclusions 11/11

### Backup slide 1

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