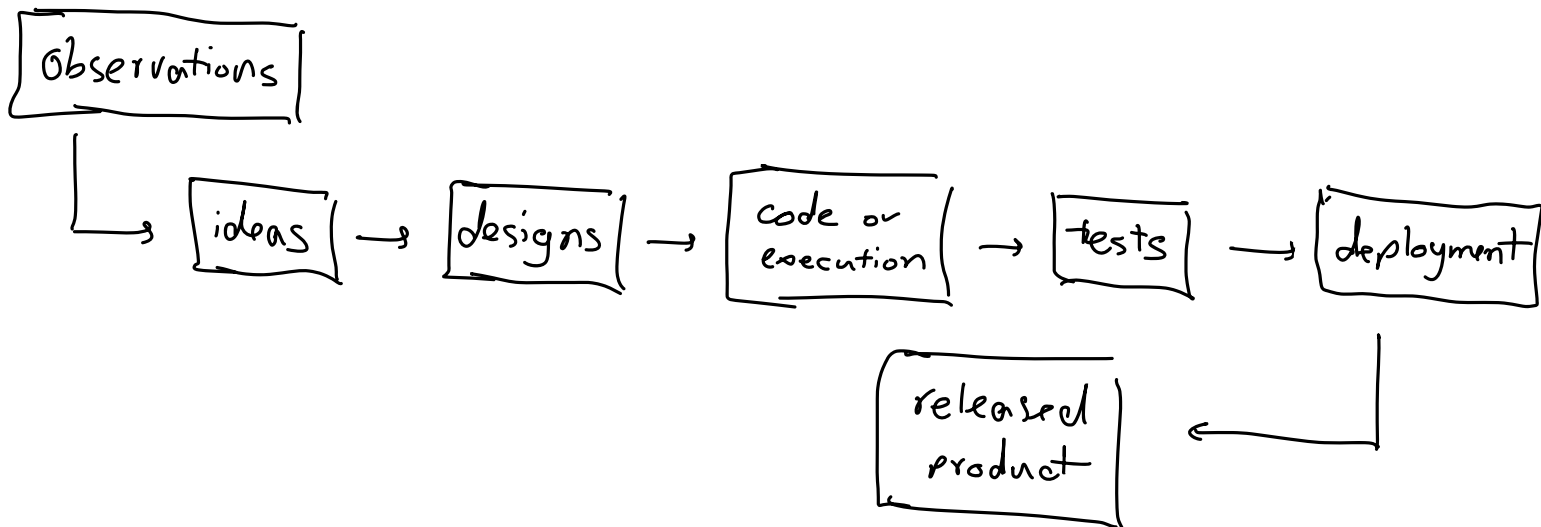


Hypothesis-Driven Development

⚠ Product Pipeline



⚠ Continuous Design \rightsquigarrow features w/ high engagement
total features released

⚠ Agile Development \rightsquigarrow total features released

⚠ Continuous Delivery \rightsquigarrow frequency of releases

⚠ A healthy durable person or set of personas is going to be a constant part of your conversations about what you're designing, what you're building, how you're supporting it, ...

⚠ The MVP is not v1.0.0. The idea is that the MVP is some kind of product proxy that we create so that we don't generate the waste of actually building out a full product

↳ goal: test hypothesis before investing in building a full feature

⚠ Interview: choice of venue

in-person
in-situ } in-person
 } ex-situ } video call } voice call

⚠ Interview template

- ↳ ① tell me about [yourself in the role of persona]?
- ↳ ② tell me about [your area of interest]?
- ↳ ③ tell me your thoughts about [area]?
- ↳ ④ what do you see in [area]?
- ↳ ⑤ How do you feel about [area]?
- ↳ ⑥ what do you do in [area]?

⚠ Design Sprints are a way that teams make time to do the work of continuous design in their Agile cadences

⚠ 5 phases of design sprint

- ① understand
- ② sketch
- ③ decide
- ④ prototype
- ⑤ validate

⚠ Testing a demand hypothesis with lean startup

Do I have real evidence from buyer that this is compelling	idea
What's our demand / value hypothesis? and its key components / child hypothesis?	Hypothesis
How do I prove or disprove the assumptions with a minimum of time and effort?	Experimental Design
Am I reacting or Am I focused on validating my pivotal assumptions	Experimentation
Pivot or Preserve?	Pivot or Preserve

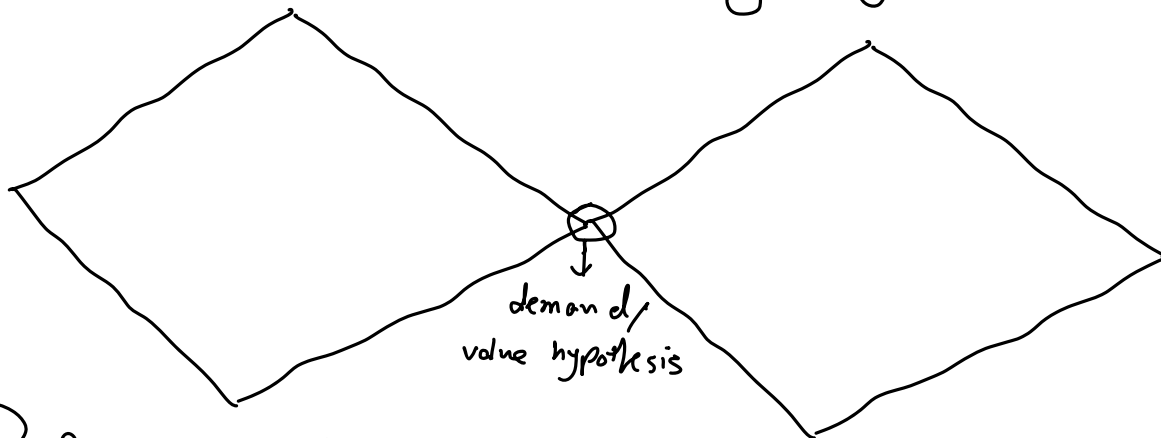
⚠ MVP types

MVP Archtype	Notes	Depth	Definition
Concierge	Hand create user experience	High	Low
Wizard of Oz	show or fake the customer interaction	Medium	medium
Smoke Test	See if you can sell some	Low	High

⚠ Asking the right question at The right time

Finding the right problem

Finding the right solution



① Persona hypothesis

② Problem / JTBD hypothesis

① usability hypothesis

⚠ Design Process

- ↳ focus
- ↳ consistency
- ↳ experimentation

⚠ strategy

↳ what's the company (or product) about?

↳ starting point: positioning statement

⚠ Usability test suites

① exploratory \xrightarrow{X} ② Assessment \xrightarrow{Y} ③ Validation

$X \Rightarrow$ It looks like this approach will fundamentally work

$Y \Rightarrow$ The implementation is sound and ready for tuning

$Z \Rightarrow$ ready for prime time

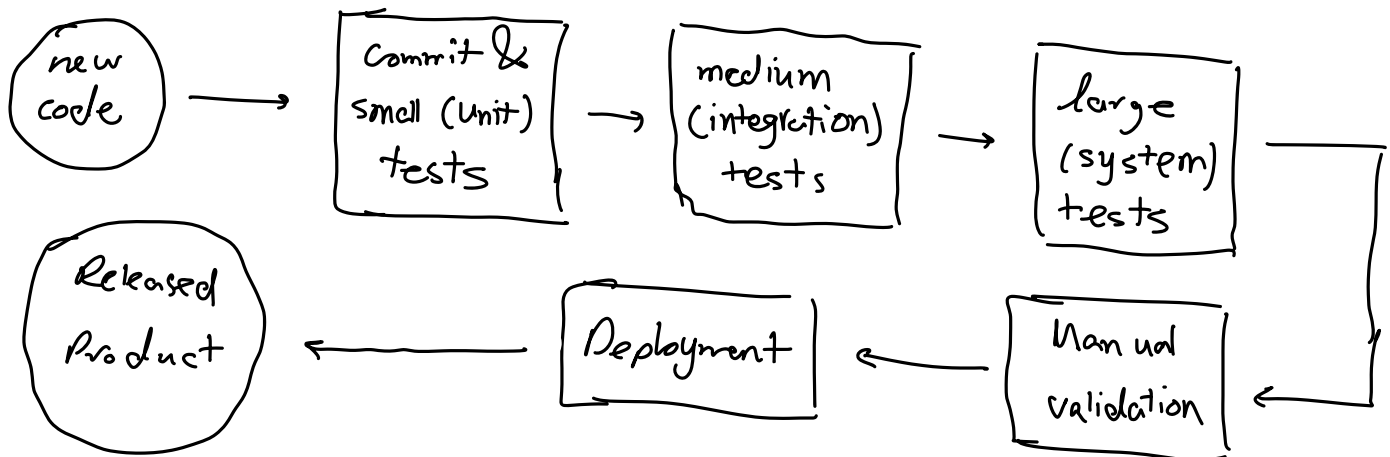
⚠ Top 3 reasons why teams don't test more

- ↳ It's painful to see how wrong you were about the user
- ↳ Members are have been turned off by phase-inappropriate testing
- ↳ Getting in front of real users is kind of a pain

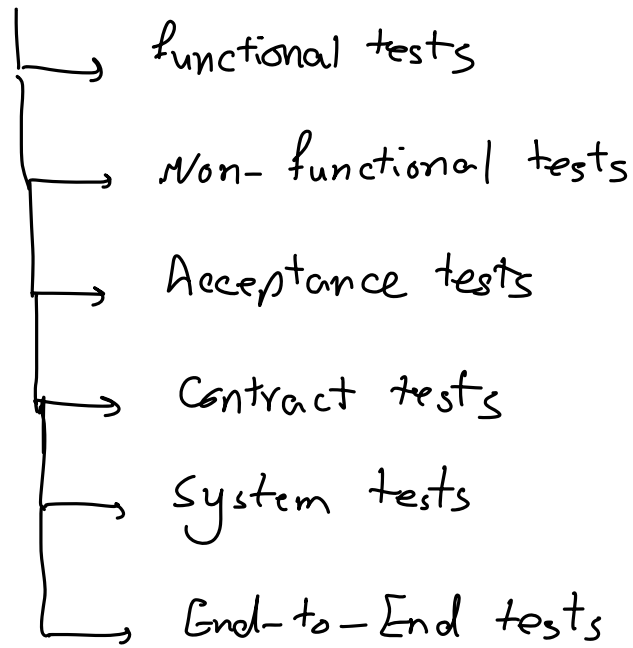
⚠ Running a usability design sprint

Day	Inputs	Outputs
1	Sprint checklist, Subjects Practice on testing User stories, local assumptions	working test plan interactive mockups
2, 3	working test plan interactive mockups	validated test plan test plan results
4	test plan results	Top learnings revised user stories revised wireframes

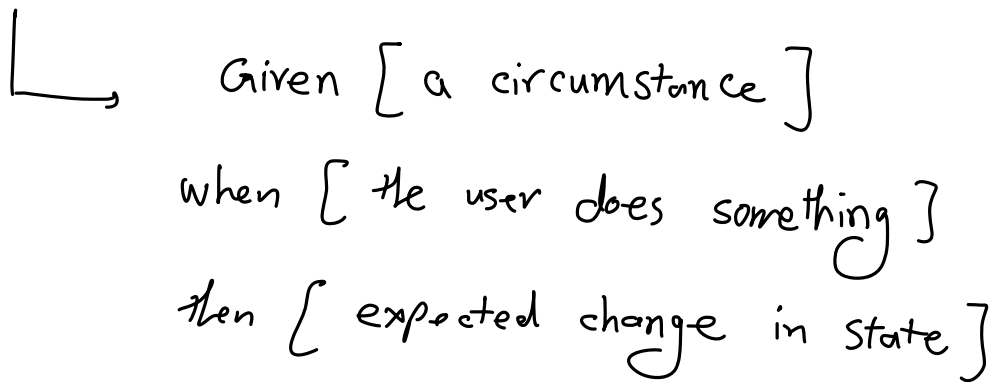
⚠ Continuous Delivery Pipeline



⚠ large (system) tests



⚠ The Given - When - Then Pattern



⚠ Use case, what's included

- ① title: primary actor
- ② Goal in context
- ③ Scope
- ④ Level
- ⑤ stakeholders and interest
- ⑥ Pre condition
- ⑦ Minimal Guarantees
- ⑧ Success Guarantees
- ⑨ Trigger
- ⑩ Main Success Scenario
- ⑪ Extensions
- ⑫ Technology & Data Variations