

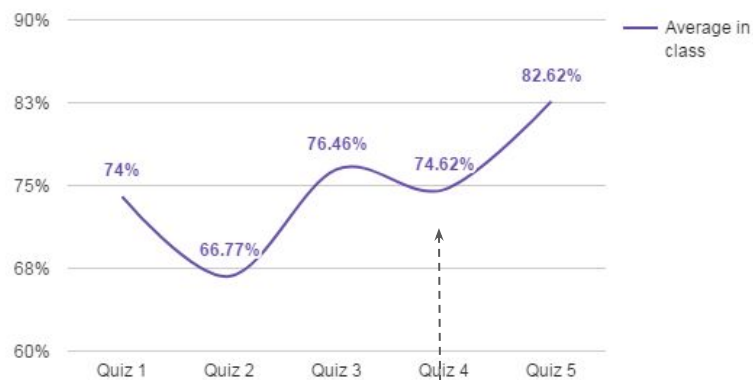
CS449/649: Human-Computer Interaction

Spring 2017

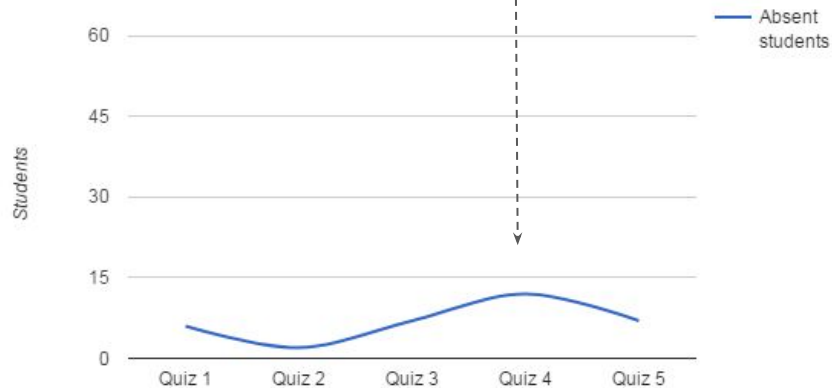
Lecture X

Anastasia Kuzminykh

Average in class



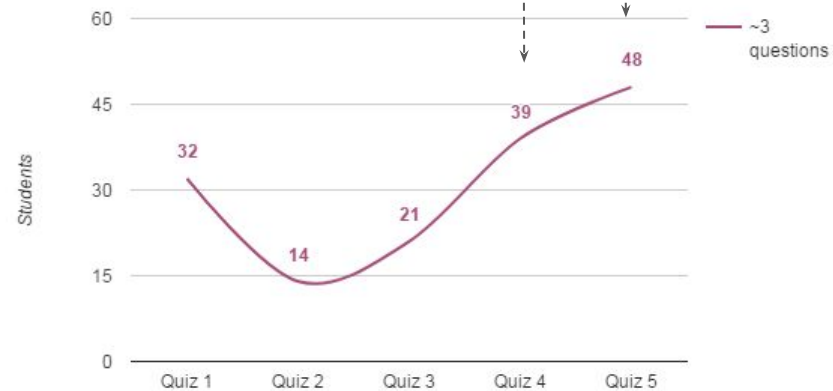
Absent students

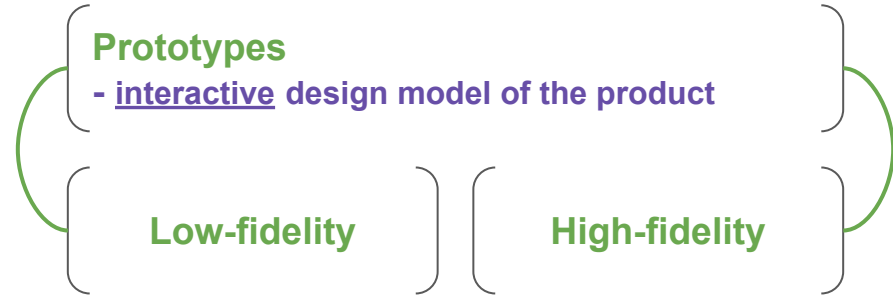


Average within answered



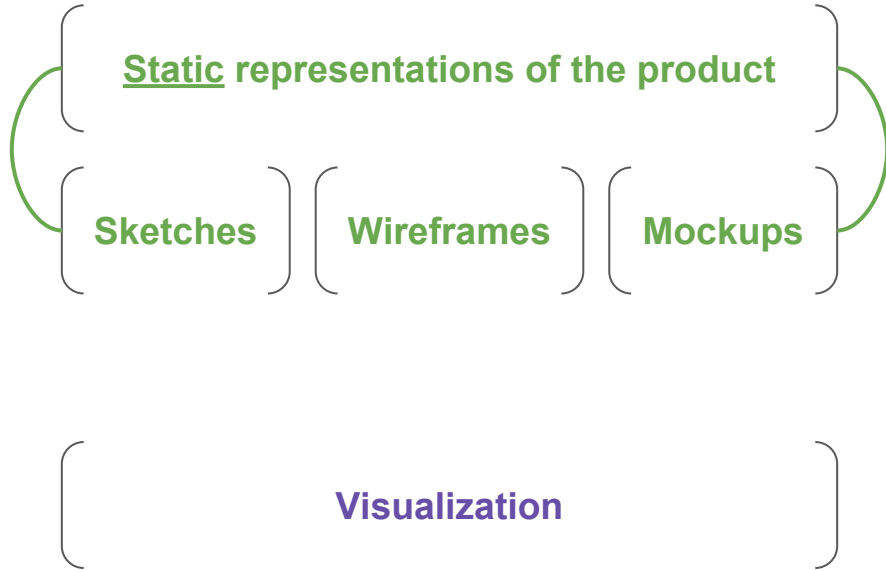
~3 questions



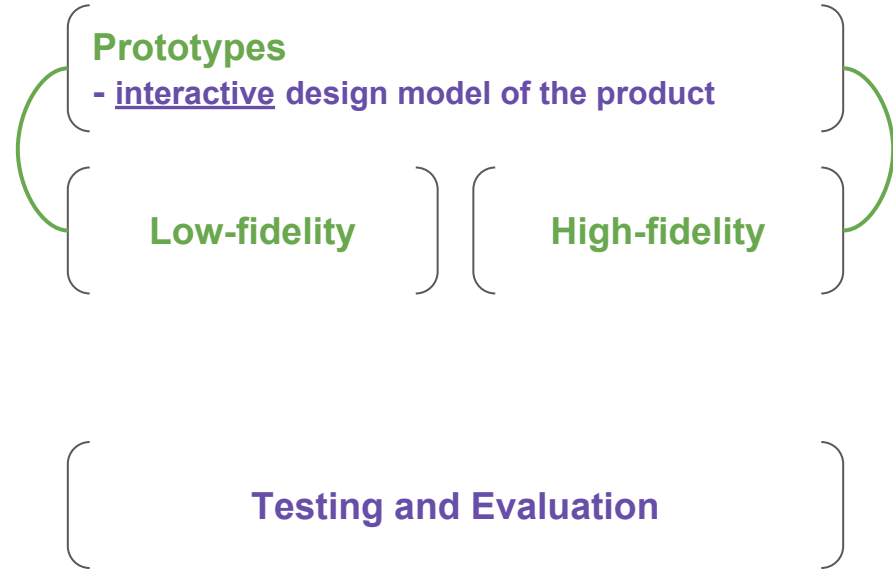




Create Design Ideas



Prototype Design





Understanding how to use a remote is made easier by a friend.
Photo Nicolas Zurcher



IDEO: An early prototype for the Gyrus ENT Diego, a surgical tool



Image by Victor Schade, source: [Creative Edge Products](#)



Prototype Design

Paper Prototyping Tips

Make it large

**Preprint
widgets**

**Add ideas as
they come**

Work fast!

**Use audio
description**

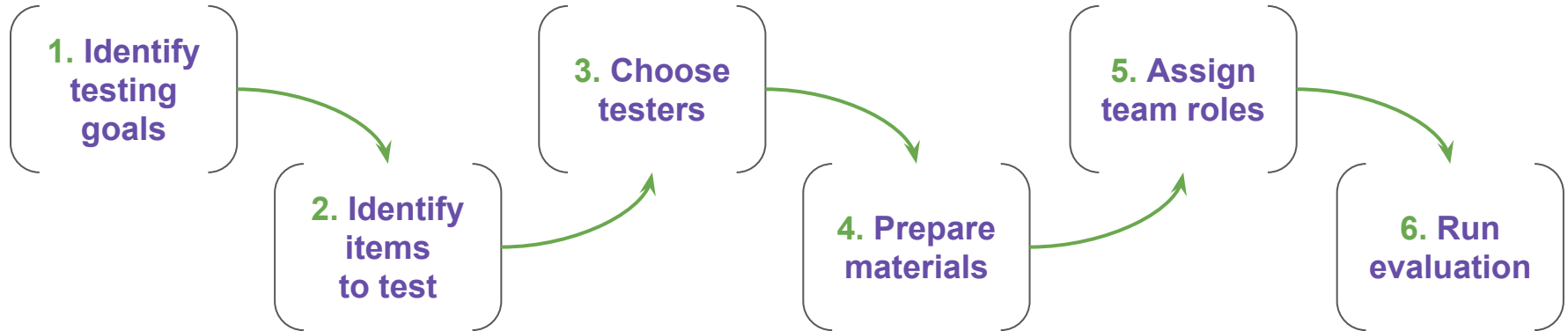
**Make it
monochrome**

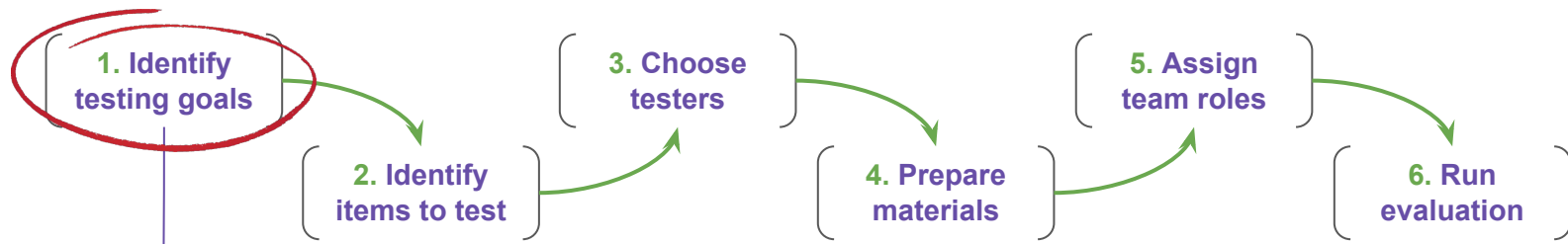
**One sketch
per screen**



Prototype Design

Paper Prototyping Evaluation





-
- What do you want to know?
 - What aspects of **UX** are you evaluating?
 - What aspects are the most risky?

1. Identify testing goals

3. Choose testers

5. Assign team roles

2. Identify items to test

4. Prepare materials

6. Run evaluation

- What do you want to know?
- What aspects of **UX** are you evaluating?
- What aspects are the most risky?

- Which components / features are you testing?
- How “deep” do you test each feature?
- Which tasks you are evaluating?

1. Identify testing goals

2. Identify items to test

3. Choose testers

4. Prepare materials

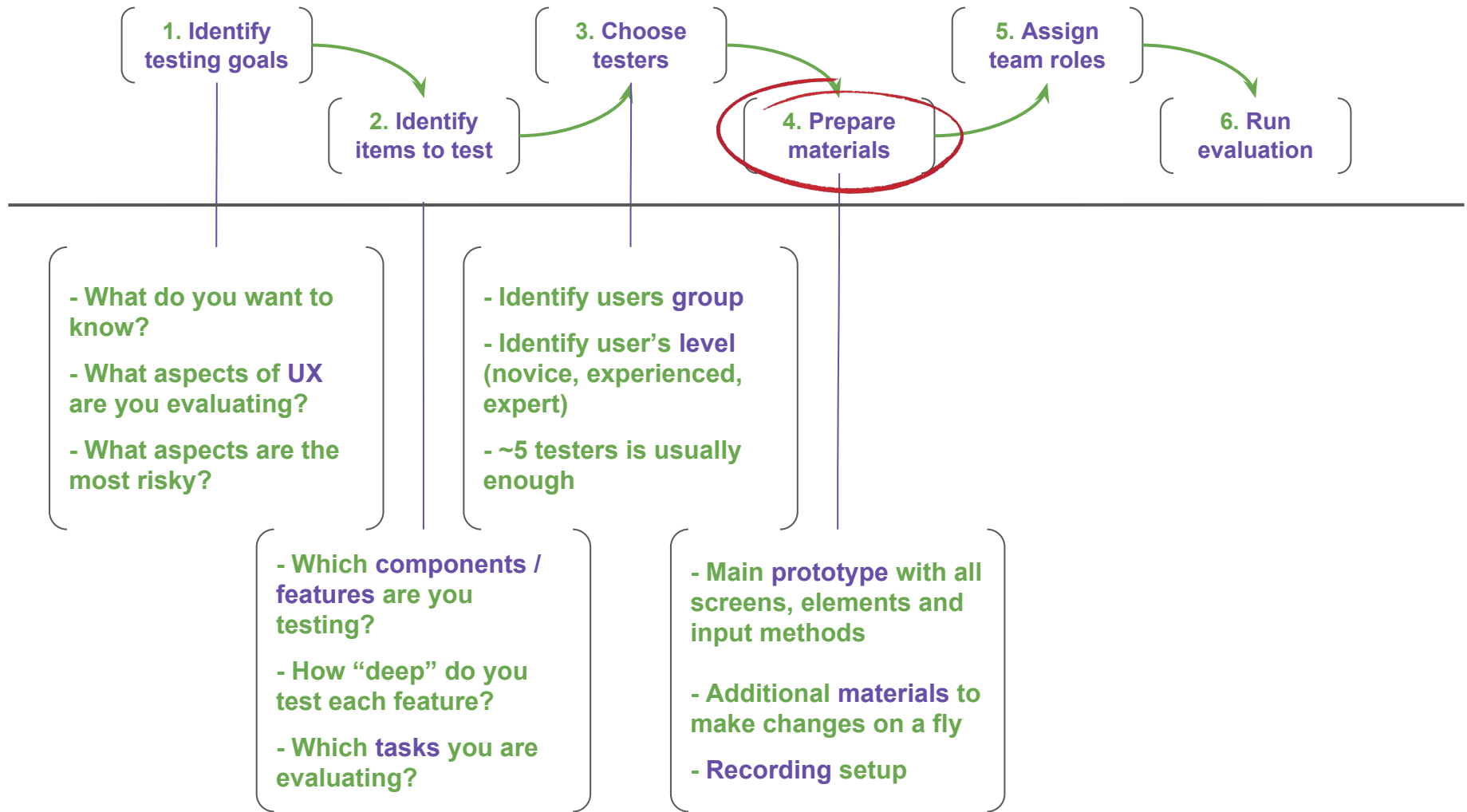
5. Assign team roles

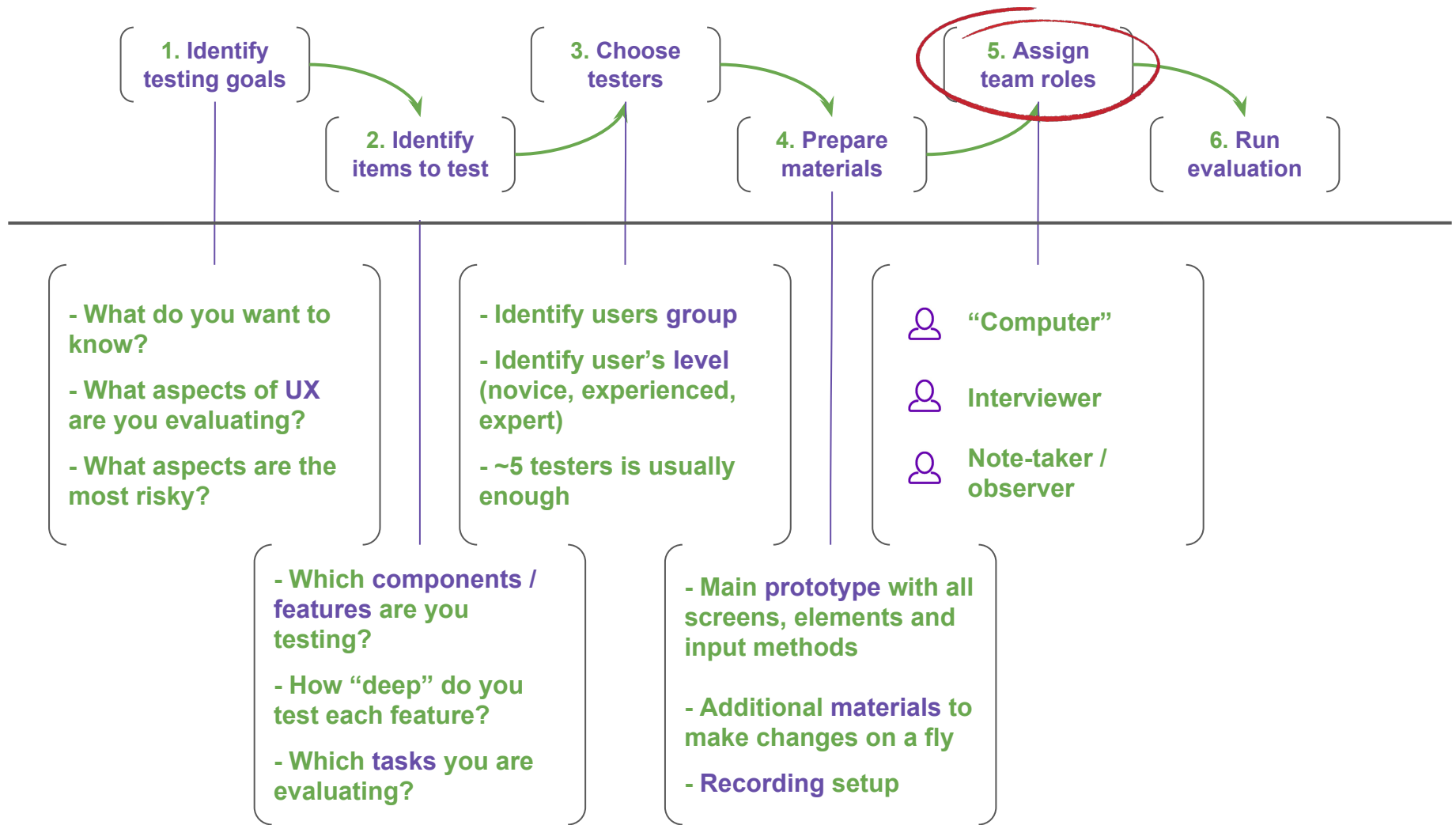
6. Run evaluation

- What do you want to know?
- What aspects of **UX** are you evaluating?
- What aspects are the most risky?

- Identify users group
- Identify user's level (novice, experienced, expert)
- ~5 testers is usually enough

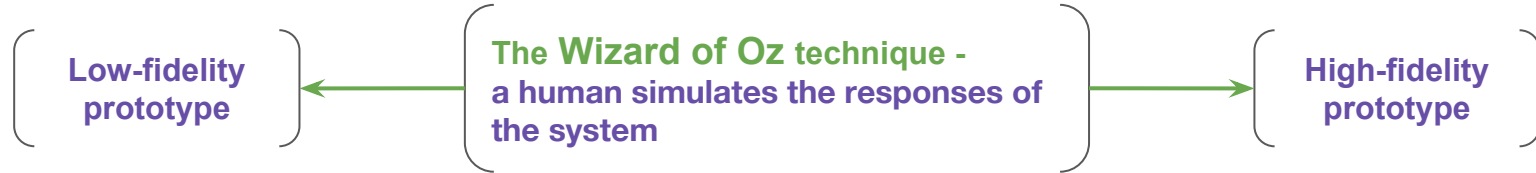
- Which components / features are you testing?
- How "deep" do you test each feature?
- Which tasks you are evaluating?







Prototype Design



John F. ("Jeff") Kelley

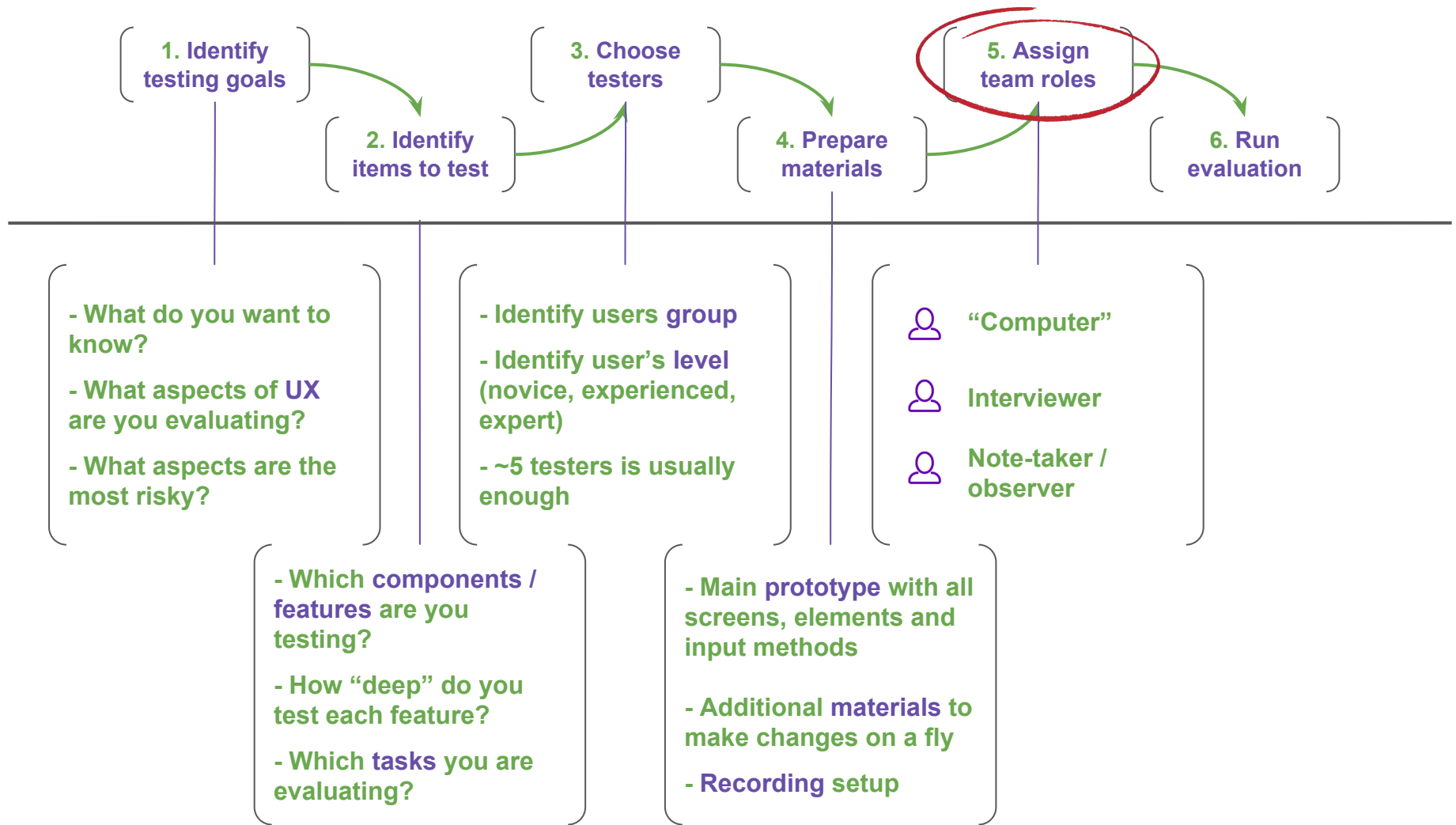
OZ = Offline Zero

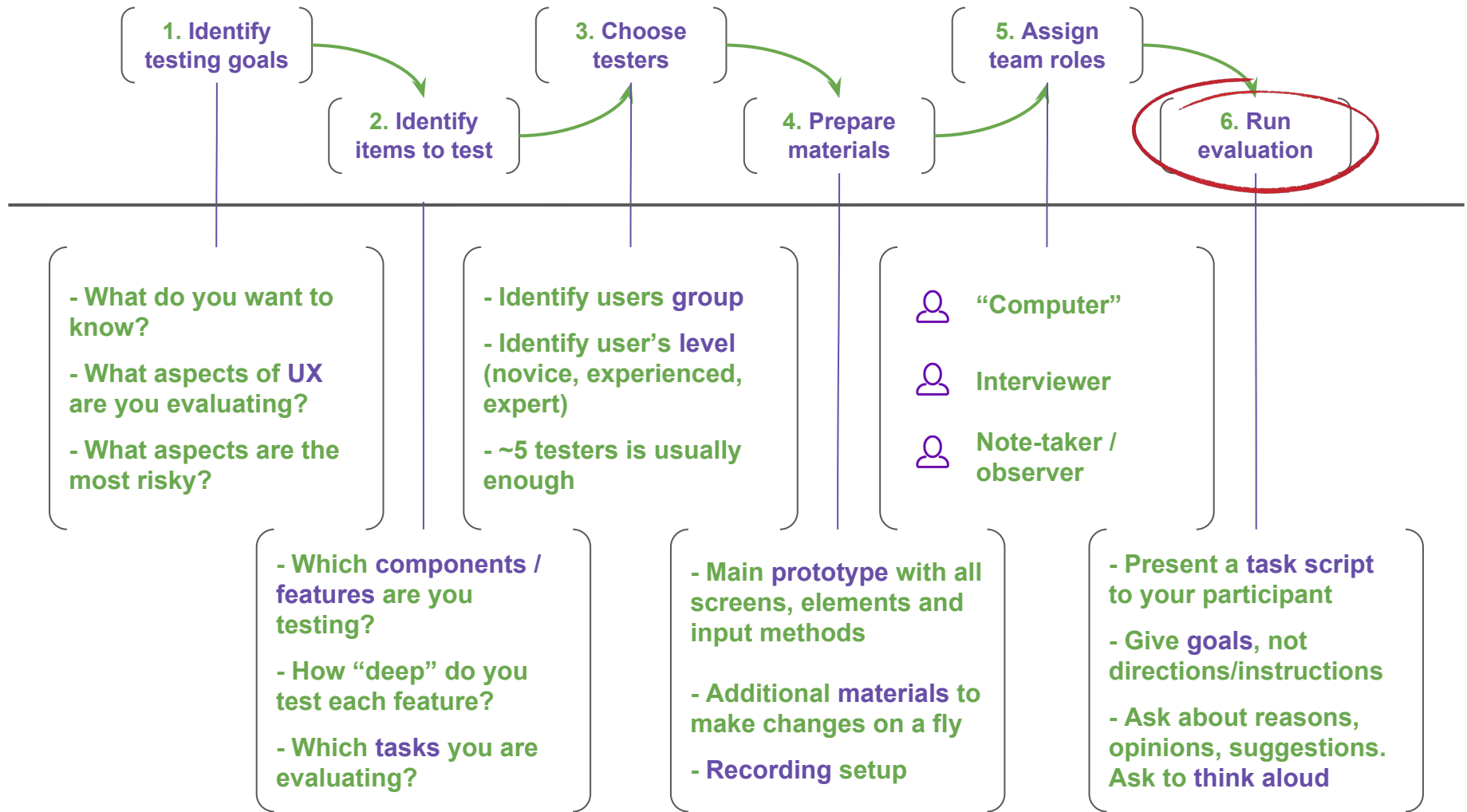
Kelley, J. F. (1984).

An iterative design methodology for user-friendly natural-language office information applications.

You need:

- Detailed test plan with test scenarios
- Script of instructions for the facilitator, wizard, participants
- Procedure for the wizard to properly respond to input from a participant
- The "wizard"





Week 5 take-away

- Differences between static visualization tools and prototypes
- Information architecture: what is it about and why UX is concerned with it
- Knowledge organisation classification approaches:
 - taxonomy
 - folksonomy
 - domain analytics
- Dimensions of fidelity: breadth, depth, appearance and input
- Low-fidelity (paper) prototypes:
 - Characteristics and purposes
 - How to make
 - How to evaluate (6 steps)
- Wizard of Oz technique