



October 13, 2017

Week 8, Class #23

Dev Tools

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MWF – 10:00-11:30 - Kepner 0095F

This Week – Technology



✧ Monday, 10-9

- Lecture – Learning

✧ Wednesday, 10-11

- Lecture – Frameworks

✧ Friday, 10-13

- Lecture – Dev Tools

Next Week

Design

Development Tools



- ✧ IDE
- ✧ Version Control
- ✧ Test Tools
- ✧ Issue Tracking
- ✧ Collaboration Tools
- ✧ Automation Tools
- ✧ Hosting solution

IDE Features



- ✧ Text editor
- ✧ Project files
- ✧ Color syntax
- ✧ Auto completion
- ✧ Refactoring
- ✧ Debug

Version Control



✧ Git

- Peer-to-peer repos
- Start simple
 - `status/add/commit`
 - `pull/push`

✧ Github or Bitbucket

- Web hosting services

Test Tools



- ✧ Unit testing
- ✧ Test plan
- ✧ System testing

Issues Tracking



- ✧ Atlassian Jira - Github issues
- ✧ One source of truth
- ✧ Integrate with source code & test tools
- ✧ Start simple

Collaboration Tools



✧ File Sharing

- Dropbox, Google Drive, One Drive

✧ Notes

- Evernote, One Note

✧ Email

- Gmail, Outlook

✧ Meetings

- Hangouts, Skype, Goto Meeting

Collaboration Tools



✧ Organization

- Save unstructured info as text
- Add structure as needed
- Build search filters

✧ Notes – 15 seconds to capture an idea

Automation Tools



- ✧ command line scripting
- ✧ custom commands for common tasks

Hosting solution



- ✧ Common answer for hosting (\$10/month)
- ✧ Application shell
- ✧ Deployment scripts