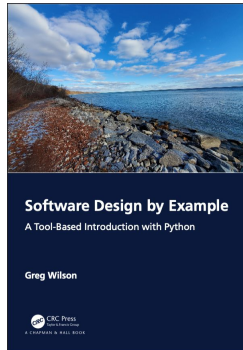
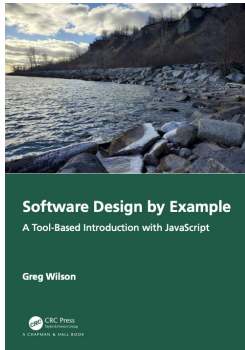
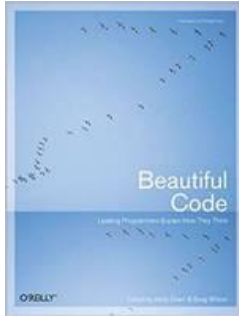


Software Design by Example in Roc

The Road So Far



Amnesty International
Books for Africa
Red Door Family Shelter
Rainbow Railroad

A Few Hard Truths



- Nobody makes money from technical books any more
- But authors can charge more as consultants
- It's a good way to give back to the community
- And it helps you see things through novice eyes once again

Design Decisions



1. Scale models of tools that programmers use day-to-day
2. Accessible to undergraduates
3. Teachable in an hour
4. Avoid language idiosyncrasies
5. Diagrams and exercises

The Python Version

- Objects as dictionaries
- Parsing regular expressions
- Executing regular expressions
- Hash-based file archiver
- A unit testing framework
- HTML template expander
- Page layout
- Object persistence
- A build manager
- FTP
- An HTTP server
- A text editor...
- ...with undo/redo
- A debugger

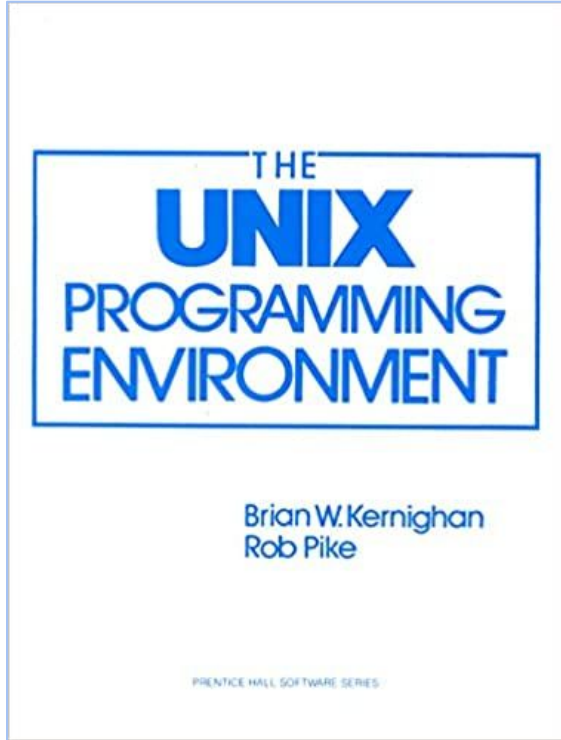
Publication

- Taylor & Francis will let us keep the full text online forever
 - They own print, PDF, and epub
- 15–25 sections
- I volunteer to wrangle the LaTeX
- And we'll need to teach it at least once



Taylor & Francis

A Few Suggestions



1. Read, then write
2. Don't try to be funny or surprised
3. Avoid banal advice
4. Don't pretend to explain the basics
5. Don't try to compete with the web
6. Drywall, then paint
7. Automate, but proof-read
8. *Tell a story*

It Will Be Fun



Thank You

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