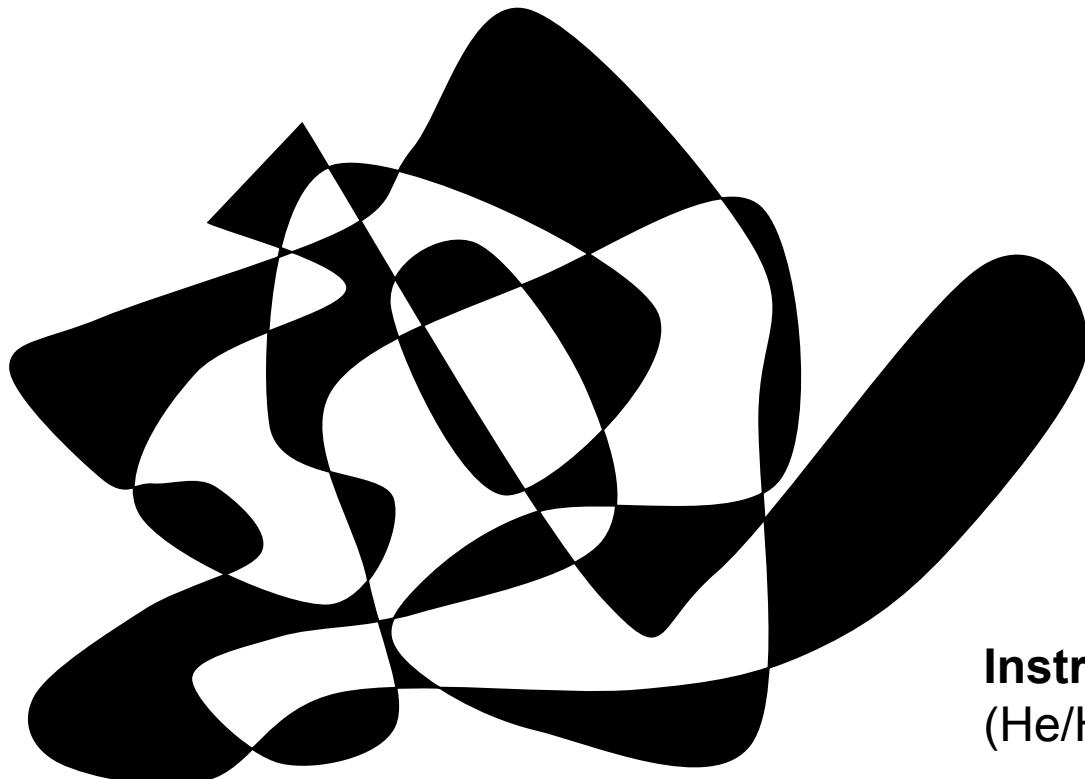


Advanced Project Management

IS 594



Instructor: Dr. Bradly Alicea
(He/Him)

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/>

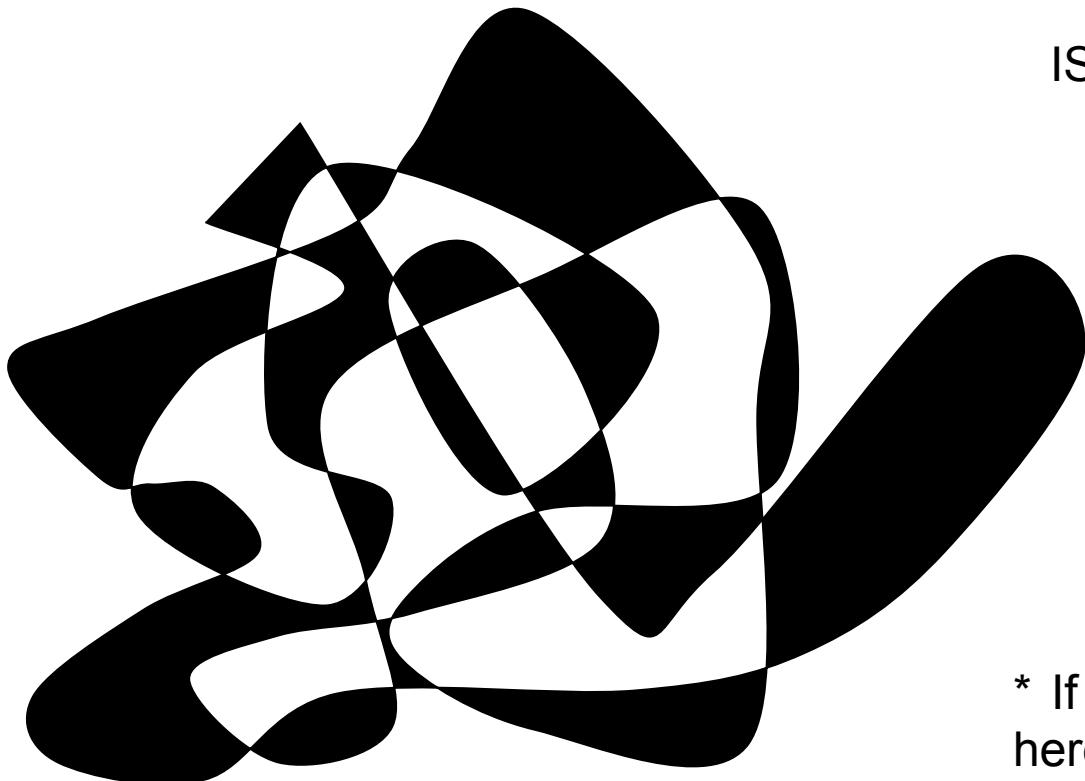
Mentor, Google Summer of Code, 2017-2025.

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>

OSEL-group / pulsar

Type ⌘ to search

Code Pull requests Actions Projects Security Insights Settings

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

Edit Pins Watch 0 Fork 0 Star 0

master 1 Branch 0 Tags 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[atom -> 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

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](#) [Go to file](#) [Add file](#) [Code](#)

This branch is 38511 commits behind [chromium/chromium:main](#).

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

- [android_webview](#)
- [apps](#)
- [ash](#)
- [base](#)
- [build](#)
- [build_overrides](#)
- [buildtools](#)
- [cc](#)
- [chrome](#)
- [chromecast](#)
- [chromeos](#)
- [clank @ 1bae789](#)
- [codelabs](#)

About

Chromium fork for Project Management course

[chromium.googlesource.com/chromium/...](#)

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Report repository

Releases

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

Packages

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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

3 Yesterday's Accomplishments

4 Today's Tasks

5 Blockers

	Aries	Cam	Kyle	Drew	Taylor
Yesterday's Accomplishments	• Add here • Add here • Add here				
Today's Tasks	• Add here • Add here • Add here				
Blockers	• Add here • Add here • Add here				

Project Management Research Paper

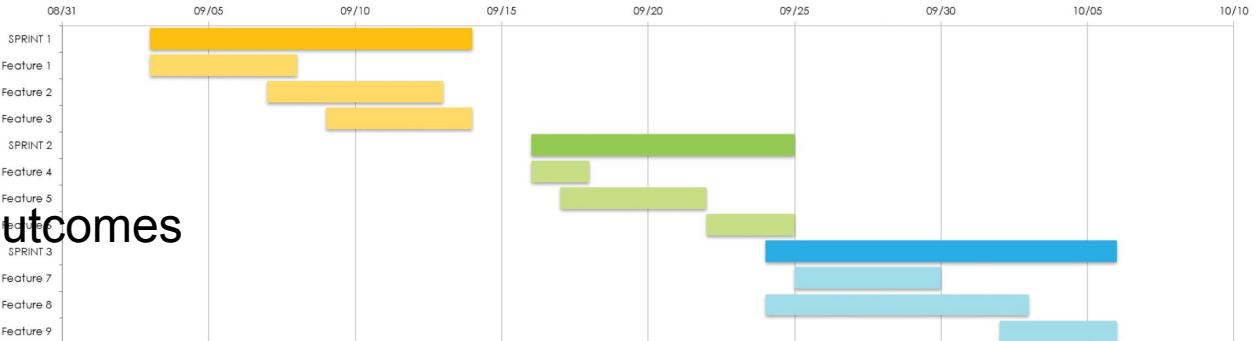
Pick a topic that might be your own professional relevance (IT, Library Science, theoretical issue, practical method).

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

PROJECT NAME	Product Release				START DATE	END DATE	OVERALL PROGRESS	PROJECT DELIVERABLE
	PROJECT MANAGER	Alex B.						
	AT RISK	TASK NAME	FEATURE TYPE	RESPONSIBLE	STORY POINTS	START	FINISH	DURATION in days
	No	SPRINT 1		Alex B.		09/03	09/13	11
	Yes	Feature 1		Frank C.		09/03	09/07	5
	No	Feature 2		Jacob S.		09/07	09/12	6
	No	Feature 3		Jacob S.		09/09	09/13	5
		SPRINT 2		Jacob S.		09/16	09/24	9
	No	Feature 4		Alex B.		09/16	09/17	2
	Yes	Feature 5		Frank C.		09/17	09/21	5
	No	Feature 6		Shari W.		09/22	09/24	3
		SPRINT 3		Shari W.		09/24	10/05	12
	No	Feature 7		Alex B.		09/25	09/29	5
	No	Feature 8		Kennedy K.		09/24	10/02	9
	No	Feature 9		Jacob S.		10/02	10/05	4



Mapping standup outcomes to a project board.

Assignments (5x, 5 points each)

Wardley Mapping (Building)

Architecture (Waterfall)

Scrum/Sprint (Process)

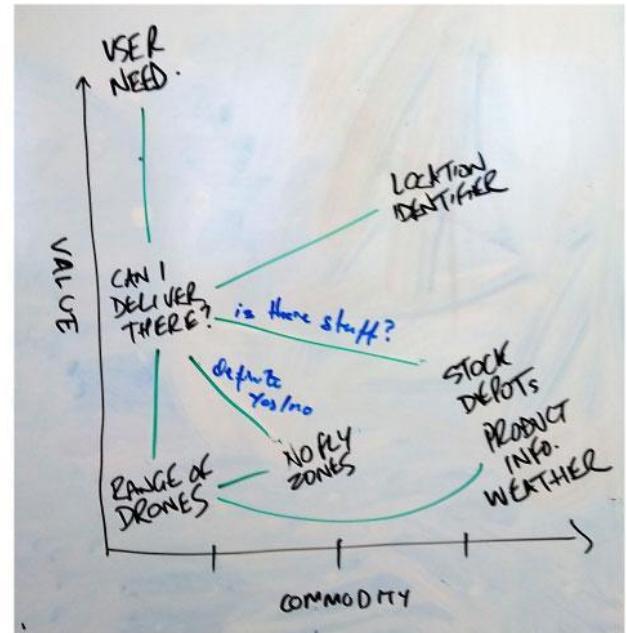
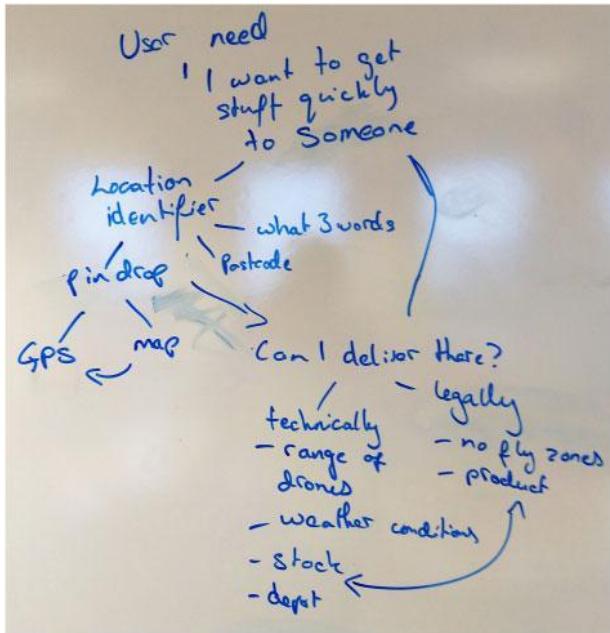
Process for no Good Reason? (Hypotheticals)

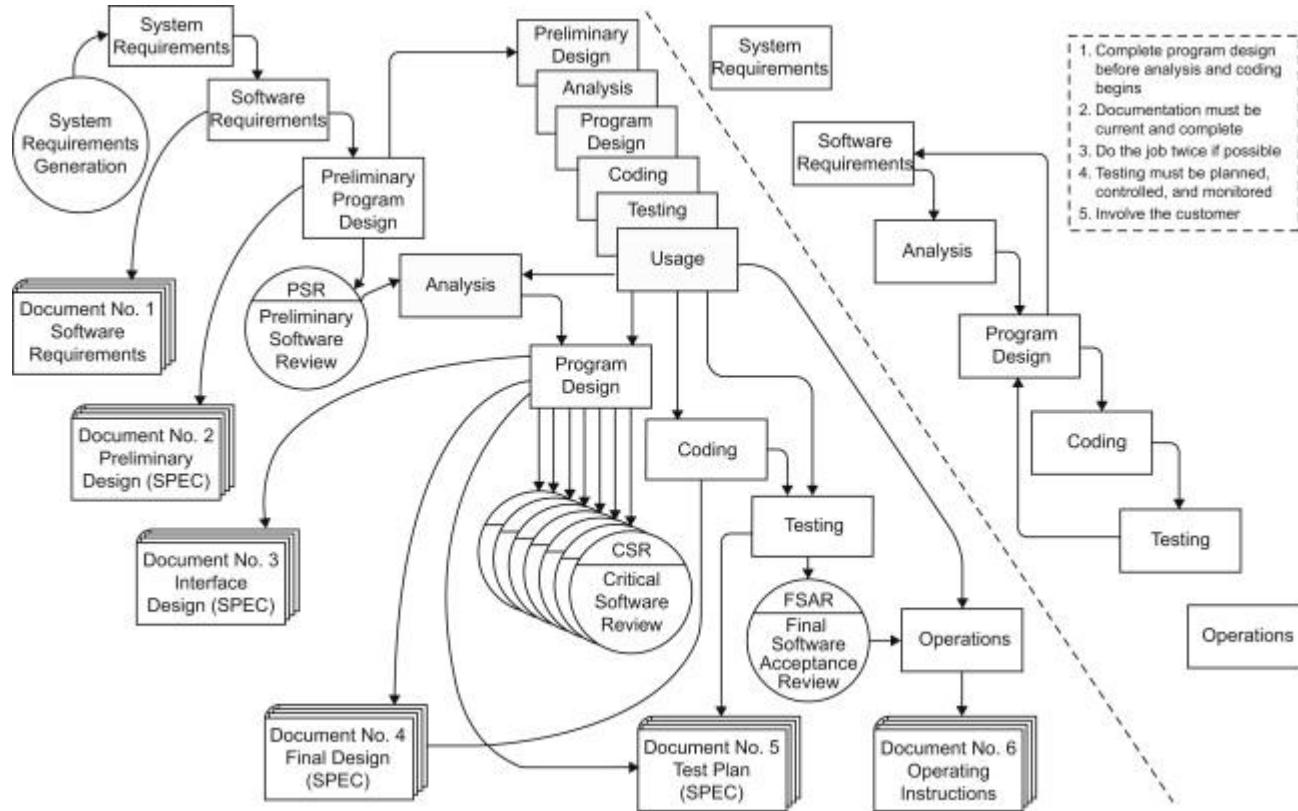
Issue Board (Process)

Wardley Mapping



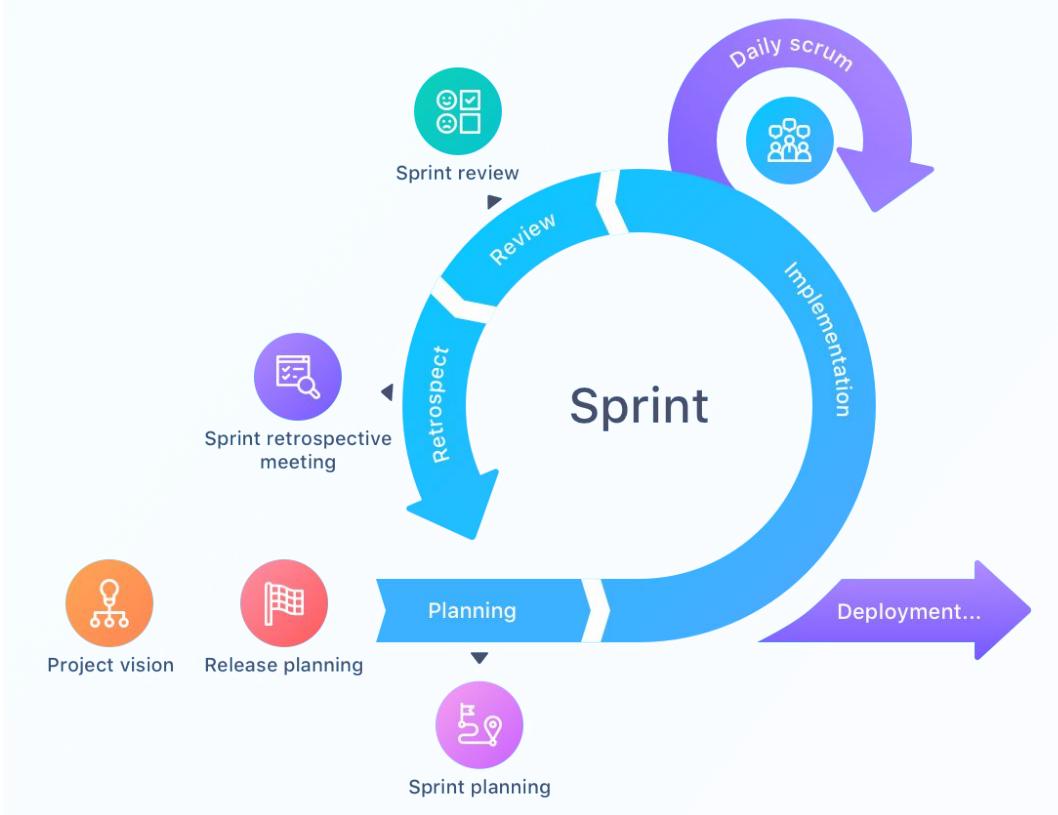
Simon Wardley





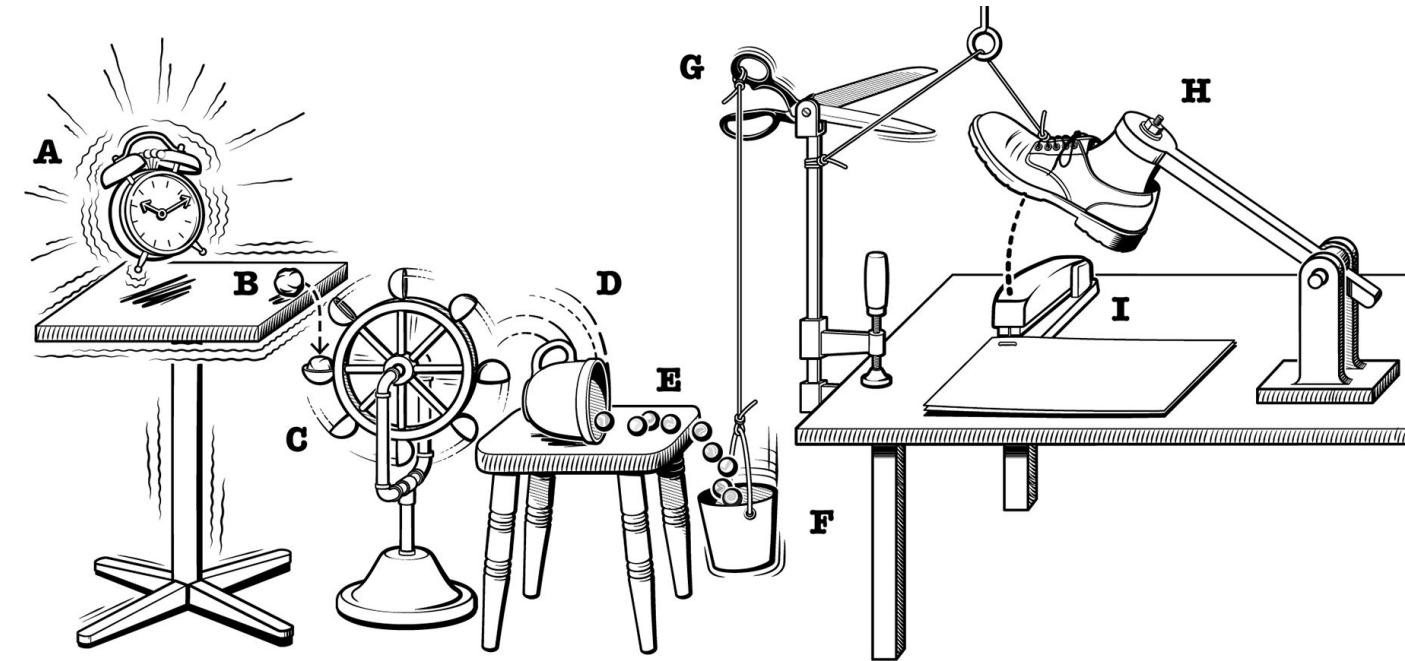
Waterfall Approach: documents specify parts (6x), top-down documentation (controlled versioning and complete before development).

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

Todo 0
Things that have not been started

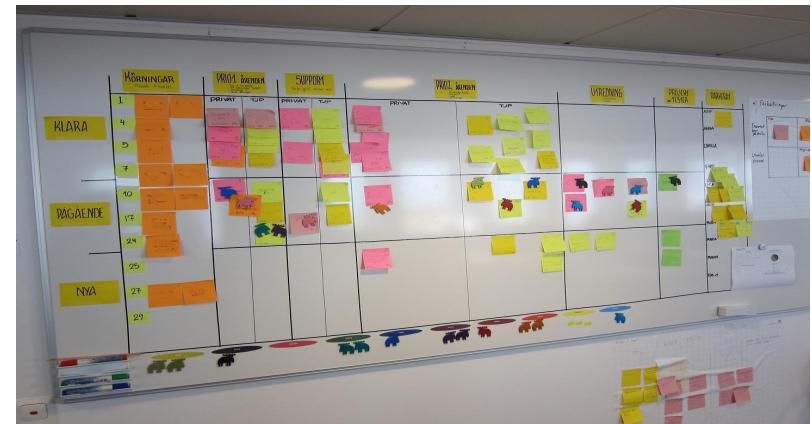
In Progress 1
This is activity being worked on

Urgent 1
Things that need to be done ASAP

Future Goals 2
Things that might be good to have someday

Done 1
Things that has been completed

+ Add Item



Walk though Sample Repository

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