INFO360: Design Thinking

Methods for Design, Prototyping and Evaluating Information Systems

Lecture 01:
Introduction

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Sonam Samel

DESIGN
USE
BUILD

PAUL G. ALLEN SCHOOL
OF COMPUTER SCIENCE & ENGINEERING

Who we are

Nigini Oliveira

Studied computer science in Brazil

PhD in CS in 2017

Postdoc in CS here at UW

Work in cross-cultural collaboration and online experimentation

Likes literature and long distance bike rides

Who we are

Sonam Samel

2nd year HCDE Masters student.

BFA in Applied art and a M.Des in Graphic design.

UI/UX Design with companies like Nokia research center, Zynga Games and Walt Disney

I wish to explore the wearable tech medium.

I like clean designs and in my free time I enjoy hand making jewelry and photography.

HCI at UW

Cross-Campus HCI Efforts

DUB - weekly seminar at noon on Wednesdays

MHCID

My Teaching

CSE 440: Introduction to HCI

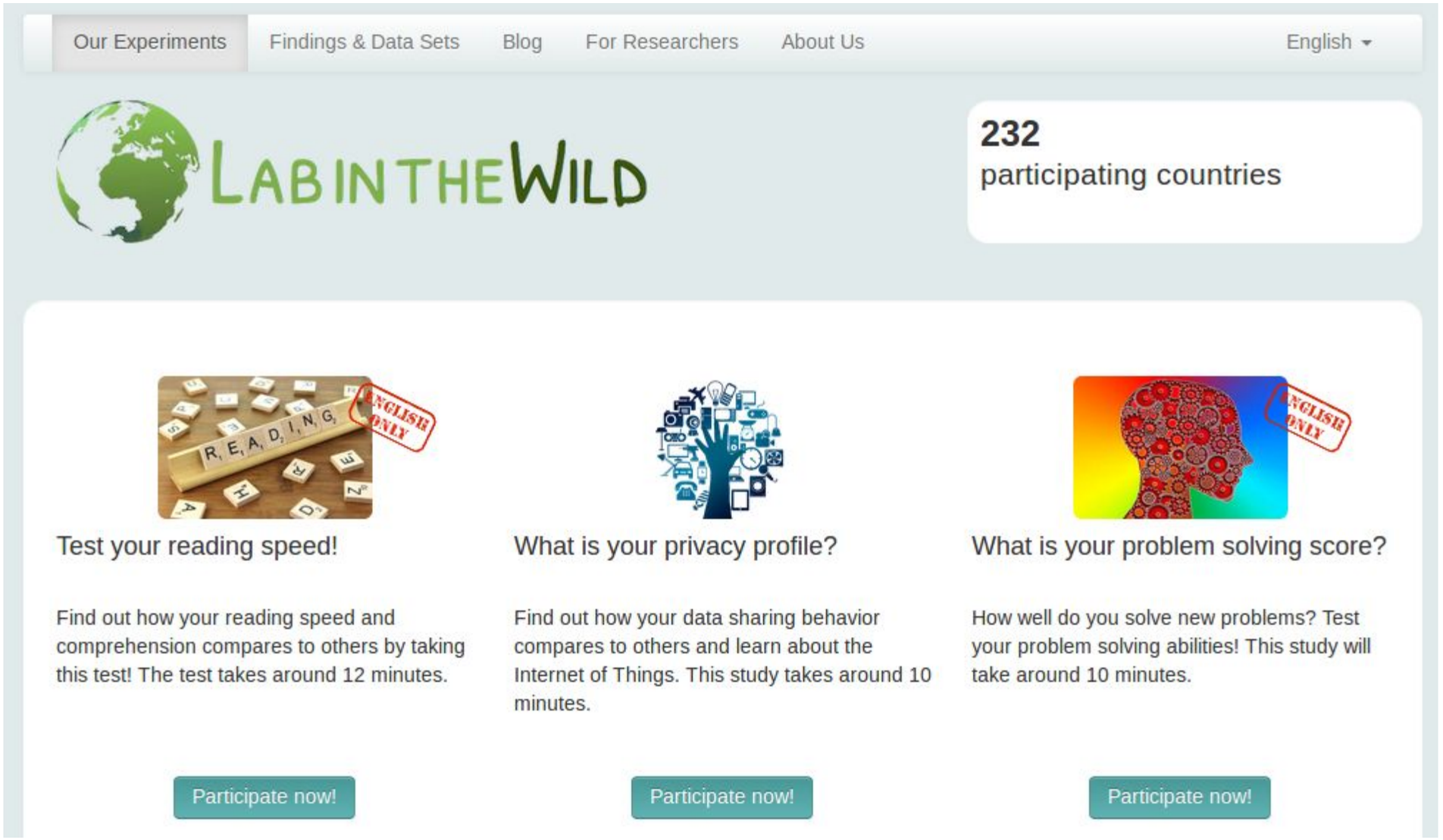
INFO 360: Design Thinking

Back in Brazil

All sorts of Software Engineering courses.

What is this course about?

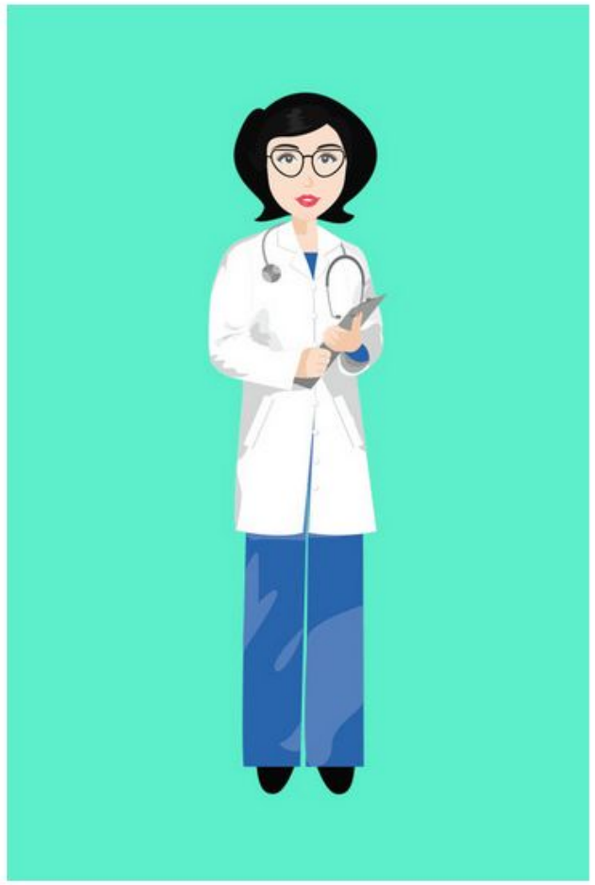
Once upon a time...



We use personalized results...

Have a look at your results!

How good are you at data analysis?



Professional: You're ready to mentor others.

You are so close to the top! You accurately interpreted most of the tasks. With a little effort, you could surpass the rest of the field.

How do you compare?

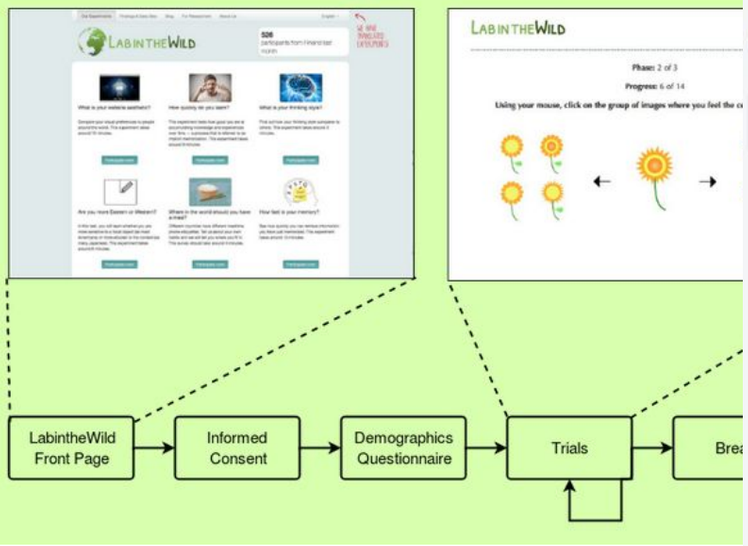
You got a score of 90%. You did better than 100% of test takers.

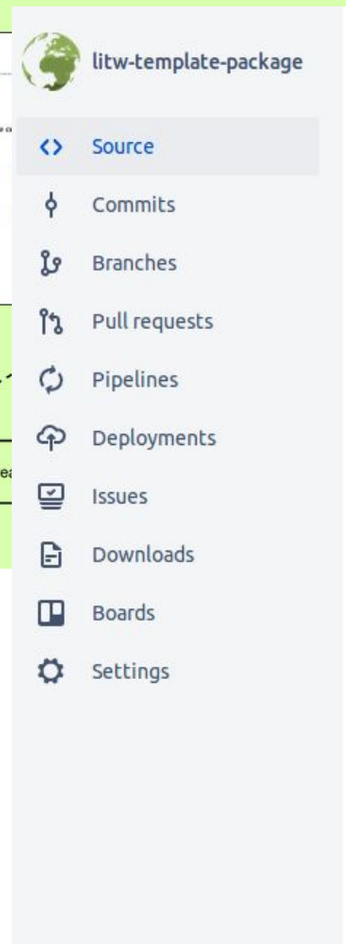
How can we help researchers?

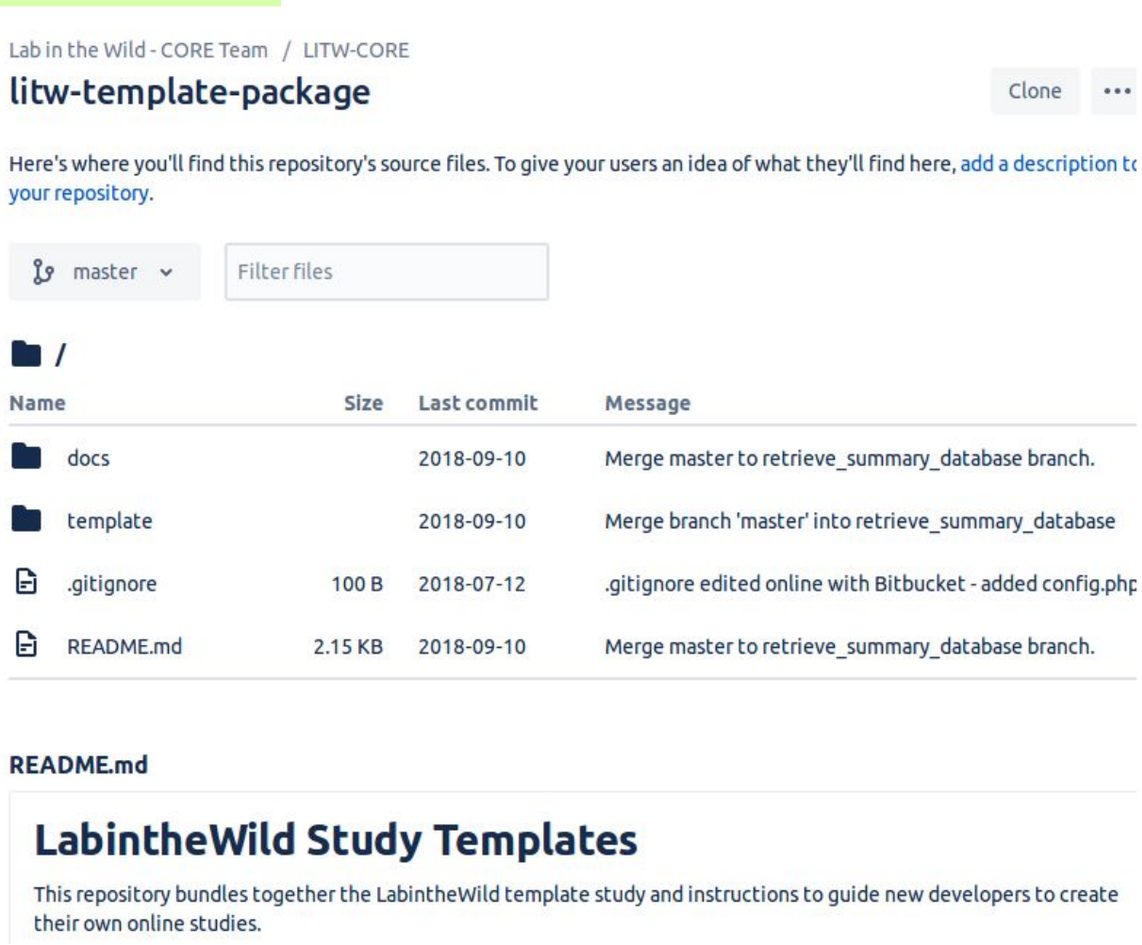
Study Example | Study Template | About

What is a common experiment flow for LabintheWild experiments?

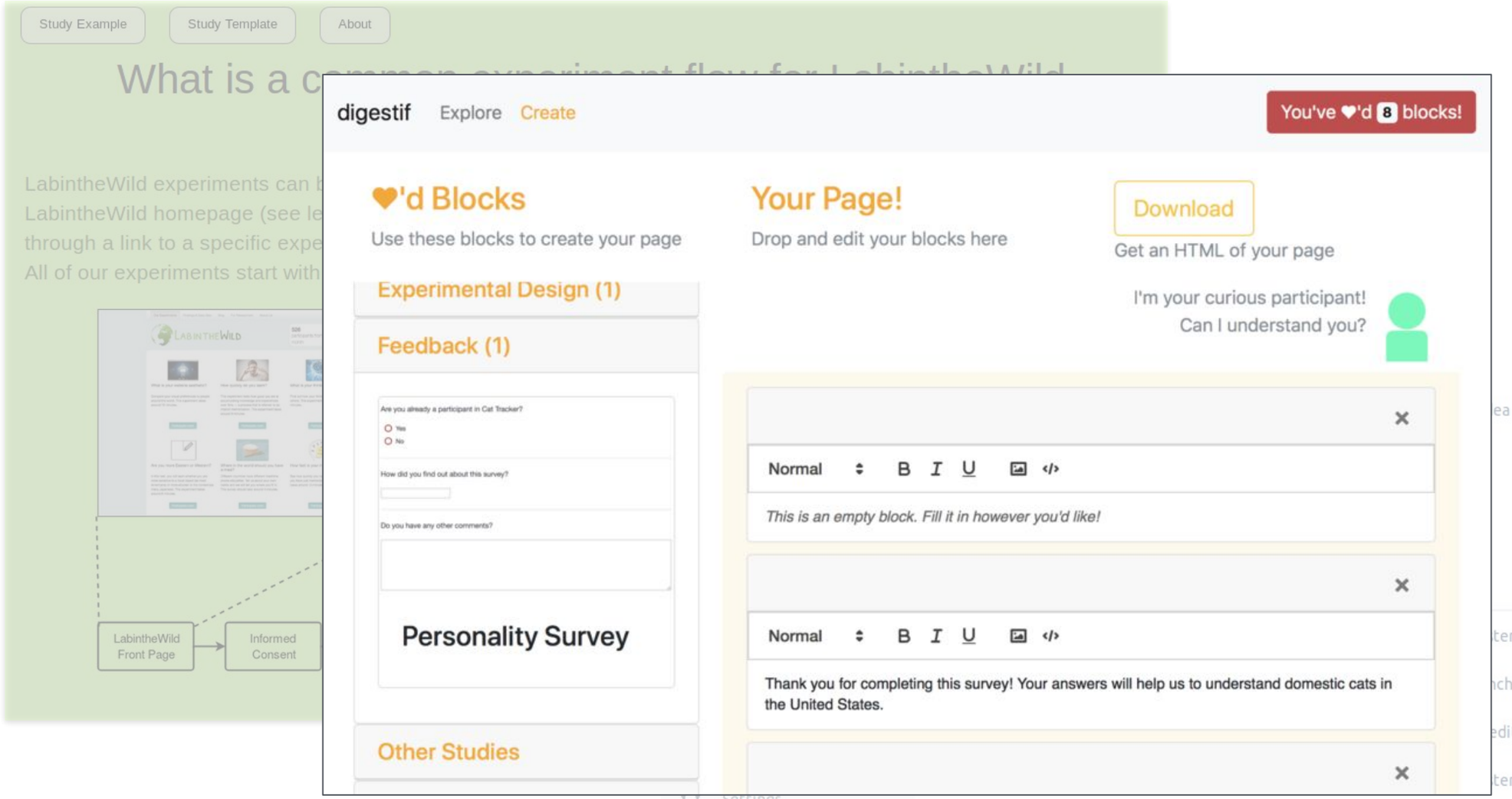
LabintheWild experiments can be accessed via the LabintheWild homepage (see left image below) or directly through a link to a specific experiment.
All of our experiments start with an informed consent page and end with personalized results. The order of the remaining parts largely depends on the type of experiment. The image below shows a very common order.



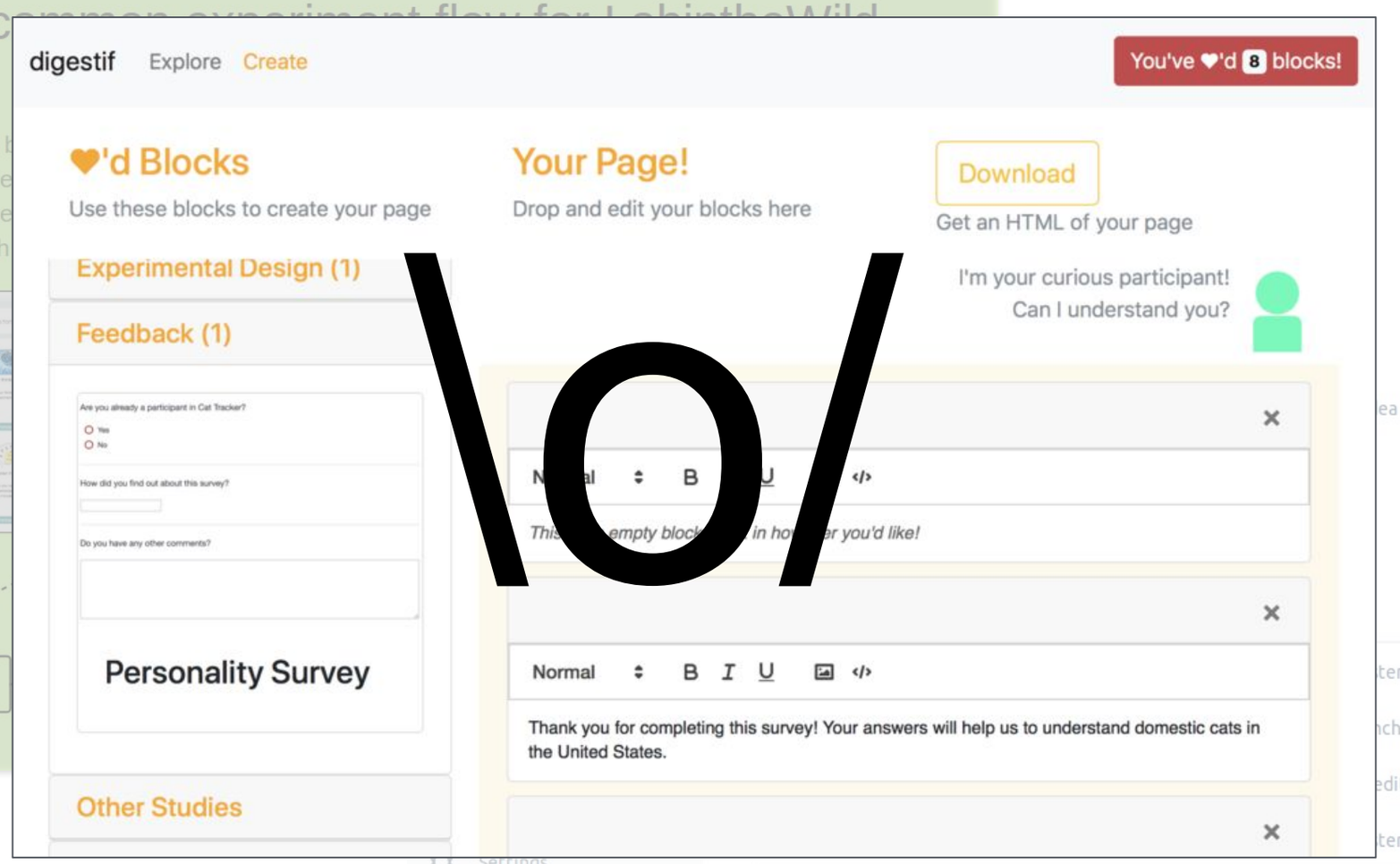




We created Digestif...

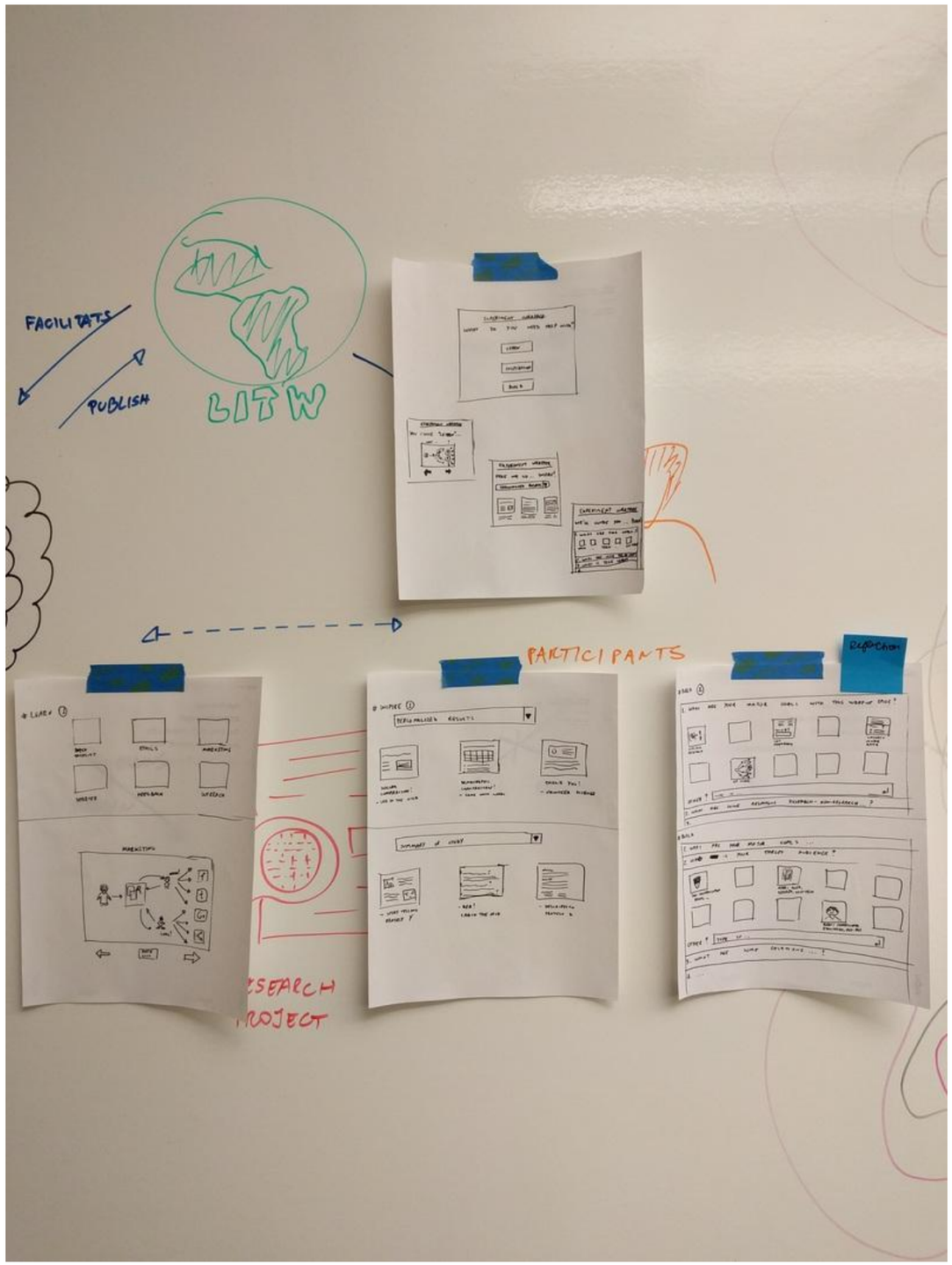


We created Digestif...

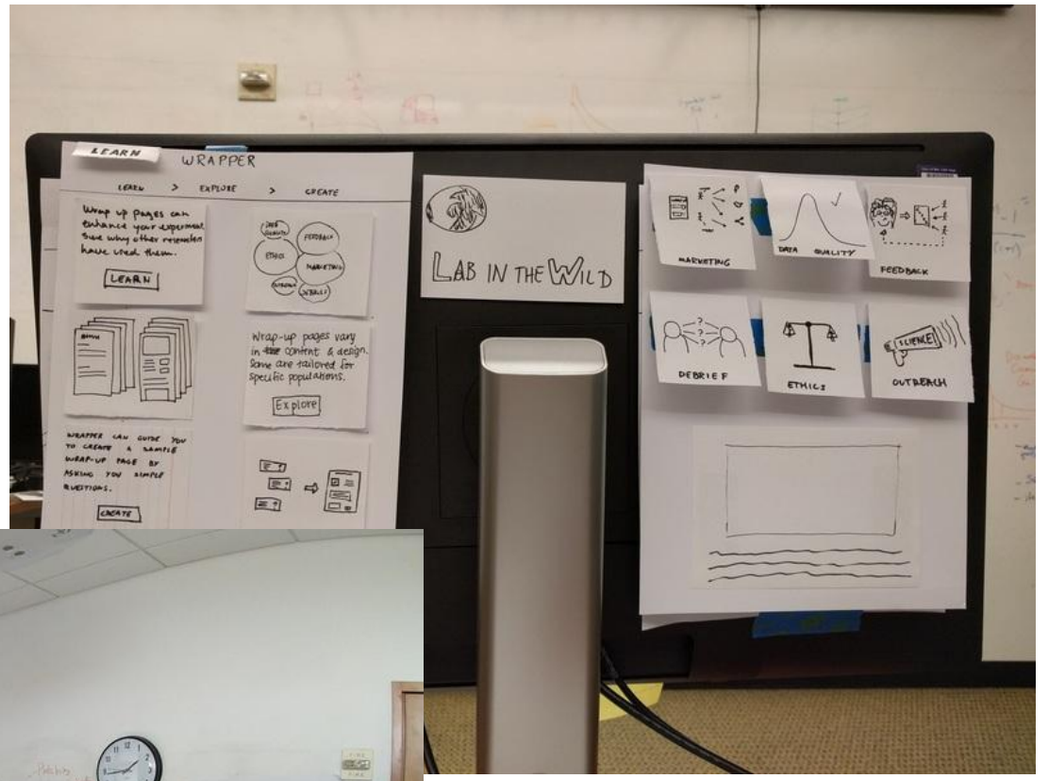


Learn about the problem.

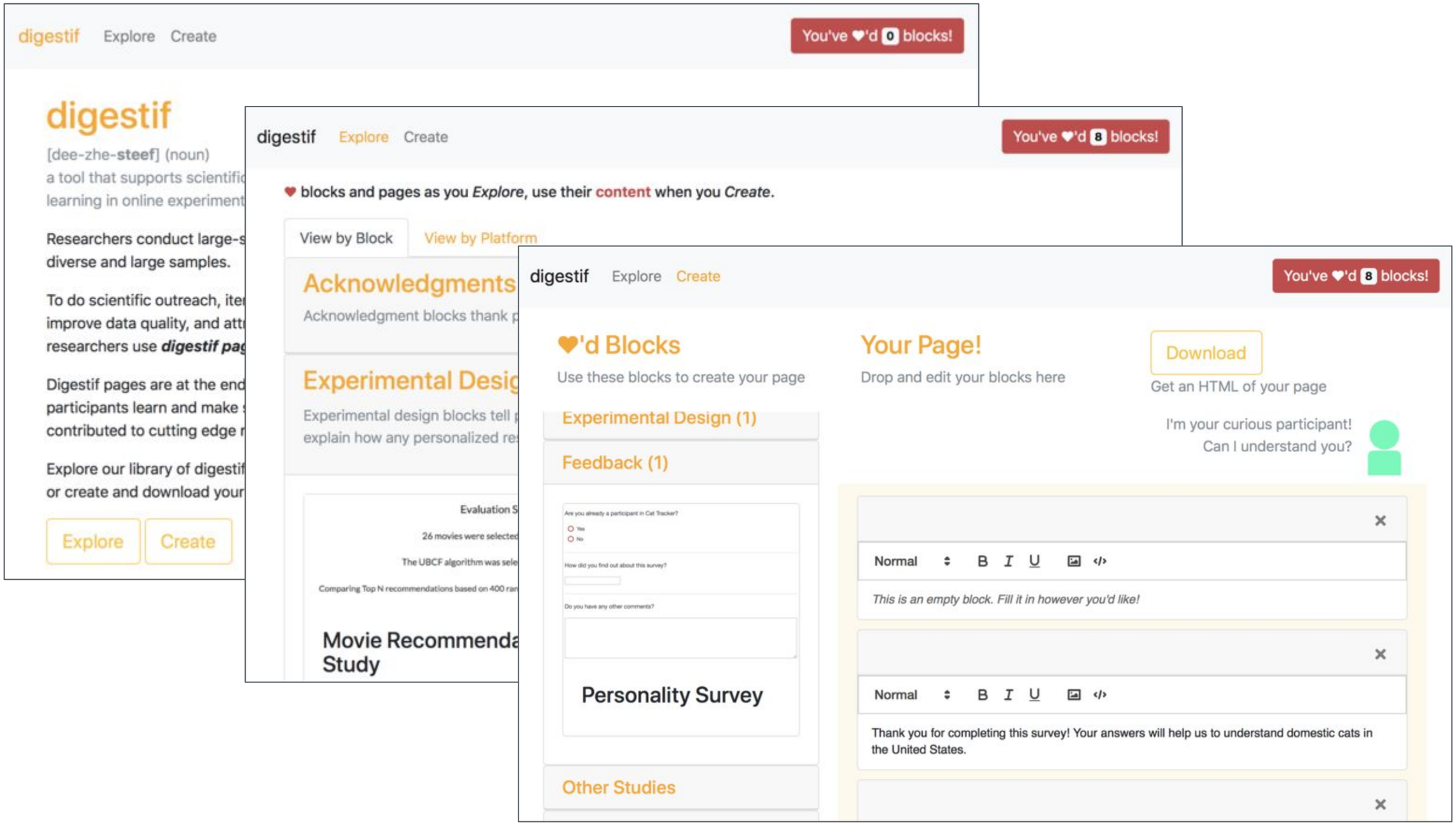
Inventing (many, many) solutions...



Prototyping and testing...



Not easy to get here!



What is this course about?

It is about reading, discussing, examining, and practicing techniques that build this design process.

Activity (10 minutes)

In groups of 2…

Redesign bulky headphones:

- What problems do you want to solve?
- How does your design solve them?

Make sure you are either addressing a **novel problem** (something nobody has tackled before) or you are contributing a **novel solution**!

Sketch out your design on a piece of paper and be prepared to show it off to the class!

What problems did you choose to solve?

What problems did you choose not to solve?

What’s your solution to those problems?

What process did you use for this activity?

What was hard and what was easy?

Anything you would do differently if you were to do this again?

“[Design is] a plan for arranging elements in such a way as to best accomplish a particular **purpose**.” Charles Eames

Core design skills

To **synthesize** a solution from all the relevant constraints

To **frame**, or reframe, the problem and objective

To create and **envision** alternatives

To **select** from those alternatives

To visualize and **prototype** the intended solution

Bill Moggridge

Iterative Human-Centered Design

This is a course about process

This is **not** an implementation course!

This is also **not** a course about “good” interfaces or rules that you should follow in design

Rapid **iteration and exploration** is the most important and effective tool for design

Learning Objectives

Understand what human-computer interaction and interaction design are

Develop skills on using design methods

Learn how to create design artifacts: scenarios, storyboards, prototypes

Think critically about design solutions

Learn how to do user testing

Communicate effective design critiques and defense

Course structure

Some **theory**

- Lectures and readings

Some **practice**

- In-class activities
- A cool project
- Participation is a critical component of the course

This course is designed around **learning together**!

Let's see how it will work: http://info360.nigini.me

Ask me something!