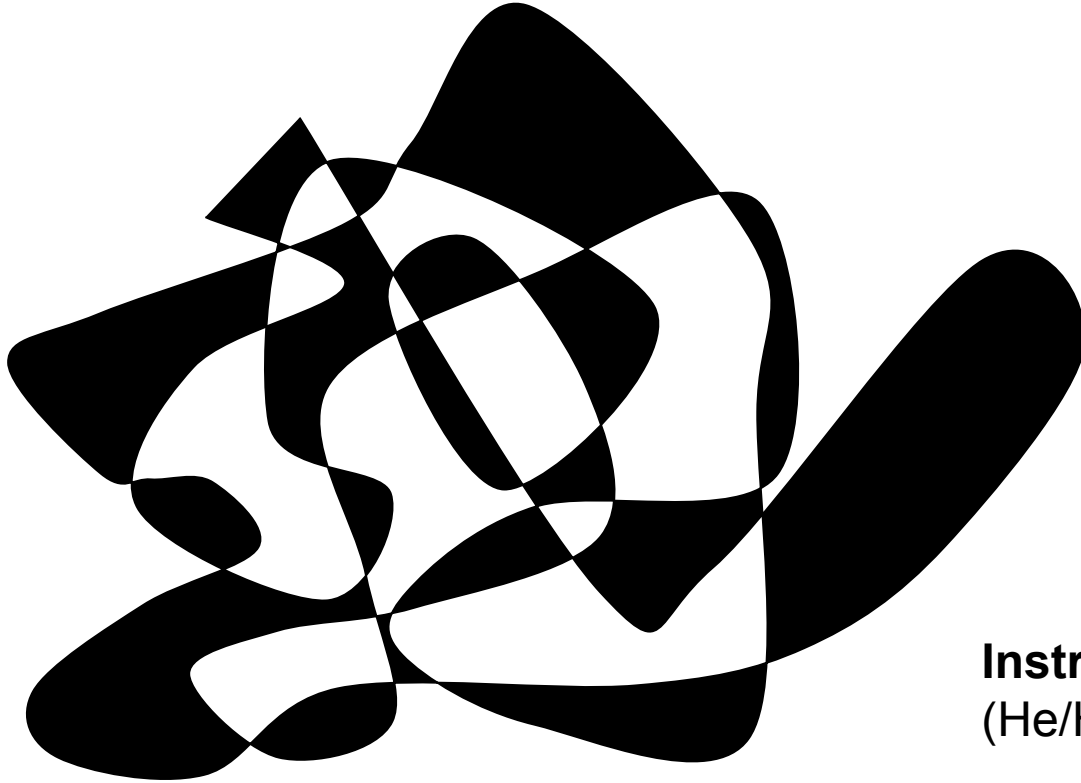


Advanced Project Management

IS 594



Instructor:
(He/Him)

Dr.

Bradly

Alicea

About Me



PhD in Cognitive Science and Computational Biology, Michigan State University. iSchool lecturer since 2023.

Senior Contributor, OpenWorm Foundation <https://openworm.org/>

Head Scientist and Founder, Orthogonal Research and Education Lab <https://orthogonal-research.weebly.com/>

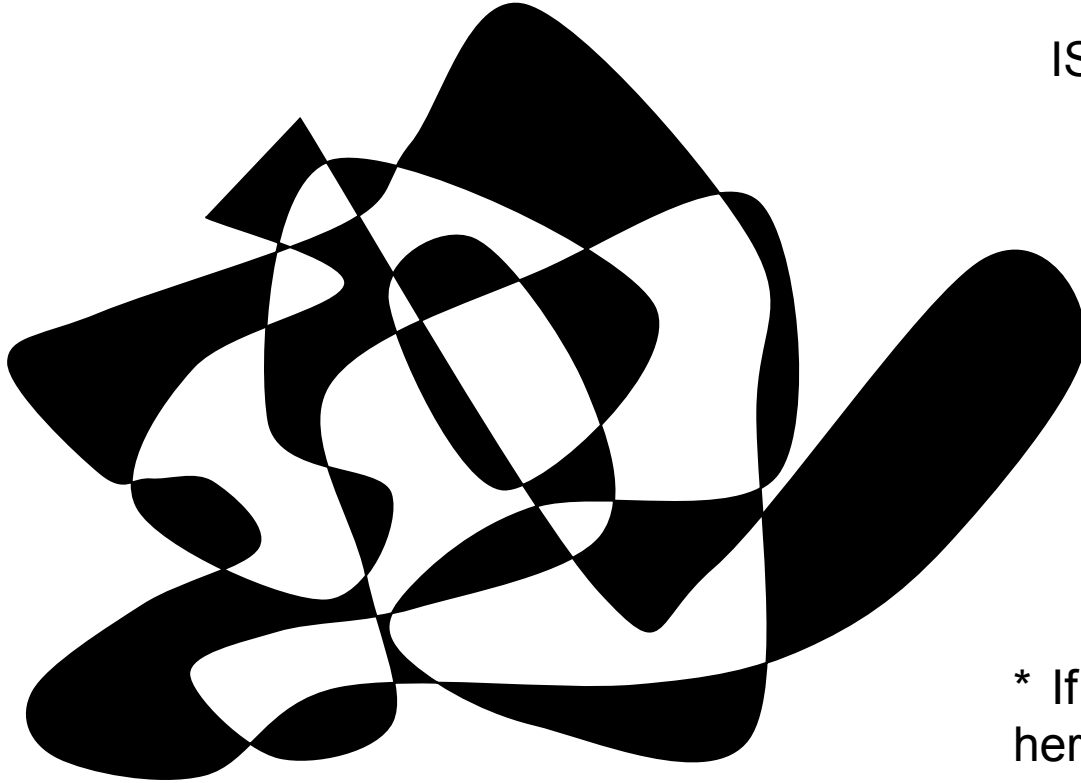
Mentor, Google Summer of Code, 2017-2025.

Mozilla Open Leader (2018-2019) and eLife Ambassador (2019).

Open-source Community Manager, Rokwire Initiative (2020-2022).

Advanced Project Management*

IS 594, Section PJ



* If you're not supposed to be here, consider why.

What is this class about and how does it differ from IS 340 (Integrative Project Management)?

IS 340 is a topical survey of project management. Some of those topics will be featured in IS 594.

This class allows us to deep dive into various topics in project management. Theoretical and practical (technical) aspects.

You are encouraged to think critically about the subject matter. Think beyond the latest hype and popular practices.

What techniques and methods would make project management *easier for you* (within the bounds of the course).

Class structure:

Hour 1: Standups (Introductions first week)

34 students x 2 minutes each (roughly 70 minutes).

10-minute break

Hour 2: Lecture with discussion

Based on weekly topic (see syllabus).

10-minute break

Hour 3: Problem-solving session

Based on weekly topic: live coding, in-depth discussion of blockers, breakouts.

Repository Creation and Maintenance

Create your own repository on Github

- be mindful of the different features in your repository (README files, Discussion boards, project tools, release tools).

Maintain your own repository on Github

- add in-class examples and work progress to repository, check-ins throughout the term, cumulative evaluation at end of term.

Deliverable: 1 page summary with link, list of contents, and notes on experience.

What is an open-source repository?



*Thing, **function**, importance*

*A **space** to organize project **materials** using directories.*

*A **tool** to schedule and manage **discussions**, **workflows** using project boards, forums.*

*An **automated practice** that manages **versions of digital artifacts** from multiple collaborators, workflow components.*


<https://github.com/OREL-group/pulsar>

 OREL-group / **pulsar**





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 **pulsar** Public


forked from [pulsar-edit/pulsar](#)














 Edit Pins  Watch 0  Fork 0  Star 0

 master  1 Branch  0 Tags

Q Go to file  Add file  Code


This branch is [77 commits behind](#) [pulsar-edit/pulsar:master](#).  Contribute  Sync fork


 **confused-Techie** Merge pull request [pulsar-edit#1011](#) from pulsar-edit/cirrus-updat... 890b6f9 · 2 months ago 42,026 Commits


 .github	Update Renovate preset name	2 months ago
 docs	GH Action Documentation	6 months ago
 dot-atom	rebrand and relinking to new site	2 years ago
 exports	Reformat all JS files using prettier	5 years ago
 hooks	Replace incorrect spellings of 'macOS' with the correct one	last year
 integration	A vain attempt to get the integration testing working for PHP	6 months ago
 keymaps	[keymaps] Rename A[a]tom -> P[p]ulsar	2 years ago
 menus	Revert "[skip ci] Create i18n API"	last year
 packages	Add new changelog	2 months ago
 ppm @ 241d794	ppm: Update ppm to commit 241d794f326b63b5abdb9769	6 months ago
 resources	Revert: WIP: only use an SVG for linux	3 months ago
 script	script: Update check to exclude '-dev' versions	6 months ago
 spec	Fix atom.ui.markdown issue with rendering of HTML in code b...	2 months ago


About ⚙️


A Community-led Hyper-Hackable Text Editor


 [pulsar-edit.dev](#)


 Readme


 View license

 Activity

 Custom properties

 0 stars

 0 watching

 0 forks

Report repository

Releases

No releases published



[Create a new release](#)

Packages



No packages published


[Publish your first package](#)








Languages


 JavaScript 90.7%  Less 4.7%





<https://github.com/OREL-group/chromium>




  OREL-group / chromium



Q Type  to search



 Code  Pull requests  Actions  Projects  Security  Insights  Settings


 chromium Public
forked from [chromium/chromium](#)


 Edit Pins  Watch 0  Fork 0  Star 0


 main  1 Branch  0 Tags


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This branch is 38511 commits behind [chromium/chromium:main](#)  Contribute  Sync fork


 sdefresne and Chromium LUCI CQ [ios] Preparation for asynchronously loading ... 3382021 · 3 months ago 1,410,056 Commits


 android_webview


 apps


 ash


 base


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 build_overrides


 buildtools


 cc








 chrome

 chromecast

 chromeos

 clank @ 1bae789

 codelabs

 Readme  BSD-3-Clause license  Activity  Custom properties  0 stars  0 watching  0 forks
Report repository

Releases
No releases published
[Create a new release](#)

Packages
No packages published
[Publish your first package](#)

Weekly Standups






Standup: scheduled report on progress, upcoming action items, and current blockers/challenges. Daily/weekly frequency.

Team Standup Meeting

Let's share our accomplishments, tasks, and blockers.

1

Duplicate the table for today's standup.



2	Add the Date MM/DD/YY	Aries	Cam	Kyle	Drew	Taylor
3	Yesterday's Accomplishments	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here
4	Today's Tasks	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here
5	Blockers	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here	<ul style="list-style-type: none">Add hereAdd hereAdd here

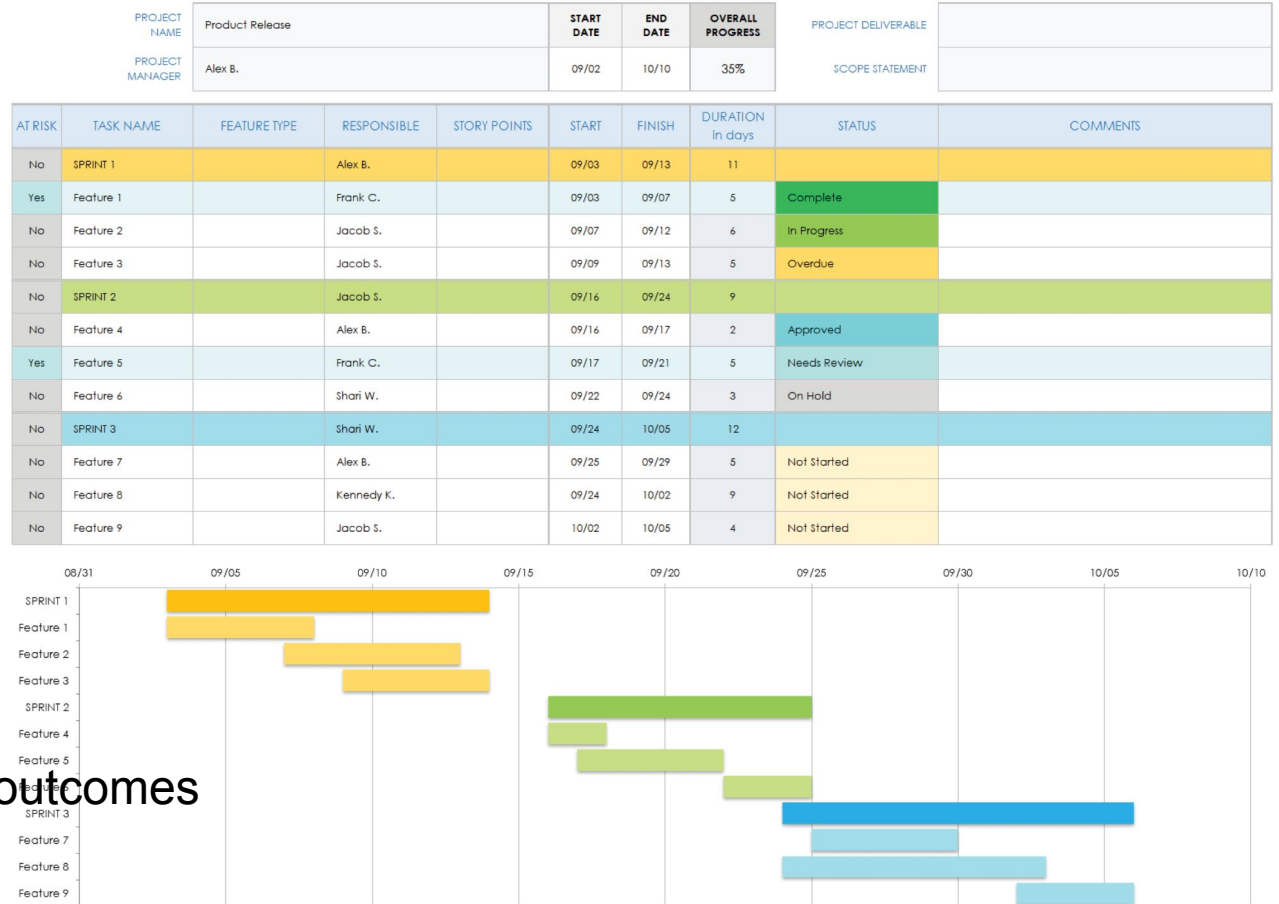
Project Management Research Paper

Pick a topic that might be your own professional relevance (IT, Library Science, theoretical issue, practical method).

Deliverable: a term paper **20 pages** in length (Introduction, materials and methods, description of artifacts, references).

- review an up-and-coming technique or methodology.
- improvements to existing methods, or propose a new method.
- compare and contrast two rival techniques.

WEEKLY SCRUM STANDUP MEETING TEMPLATE



Mapping standup outcomes
to a project board.

Assignments (5x, 5 points each)

Wardley Mapping (Building)

Architecture (Waterfall)

Scrum/Sprint (Process)

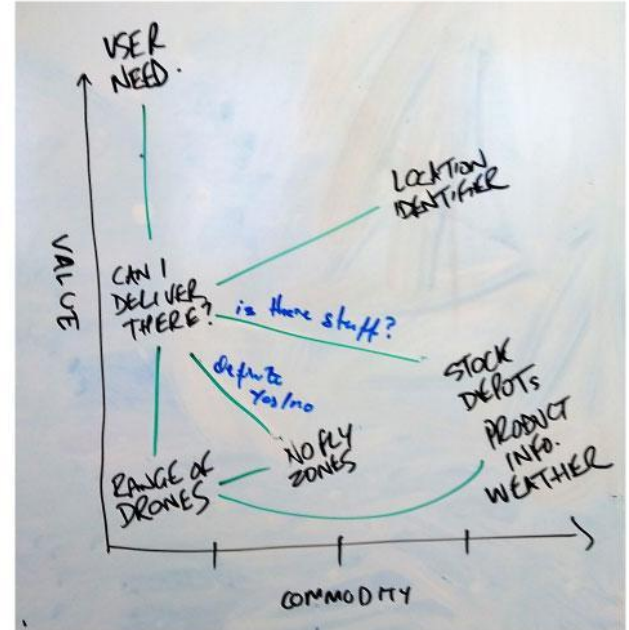
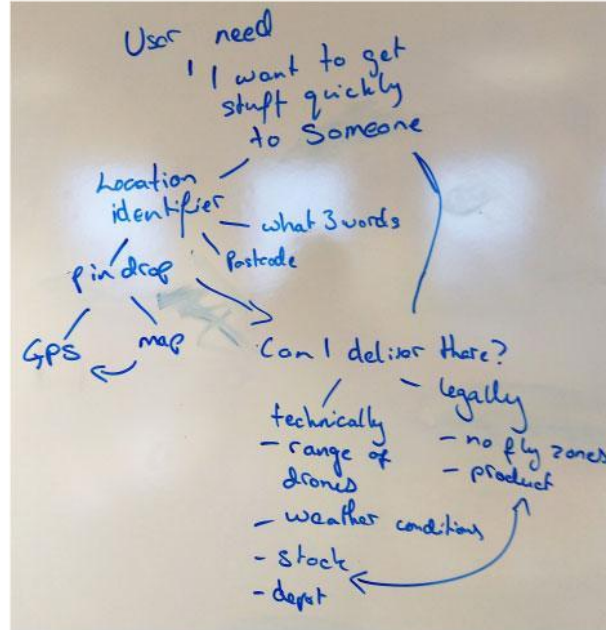
Process for no Good Reason? (Hypotheticals)

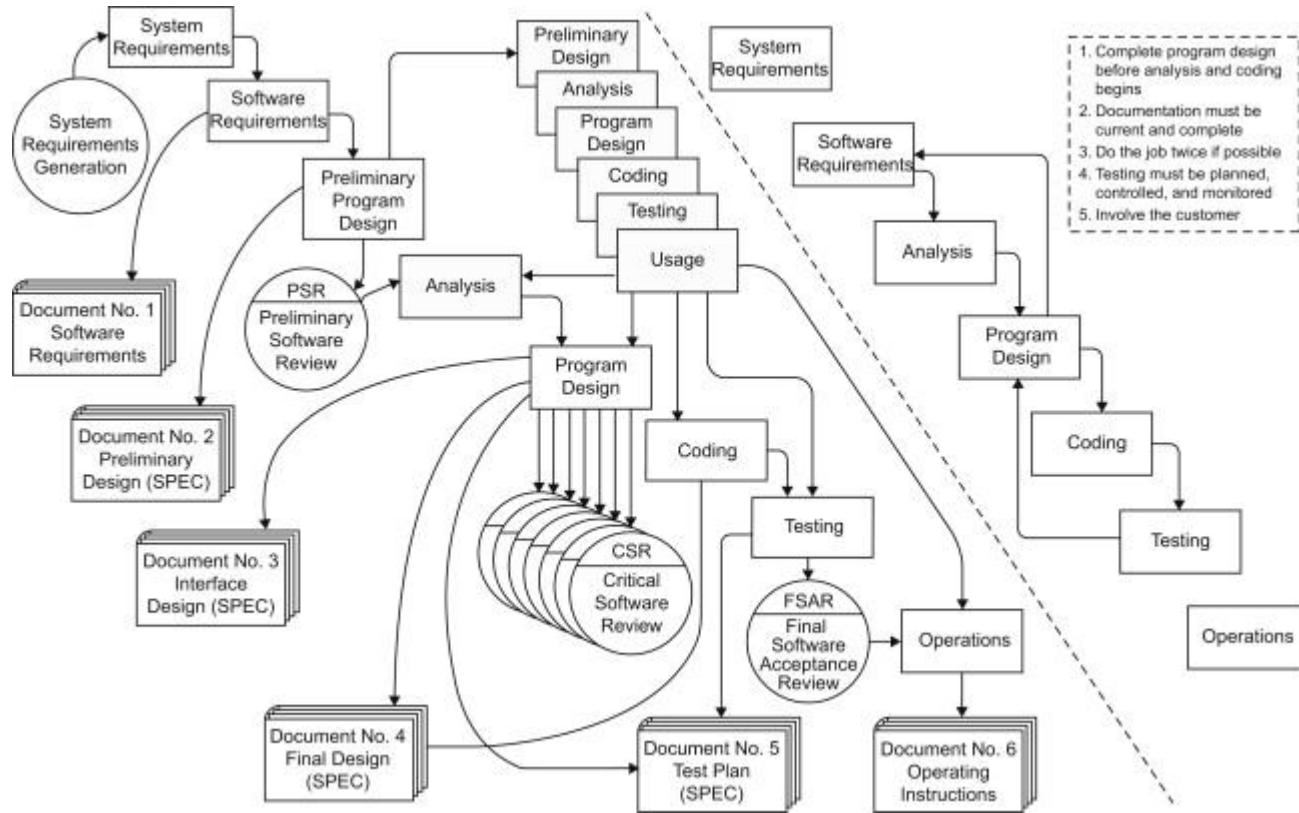
Issue Board (Process)

Wardley Mapping



Simon Wardley





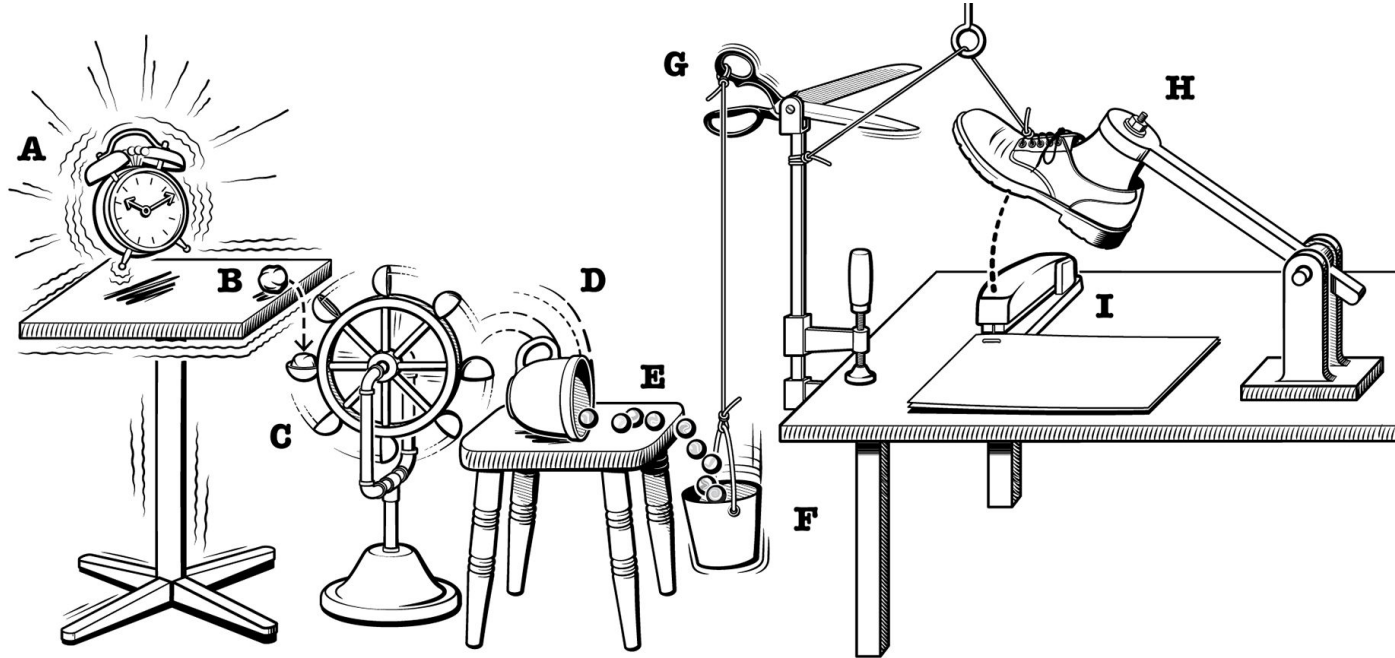
Waterfall Approach: documents specify parts (6x), top-down documentation (controlled versioning and complete before development).

The Sprint Model and Agile Methodology



Process for no Good Reason?

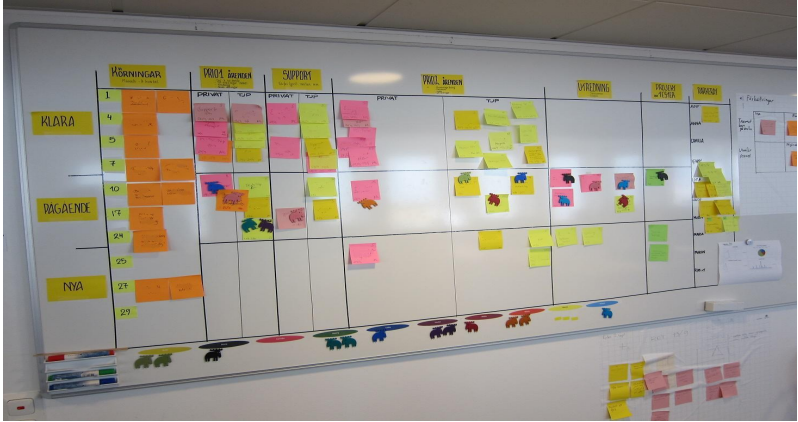
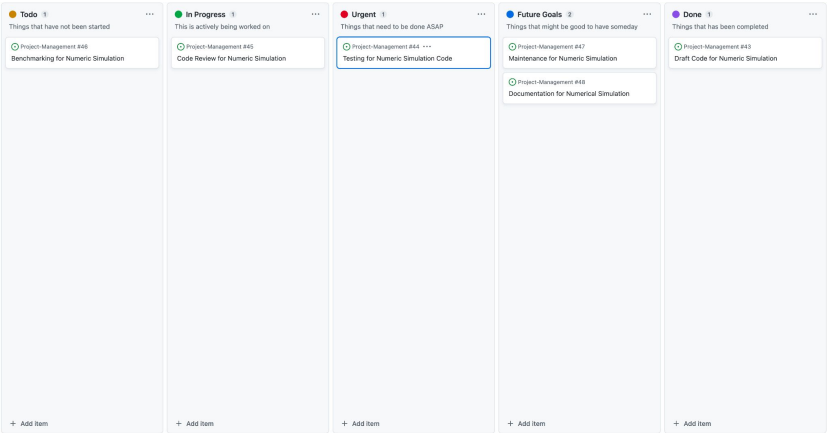
What dependencies are involved? Contingencies provide both opportunities and challenges.



Design Process



Kanban Board



Walk though Sample Repository

<https://github.com/OREL-group/Project-Management>