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Summary

ExplainShell for Chrome

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Carnegie Mellon University

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Summar

Problem

- Random code snippets pose threat to unsuspecting web users
 - people have a risk of running malicious or insecure commands
- Often difficult to look through man pages for relevant documentation
- Sites like explainshell.com make this easier, but there's still a barrier
 - Have to copy, navigate to another page, paste

Problem

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Approach: Plan

- ① Context menu link (select text and go)
- 2 In-page link to jump to explainshell.com
- Insert in-page summary on hover
 - Contribute programmable API back to explainshell.com to facilitate in-page summary
- 4 Analytics site to show trending commands, referring sites, popular pages, etc.

for Chrome

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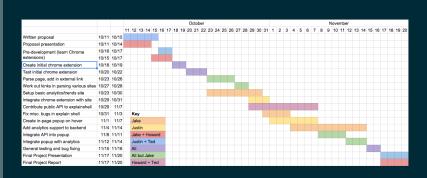
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Approach: Timeline



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Approach: Methodology

- Chrome Extension: HTML/CSS/JavaScript
- explainshell.com (API)
- Backend for analytics and trends: Node.js
- VC with Git (hosted on GitHub)
- github.com/justingallagher/explainshell-for-chrome

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Literature Review

- explainshell.com and man pages
 - very comprehensive
 - hard to find new things to learn
- bashoneliners.com
 - documents bash one-liners
 - sorts by popularity
 - limited by what is posted to site
- linuxcommand.org
 - beginner's tutorial to the command line environment
 - hard to quickly grok
- tldp.org
 - incredibly widespread documentation on all things Linux
 - again, hard to quickly grok

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Benefits

- User can easily look up shell commands and determine what they do
- Educate user in bash
- Allow users to avoid running malicious or insecure commands

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Problem

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Qualifications

Jake Zimmerman

- 1 year full-stack web development
- Interned at Bloomberg L.P. working on software engineering
- Justin Gallagher
 - 2 years of full-stack web development
 - Interned at Microsoft writing ASP.NET web apps
- Ted Li
 - Experience in iOS and web programming
 - Interned at Bloomberg L.P. doing natural language processing
- Howard Chen
 - Strong background in algorithmic thinking (15-210)
 - Taught principles of programming and software development, summer 2014



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