

COS 121 – Christoph Stallmann







Why bother?

- Helps you when you didn't work on a piece of code for a while.
- Helps colleagues and team members with your implementation.
- Future coders might need to extend your code.





Reason

- Why bother?
 - Third parties might use your code.
 - Used for internal and external quality checks.
 - Proof of contract that certain things were implemented.









Statistics

- Ohloh estimates it will cost \$8 billion to develop 324 million lines of code.
- Therefore to develop Debian, it will take Zuma's entire salary for:
 - 27 000 000 000 years
 - 27 billion years
 - 6 times longer than the earth exists

Statistics

- A productive programmer writes about 1000 lines of code per day.
- Therefore to develop Debian it will take a single programmer:
 - 324 000 days.
 - 1350 years (on an average workingweek).
 - This excludes documentation, planning, design and testing.

- Microsoft's MSDN Library (English) documentation has:
 - 3 154 289 topics
- With 3 pages per topic, 40 lines per page
 - 380 million lines of documentation
 - 8 times more documentation than code in Windows.

	Latex	
	 Document markup language. 	
	 Intermediate format, mostly used i academia. 	n
	 Similar to Microsoft Word. 	
•	Can be used to convert Doxygen output.	
	 <u>http://www.latex-project.org</u> 	
	Document are compiled into:	
	• PDF	
0		
	• PS $\square \square \square$	
30	Many more	

Christoph Stallmann - University of Pretoria

Latex - Installation

- In Ubuntu:
 - **Basic Latex:**
 - sudo apt-get install texlive
 - All packages:
 - sudo apt-get install texlive-full
 - Fonts needed by Doxygen:
 - sudo apt-get install texlive-fontsrecommended
 - Texmaker (GUI Latex Editor):
 - sudo apt-get install texmaker

