



CREATIVE INTERACTION DESIGN

TANG, Xuetong

How Technologies and Data Adds Value to the User Experience

Agenda

Lecture

- More about UX
- Design “X” - experience of using
- MIT Design Lab
- Six degrees of separation
- Case study: Marriott Six Degrees

Lab time

- Introduction to Bootstrap
- Setting up your personal Github pages



RECAP

End-To-End Experience
Not Features

What's Wrong With Features?

Because...

- Customers don't see the world the way engineers see it.
- Customers have **specific problems in specific contexts**, and they just want their **problems solved**.
- Technology is everywhere these days so it's natural that customers today expect more from it. They want the **solution** to work **smoothly and seamlessly**.

DESIGN “X” ?

Experience of using

DESIGN “X”

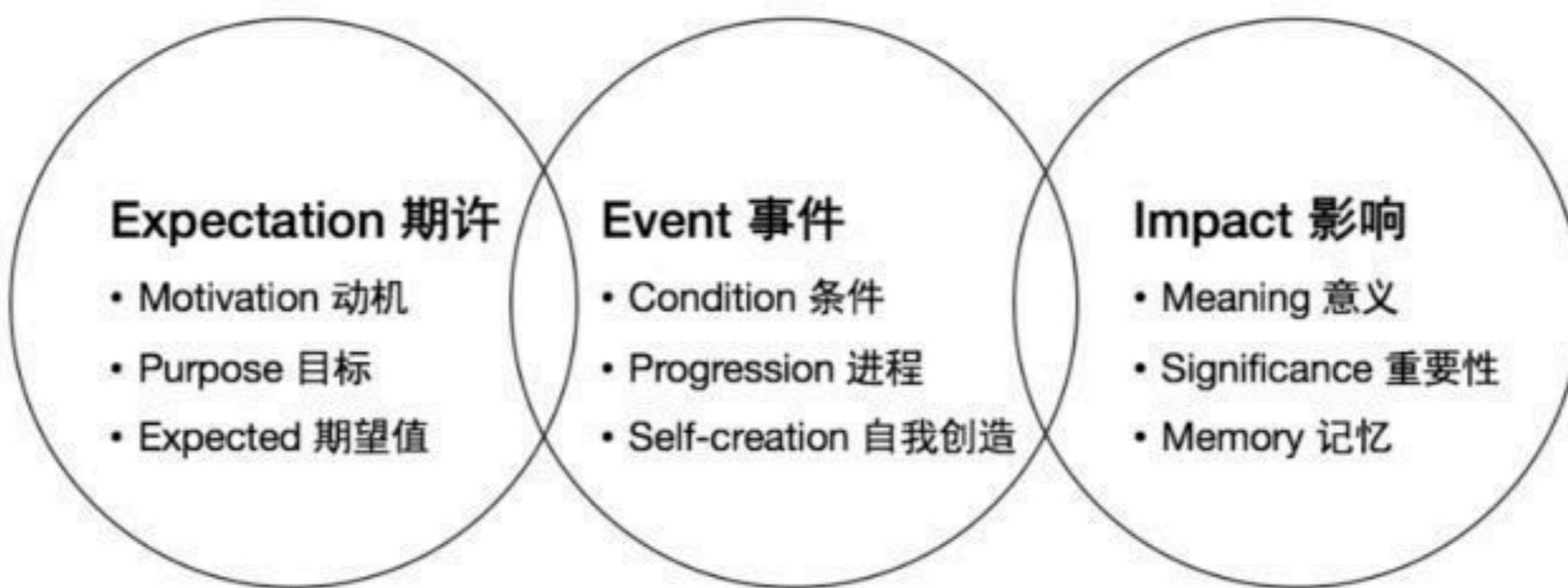
将体验作为设计对象

User Experience Is a Journey

Pre-Stage During-Stage Post-Stage



User Experience Is a Journey



EEI Experience Model (by Xin, Xiangyang)

How Technology and Data Adds Value to the User Experience

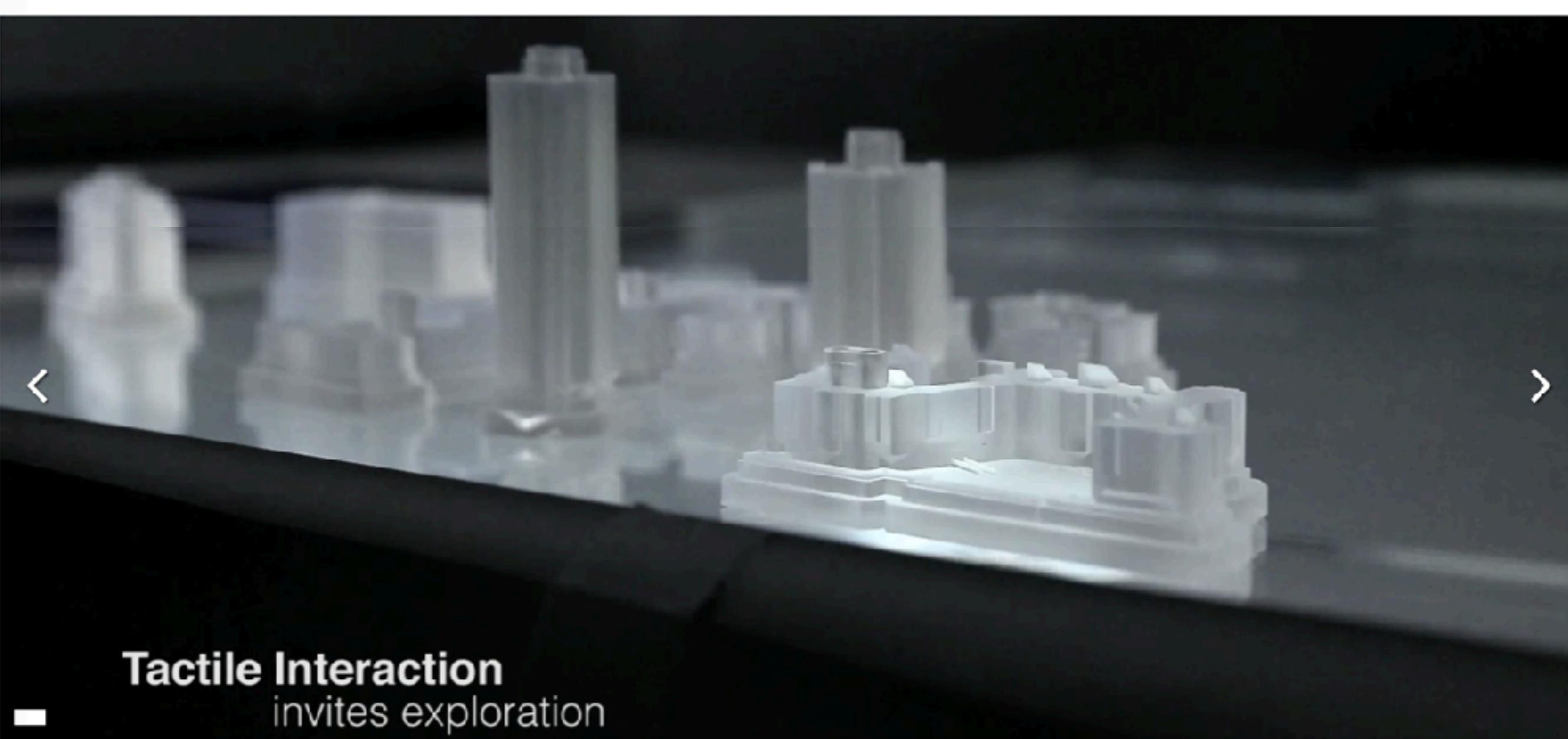
Case Study: Marriott Six Degrees



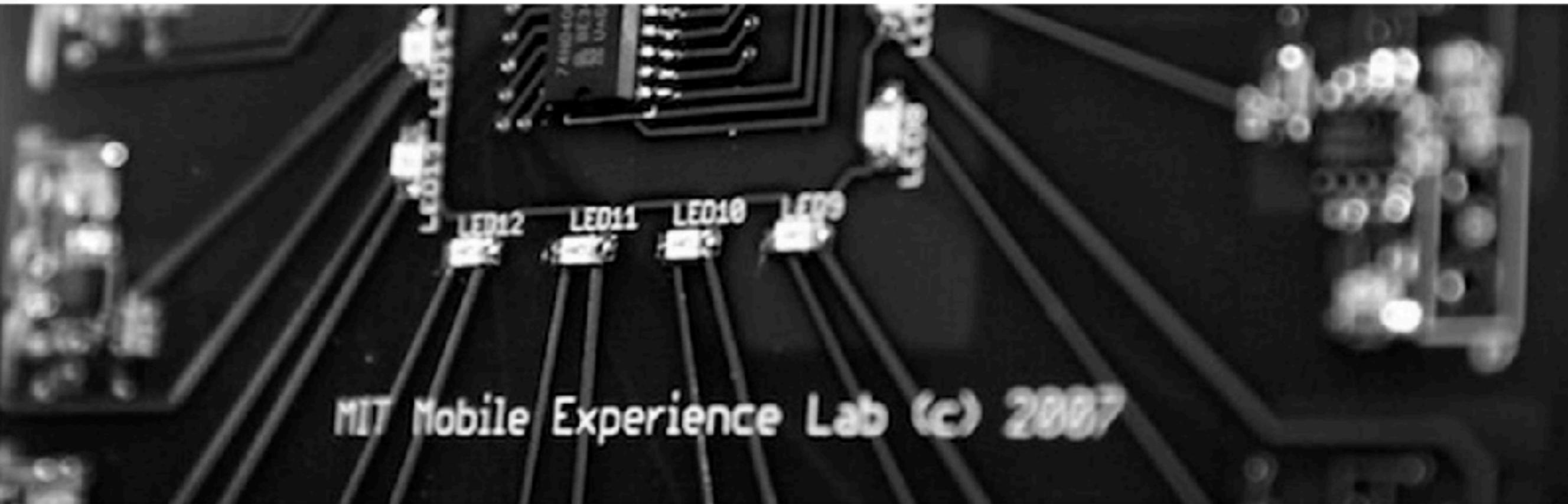
Exploring the Hotel Experience of the Future
With Marriott Hotels

Source: MIT Mobile
Experience Lab
2014

MIT Design Lab



About



MIT Design Lab

- The Design Laboratory

At MIT, the Design Laboratory exists within a context of broad-based technological innovation and builds upon the unique advantages offered by this setting.

The Laboratory is organized as a collection of multidisciplinary research and project teams unconstrained by the traditional boundaries between the design, planning, and engineering professions and disciplines.

About

MIT Design Lab

- The Design

Design plays a distinct role in advancing knowledge and creating human benefit.

It complements science and technological innovation. Designers are concerned with the social, cultural, and spatial situating of technologies so they optimally meet specific human needs.

Successful design depends upon a deep understanding of human, social, and environmental needs and their contexts...

The MIT Design Laboratory is guided by five imperatives that underscore our conception of successful design:

- **Design is making.**

Motto of MIT: Mens et manus, “mind and hand.” The work of the Design Laboratory always leverages active prototyping at all levels.

- **Design is always problem making first, and problem solving later.**

- **Design is human centered and experience based.**

“Thick data”—qualitative information about how people actually live their lives. We design technologies and services for humans, not humans for technologies. We are deeply focused on human experiences first. We design for a better world.

- **Design is about breaking the boundaries of established disciplines.**

Bring together people from multiple disciplines to see and understand the world in different ways and create totally new solutions to problems.

- **Design is aesthetically beautiful and elegant.**

The aesthetic is an important and characterizing element of design.

Balance between form and function.

Design delivers a delightful experience.

A Little Bit More About “Six Degrees of Separation”

Article / July 3, 2014



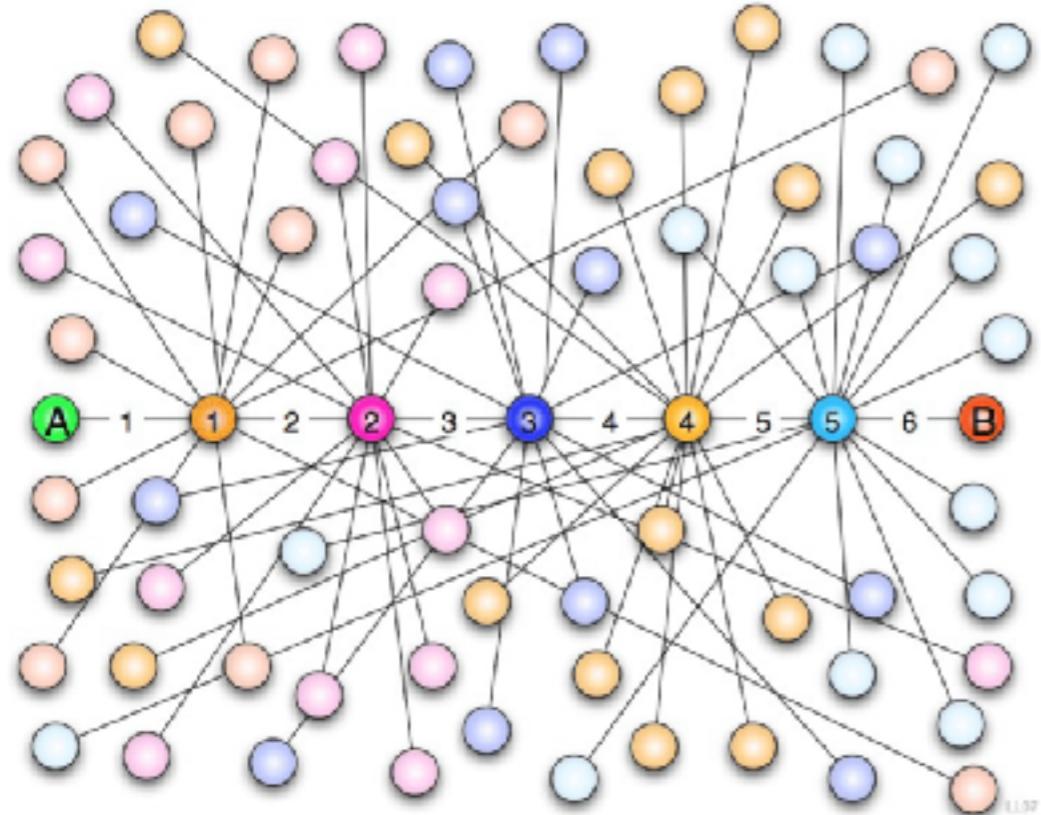
Marriott Links Up with MIT for [New Six Degrees App](#) to Accommodate High-Tech Hotel Guests



What is six degrees
(of separation) ?

六度分隔

A Little Bit More About “Six Degrees of Separation”



Six degrees of separation:
Artistic visualization by Laurens van Lieshout.

Six Degrees of Separation (六度分隔理论)

- Small world phenomenon, 世界上任何互不相识的两人，只需要很少的中间人就能够建立起联系；
- 源自哈佛大学心理学教授斯坦利·米尔格拉姆于1967年根据这个概念做过一次连锁信实验：平均只需要6步就可以联系任何两个互不相识的人。

Notes:

- 此理论仍受争议,很少有这方面的后续研究，但该理论仍然得到广泛应用；
- Facebook研究成果：Facebook在2016年通过研究15.9亿使用者资料，公布标题为Three and a half degrees of separation的研究结果，“网络直径”降4.57，即每个人与其他人间隔为4.57人。若仅考虑美国使用者，这个数字会降到平均3.46个人。

Source: <https://zh.wikipedia.org/wiki/%E5%85%AD%E5%BA%A6%E5%88%86%E9%9A%94%E7%90%86%E8%AE%BA>

Now Let's Begin With the Case Study

Case Study: Marriott Six Degrees



<https://vimeo.com/85931411>

Case Study: Marriott Six Degrees

Exploring the hotel experience of the future:

A collaboration between the MIT Mobile Experience Lab
and
Marriott Hotels



Client: Marriott Hotels

Travelers are often busy, disconnected and tired when on business trips.

Objective: To improve the guest experience at its 500 locations around the world by getting more strangers at the hotel interacting in real time.

Case Study: Marriott Six Degrees

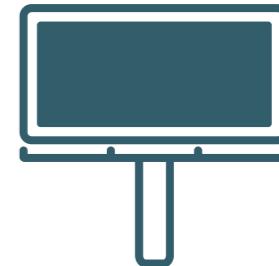
Outcomes: Six Degrees is a prototype social network which works by highlighting the connections hotel guests have with each other.



+



+



the mobile app

the interactive table

the public display

Case Study: Marriott Six Degrees

Research:

- Field study / Contextual inquiry (实地研究 / 情境调查)
- A wealth of research done previously by students



Source: MIT Mobile Experience Lab

Case Study: Marriott Six Degrees

Persona (人物角色 / 用户画像)



Frequent Business Traveler

- Staying in their hotel room is common when traveling for business, but it could get lonely and tiresome.
- Frequent travelers often run into the same people at different cities.



Gen Y Traveler

Gen Y / Millennials - 1977-1997出生 年轻一代
Gen X - 1965-1976出生 中年一代
Baby Boomers - 1946-1964出生 老年一代
Your generation?

Source: Harvard Business School

- Seeking personalized yet serendipitous experiences, good company to share them with, and the ability to capture and celebrate them.
- Avid social explorer, but avoiding awkwardness

Image source: Marriott hotel website

Source: MIT Mobile Experience Lab

Case Study: Marriott Six Degrees

Persona (人物角色 / 用户画像)



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Gen Y / Millennials - 1977-1997出生 年轻一代
Gen X - 1965-1976出生 中年一代
Baby Boomers - 1946-1964出生 老年一代
Gen 2020 - born after 1997

Source: Harvard Business School

Case Study: Marriott Six Degrees



Source: MIT Mobile Experience Lab

Insights: Research showed the importance of **indirect connections**, **privacy** and the power of **shared interests** and **alma maters**.

Question: How might we make Marriott guests feel like **nodes within a network** while **avoiding awkwardness** and encouraging interactions in the lobby space?

Case Study: Marriott Six Degrees

Ideation: Brainstorm



Source: MIT Mobile Experience Lab

Case Study: Marriott Six Degrees

Ideation: Storyboard (故事版)

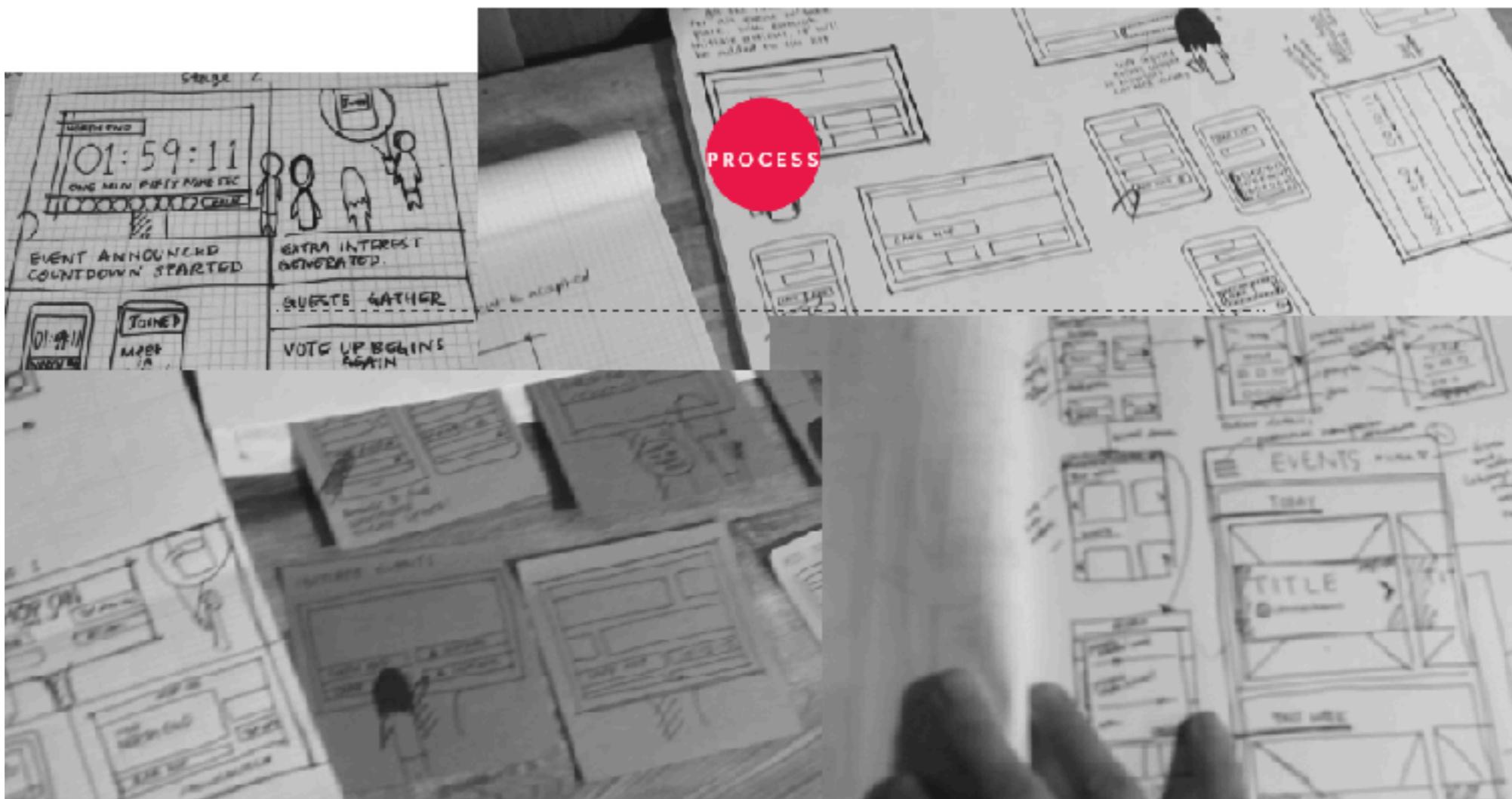
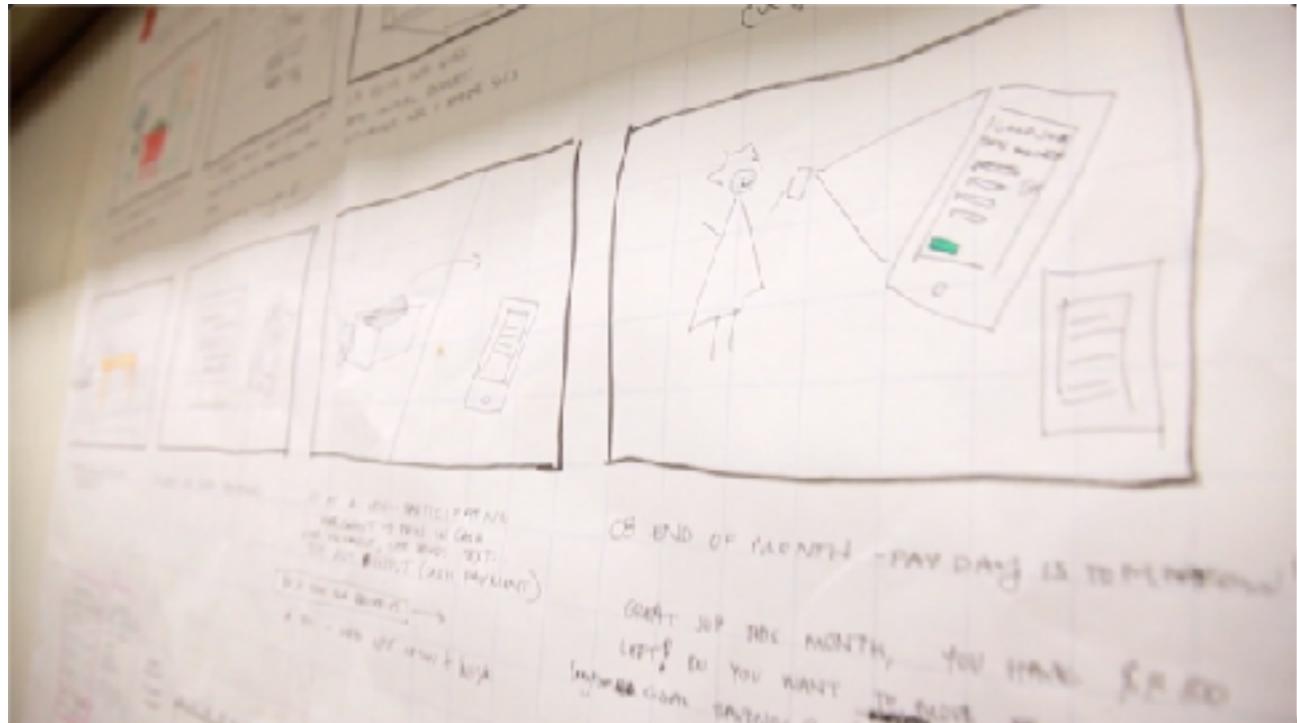


Image by Stephanie Nayoun

Case Study: Marriott Six Degrees

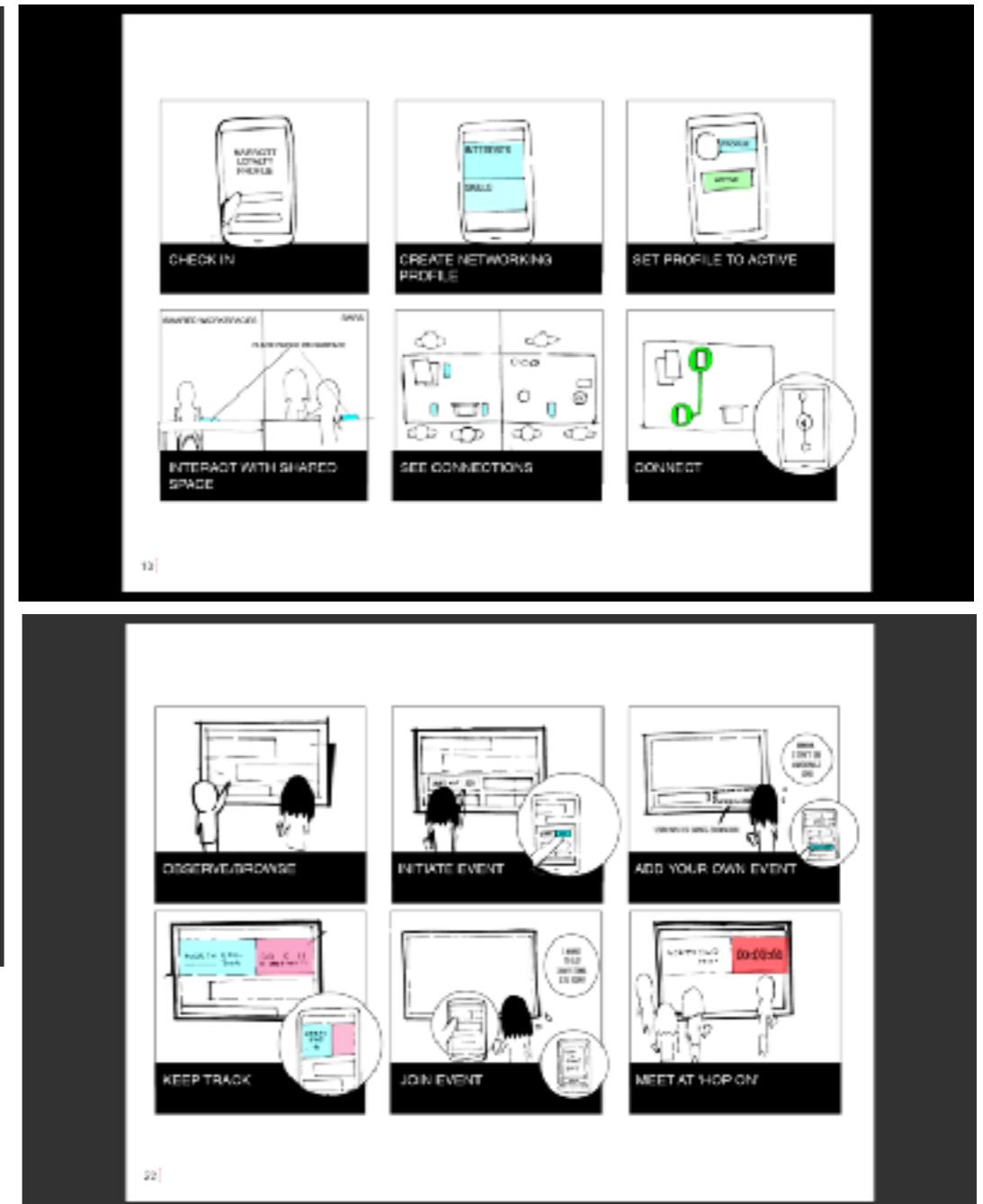
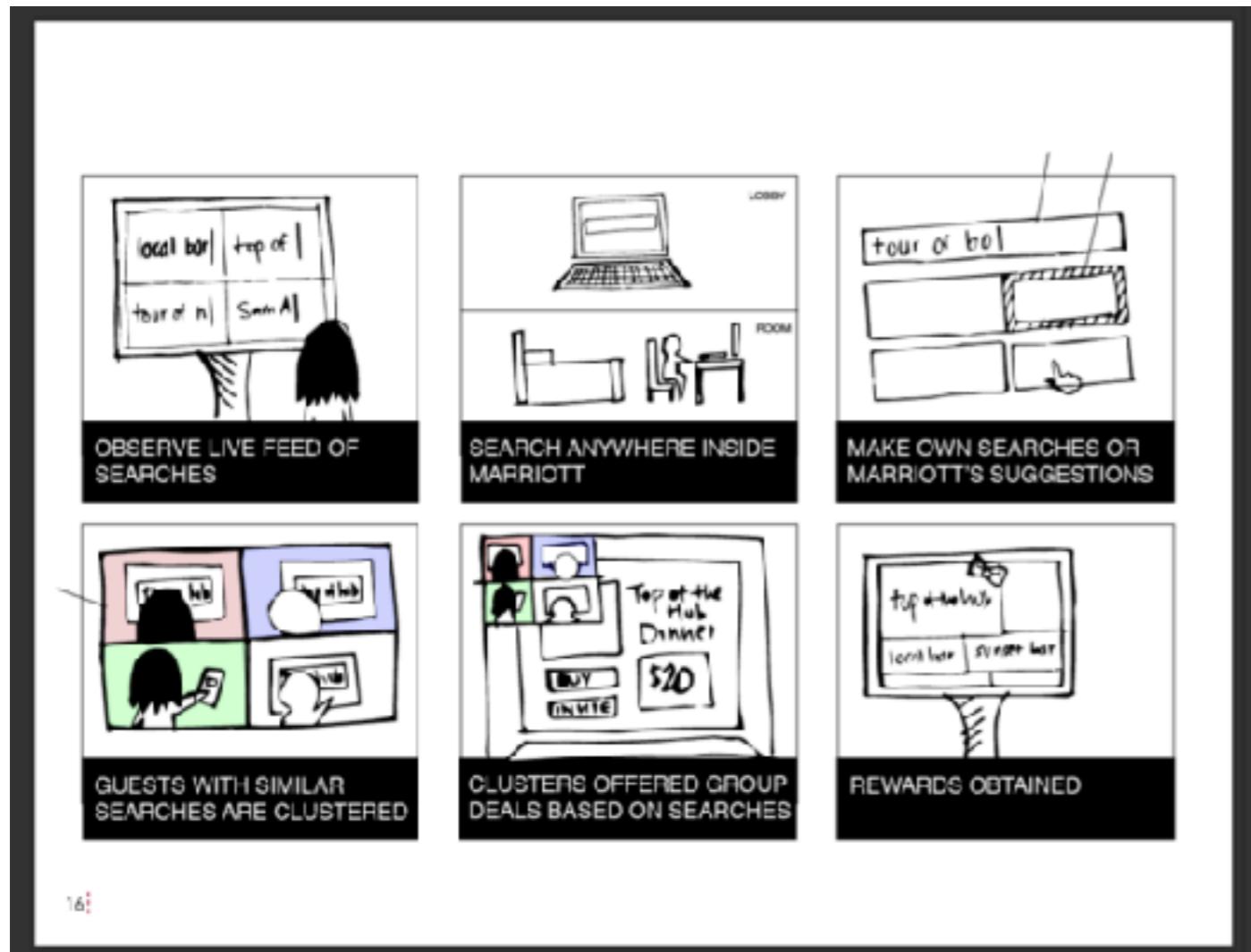


Ideation: Storyboard (故事版) -sketching



Source: MIT Mobile Experience Lab

Case Study: Marriott Six Degrees

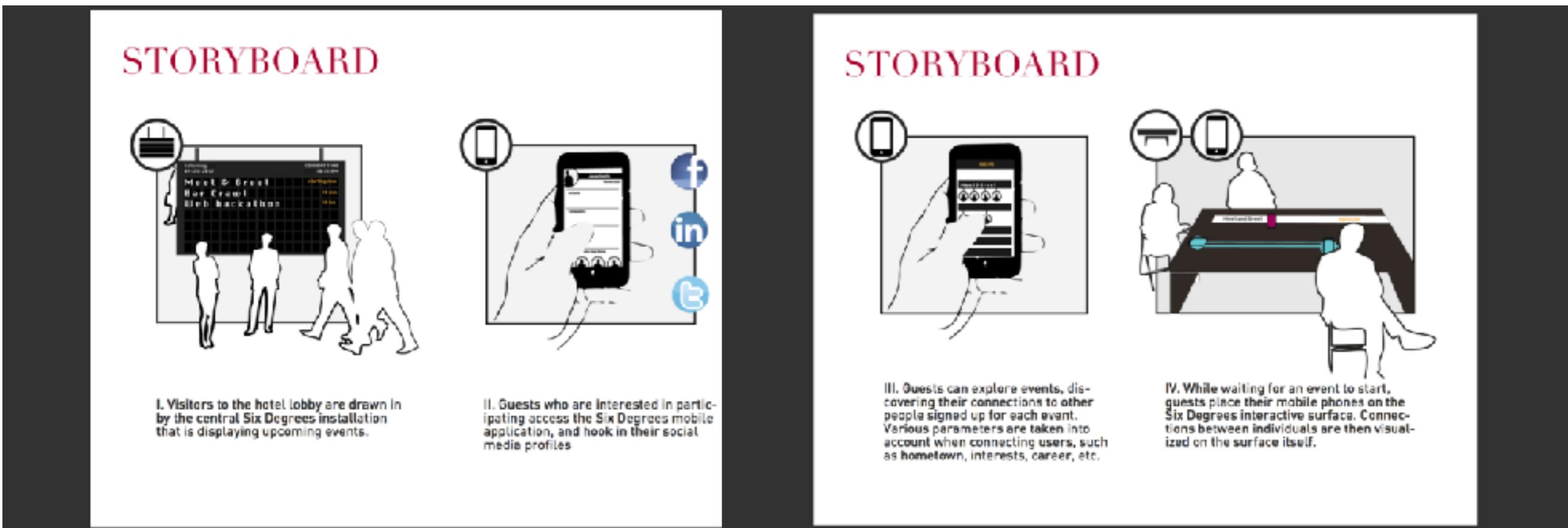


Ideation: Storyboard (故事版)
-sketching

Image by Stephanie Nayoun

Case Study: Marriott Six Degrees

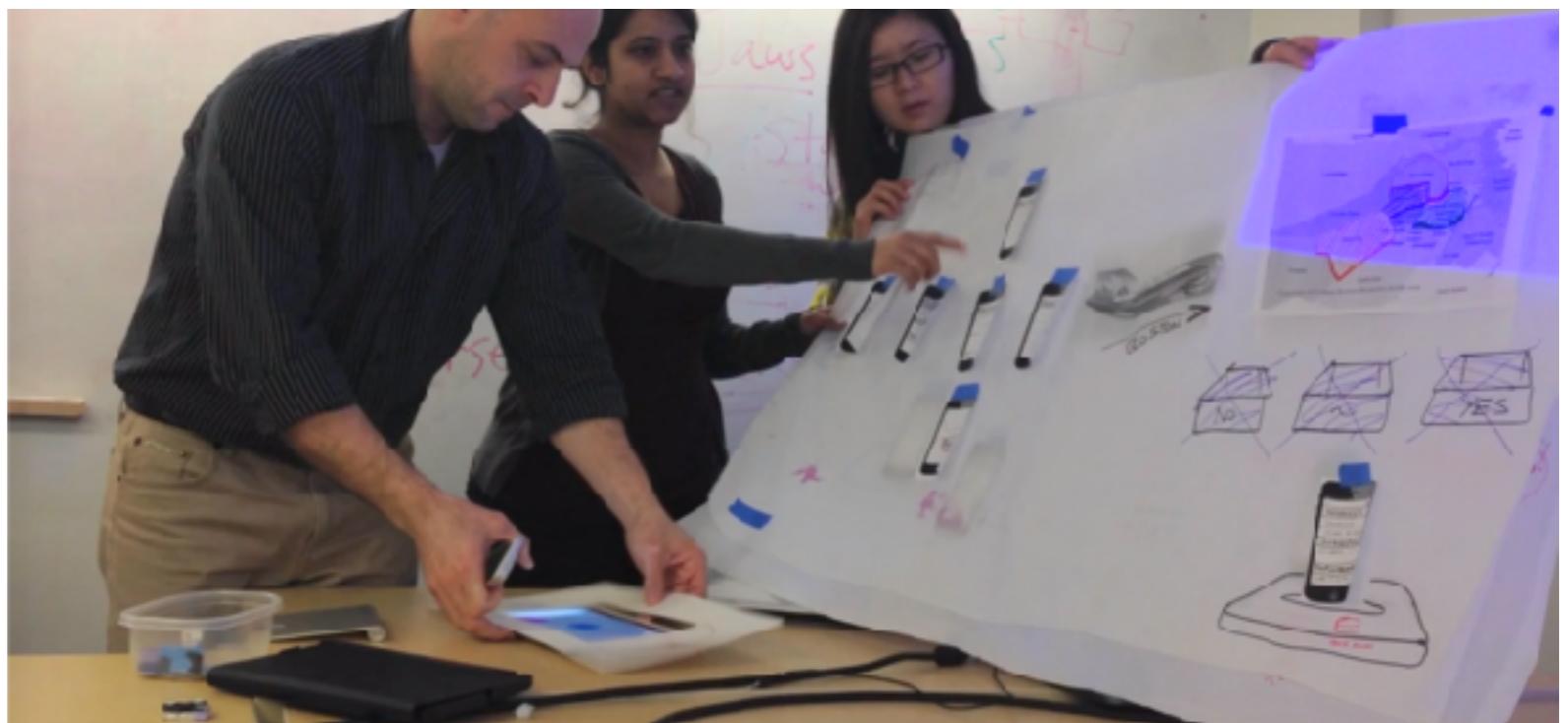
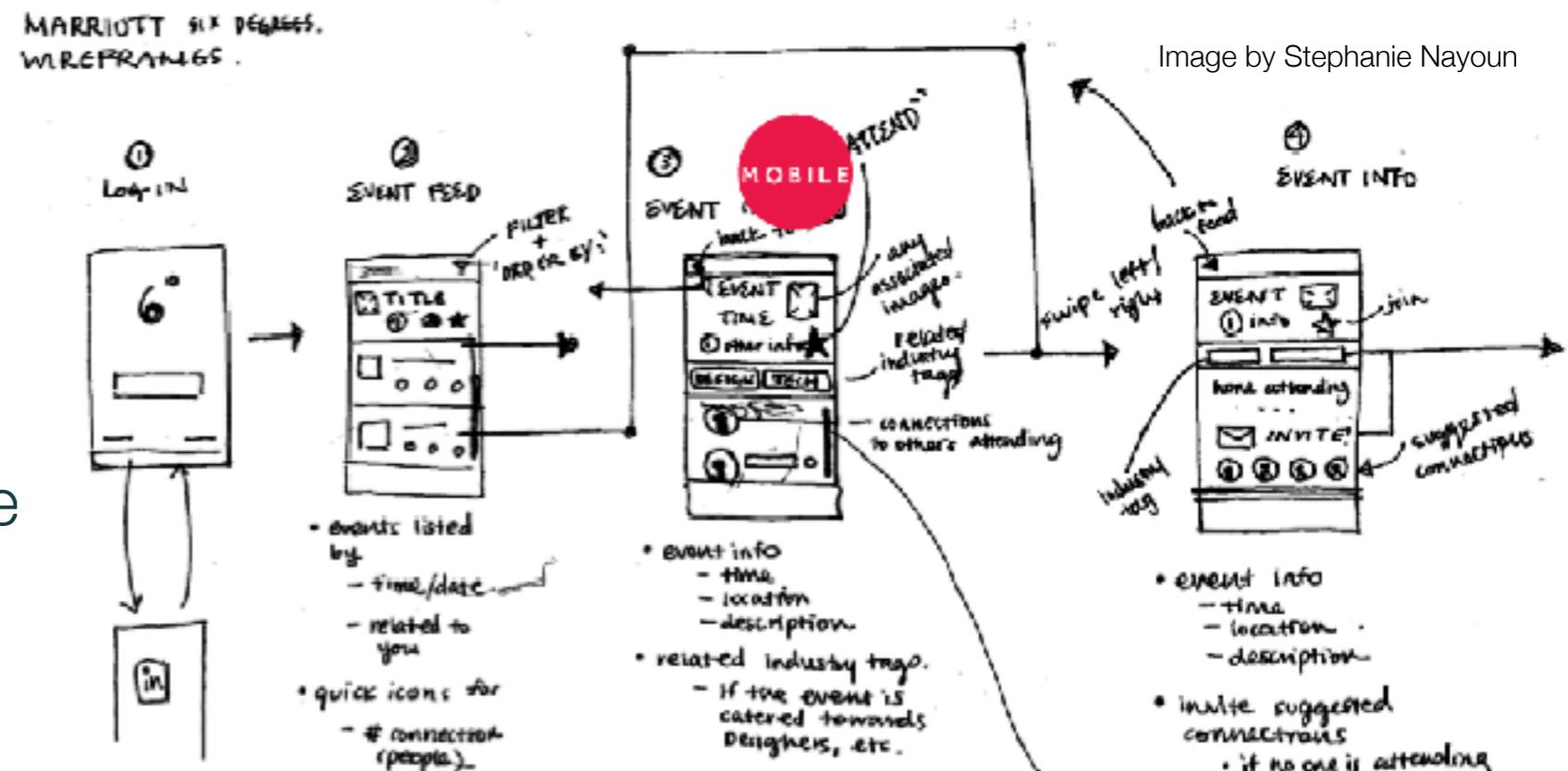
Prototype: storyboard - solution



Case Study: Marriott Six Degrees

Prototype: Mobile App
-paper prototype

Low Fidelity



Case Study: Marriott Six Degrees

Prototype: Mobile App - wireframe (线框图)

The image displays three wireframes of the Marriott Six Degrees mobile app prototype, showing the user flow from setup to profile creation.

Set-Up (Step 1 of 3): This screen introduces the "How it works..." feature, which connects Hometown, Schools, Work & Skills, and Interests through commonalities. It includes sections for Hometown (Find friends through commonalities), Schools (Find friends from your colleges), Work & Skills (Connected through common work fields), and Interests (Connect through similar interests). Each section has a blue circular icon and social media integration icons (Twitter, Facebook, LinkedIn, etc.). A "SKIP" button is at the bottom left, and a "Next" button with a checkmark and a right arrow is at the bottom right.

Your Information: This screen shows the input fields for the user's information. The "Hometown" field is populated with "Boston, MA". The "Schools" section lists "MIT 2011-2013" and "U. Nebraska 2003-2007". The "Work & Skills" section shows "MIT Mobile ... 2013-". Below these fields is a virtual keyboard.

Your Profile: This screen displays the final profile summary for "David B.". It includes the Hometown ("Boston, MA"), Schools ("MIT 2011-2013, U. Nebraska 2003-2007"), Work & Skills ("MIT Mobile ... 2013-"), and Interests ("Hiking, Design, Architecture"). The profile is fully connected by lines between the icons. Navigation tabs at the bottom include "Events", "People", and "Profile".

Check off the social sites you want to use to build your profile.

Once checked, Six Degrees will create your profile.

Understand how different social sites relate to your personal profile.

A user profile is "seeded" through existing social media sites. Then, the user can edit, add, and remove information as they please.

Image by Stephanie Nayoun

Prototype: Mobile App - wireframe (线框图)

The wireframe illustrates a mobile application interface divided into four quadrants by a dashed line, with a central red circle containing the word "MOBILE".

- Top Left Quadrant:** Displays the "Events" screen. It shows two event cards: "Mobile Hackathon" (7:00pm, Marriott Event Space) and "Pub Crawl" (9:00pm tomorrow, Marriott Event Space). Below the cards are three navigation tabs: "Events", "People", and "Profile".
- Top Right Quadrant:** Displays the "Mobile Hackathon" event details screen. It shows the event name, time, location, and a "Join" button. Below the card are three navigation tabs: "Events", "People", and "Profile".
- Bottom Left Quadrant:** Displays the "Set-Up" screen. It includes a "How it works..." section with icons for Hometown, Schools, Work & Skills, and Interests, each with a brief description. Below this is a QWERTY keyboard. At the bottom are three navigation tabs: "Events", "People", and "Profile".
- Bottom Right Quadrant:** Displays the "Your Profile" screen for a user named "David B.". It shows profile information (Hometown: Boston, MA; Schools: MIT 2011-2013, U. Nebraska 2008-2007; Work & Skills: MIT Mobile ... 2013-; Interests: Hiking, Design, Architecture), a "Connections" section (John D. from Boston, MA, works as a Developer at Startuply), and three navigation tabs: "Events", "People", and "Profile".

Central Red Circle: Contains the word "MOBILE".

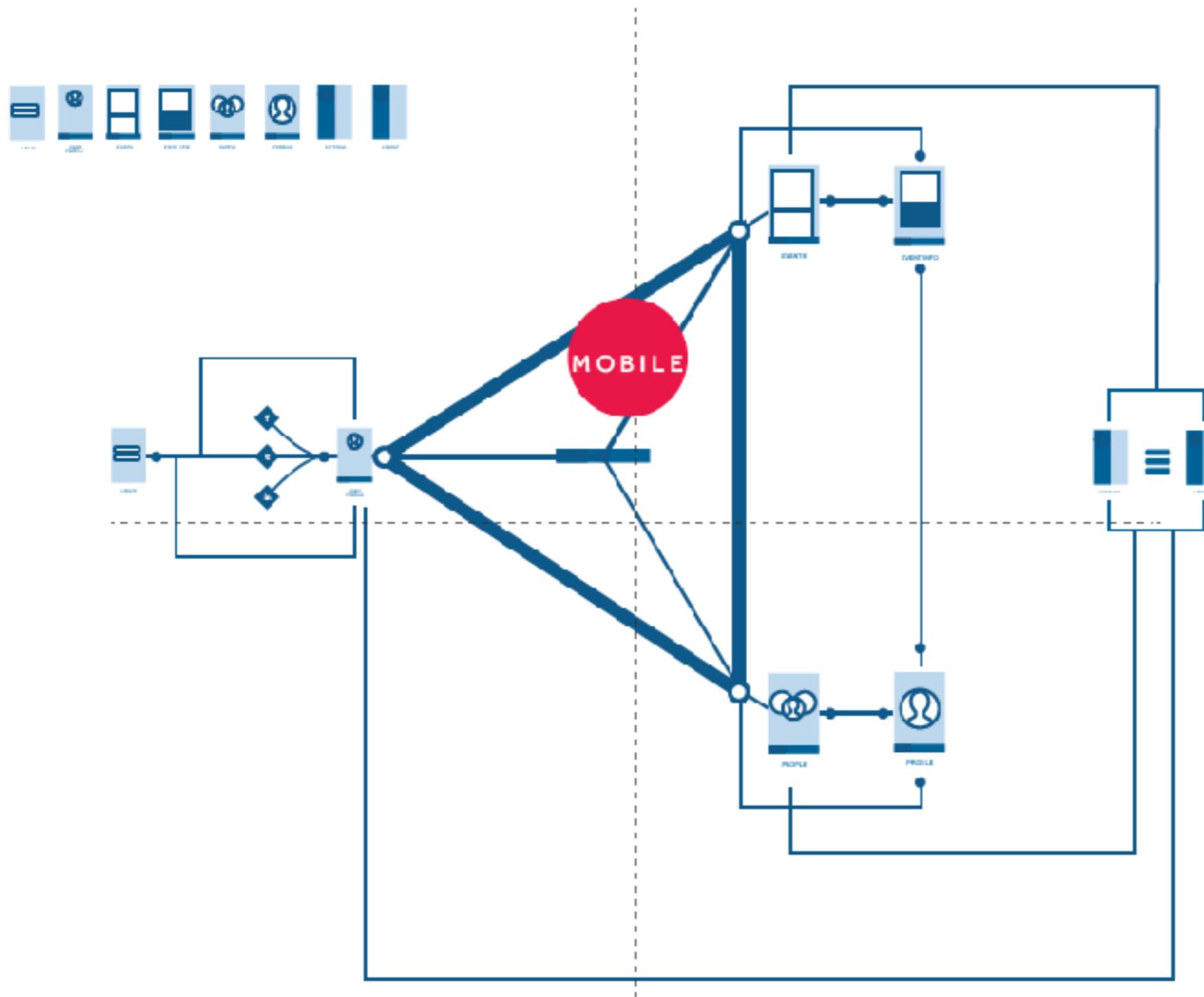
Legend:

- FILTER T**: Functionality to change the sort order of results by "Committed" or "Chronological".
- 88**: Quickly see relevant events included in your community or other people attending.
- 5**: A marker for events that you have decided to join or tag.
- Checkmark icon**: Check off the social sites you want to use to build your profile.
- Blue arrow icon**: Once checked, Six Degrees will create your profile.
- Info icon**: Understand how different social sites relate to your personal profile.
- User icon**: User posts is "seeded" through existing social media sites. Then, the user can edit, add, and remove information as they please.
- Profile icon**: Profiles share relevant information about a person, giving an idea of who someone is connected to.

Image by Stephanie Nayoun

Case Study: Marriott Six Degrees

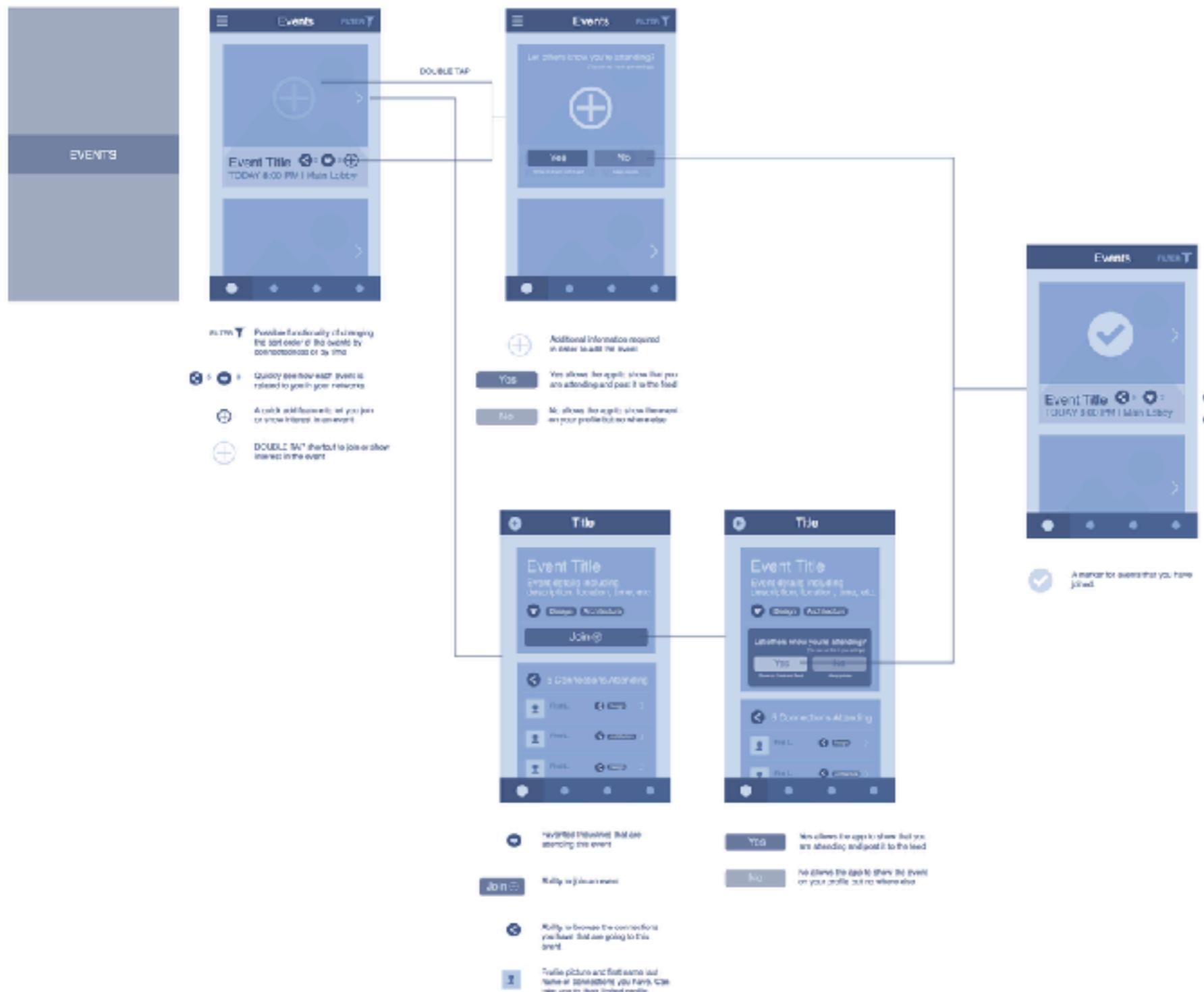
Prototype: Mobile App - sitemap (站点地图 / 网站地图)



Notes: SITEMAP is used to show the **flows and architecture** of the system.

Case Study: Marriott Six Degrees

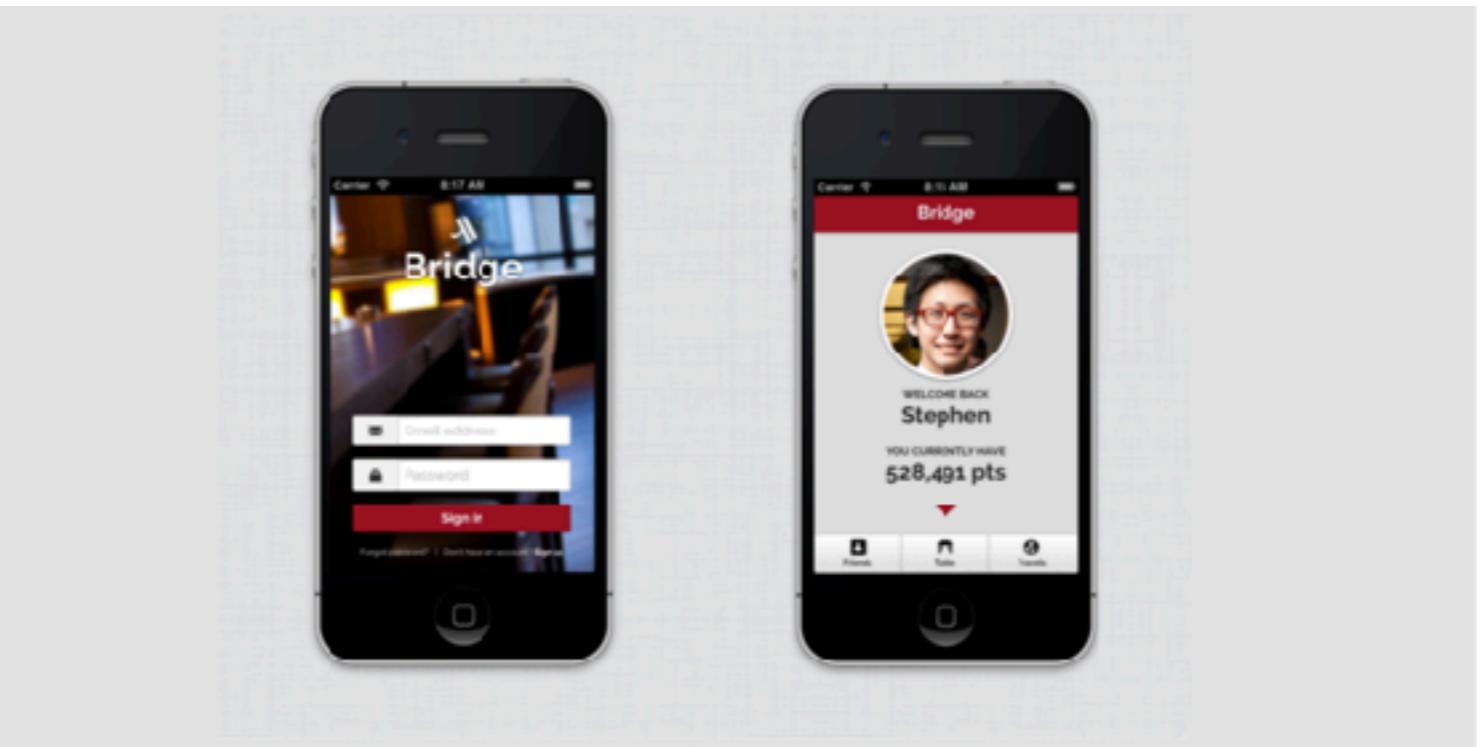
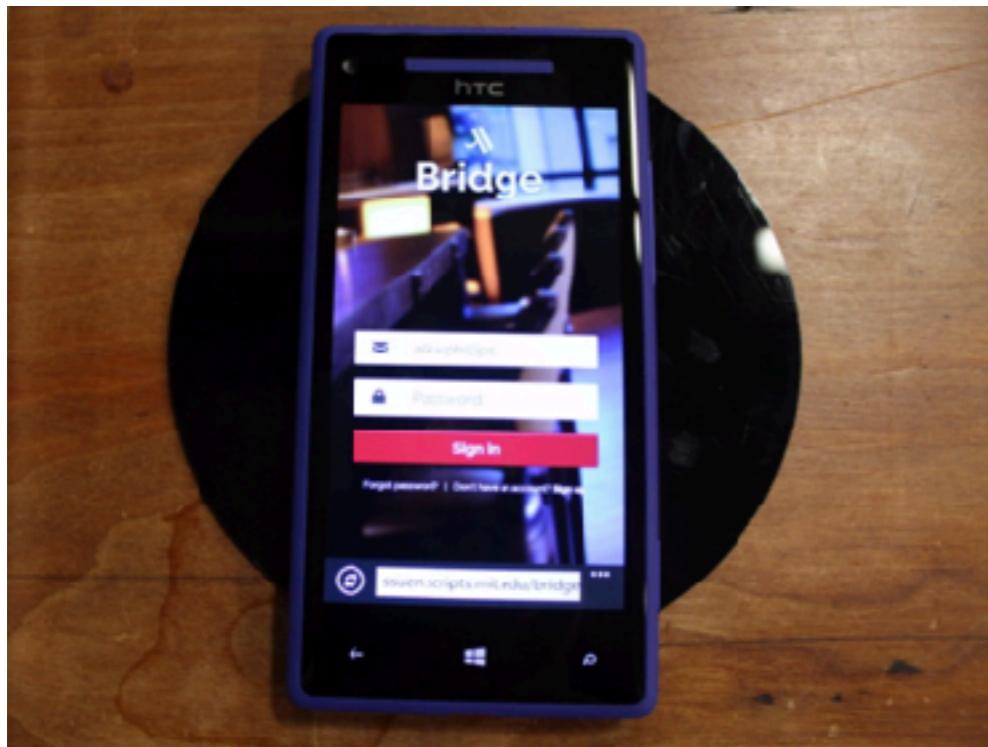
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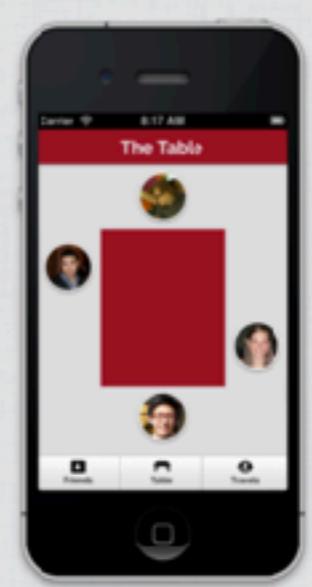
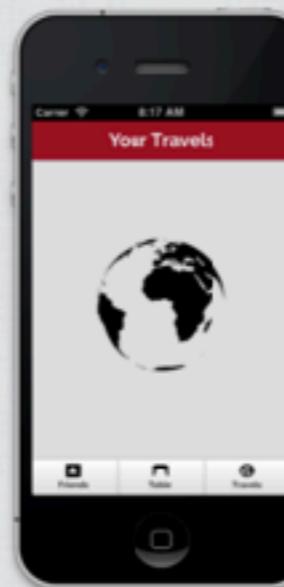
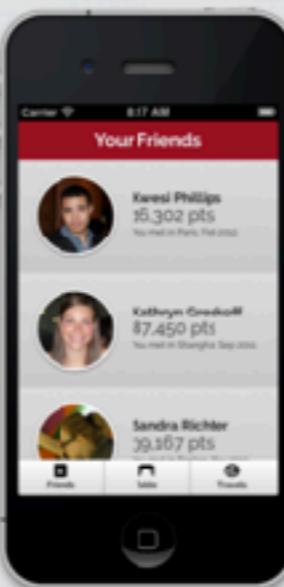
Case Study: Marriott Six Degrees

Prototype: Mobile App - digital mockup



**MOCK-UP
DIGITAL EXPERIENCE**

High Fidelity



Source: MIT Mobile
Experience Lab

Case Study: Marriott Six Degrees

Prototype: Interactive table
- digital design

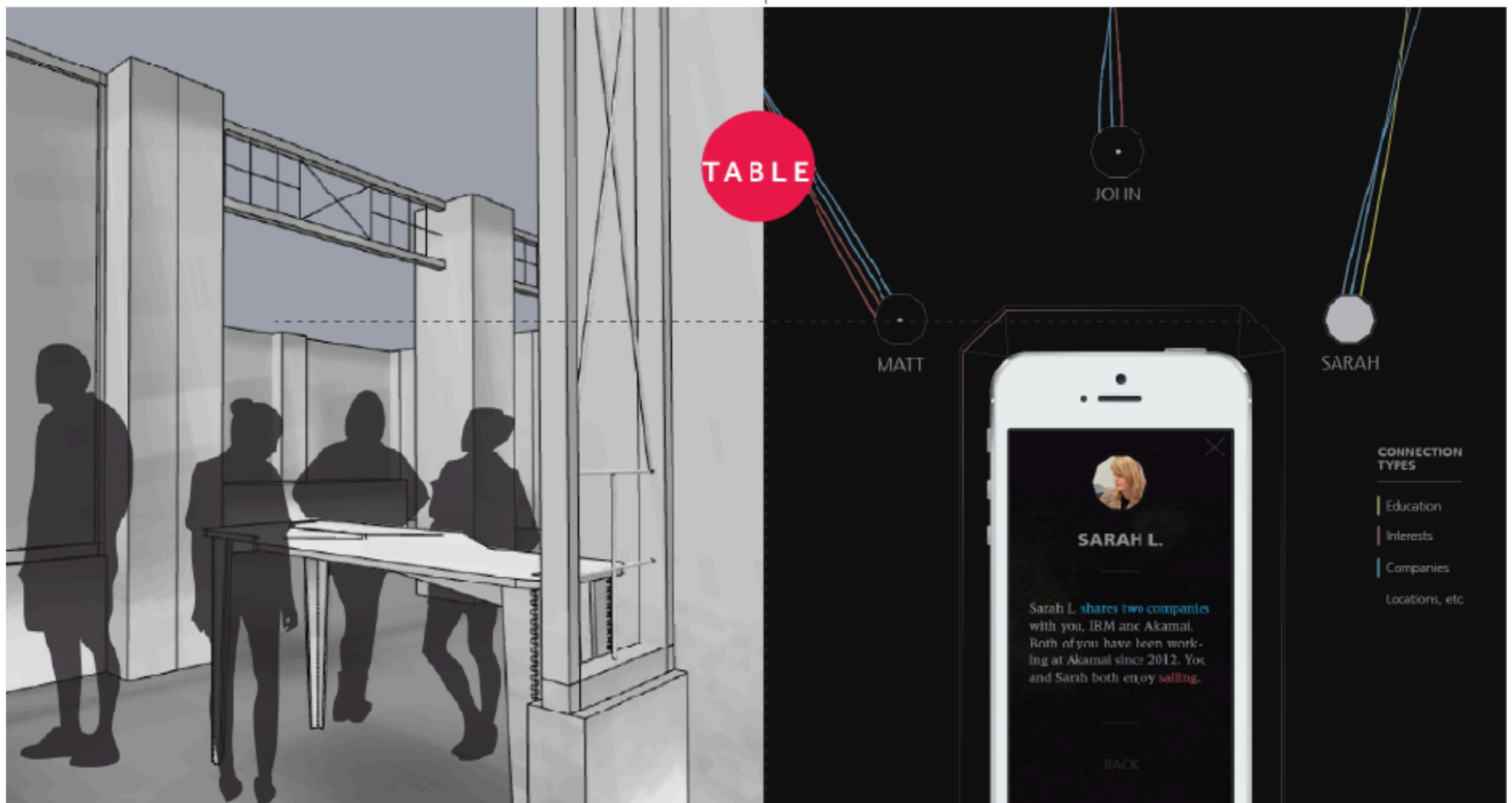


Image by Stephanie Nayoun

Case Study: Marriott Six Degrees

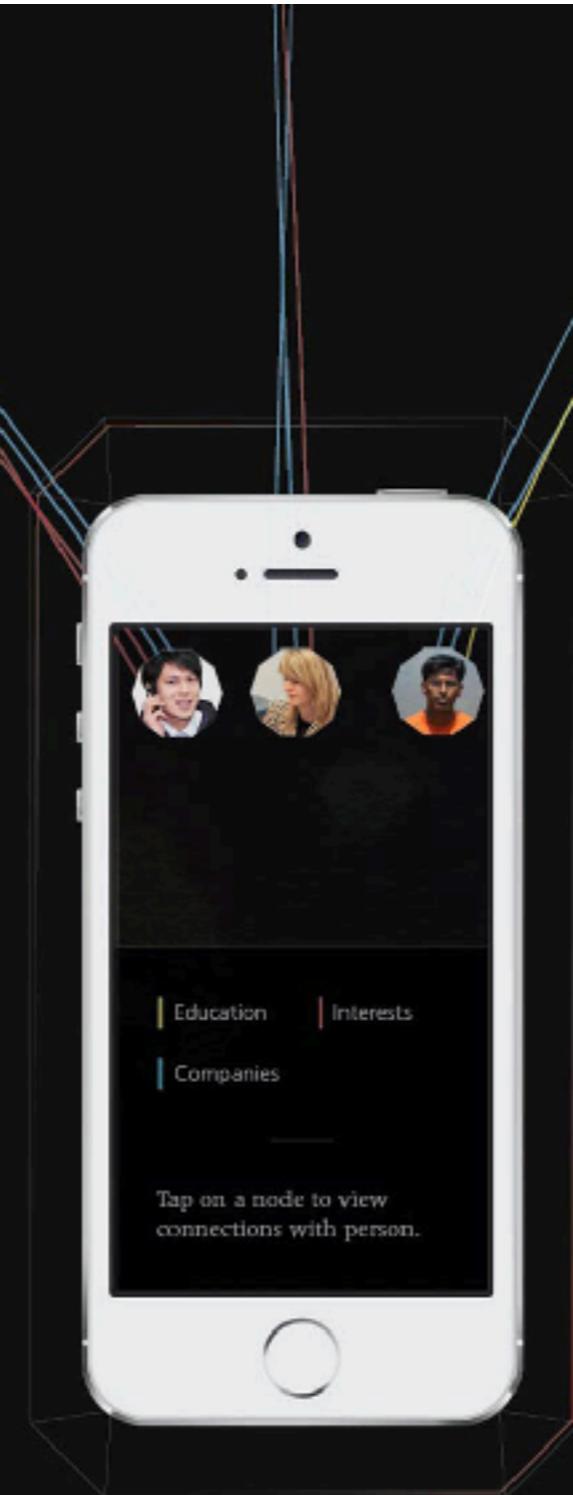
Table and phone interaction
with nodes outside

Prototype: Interactive table
- digital design

By Andrew Johnson

Case Study: Marriott Six Degrees

Table and phone interaction
with profiles actions moving in
to the phone



Prototype: Interactive table
- digital design

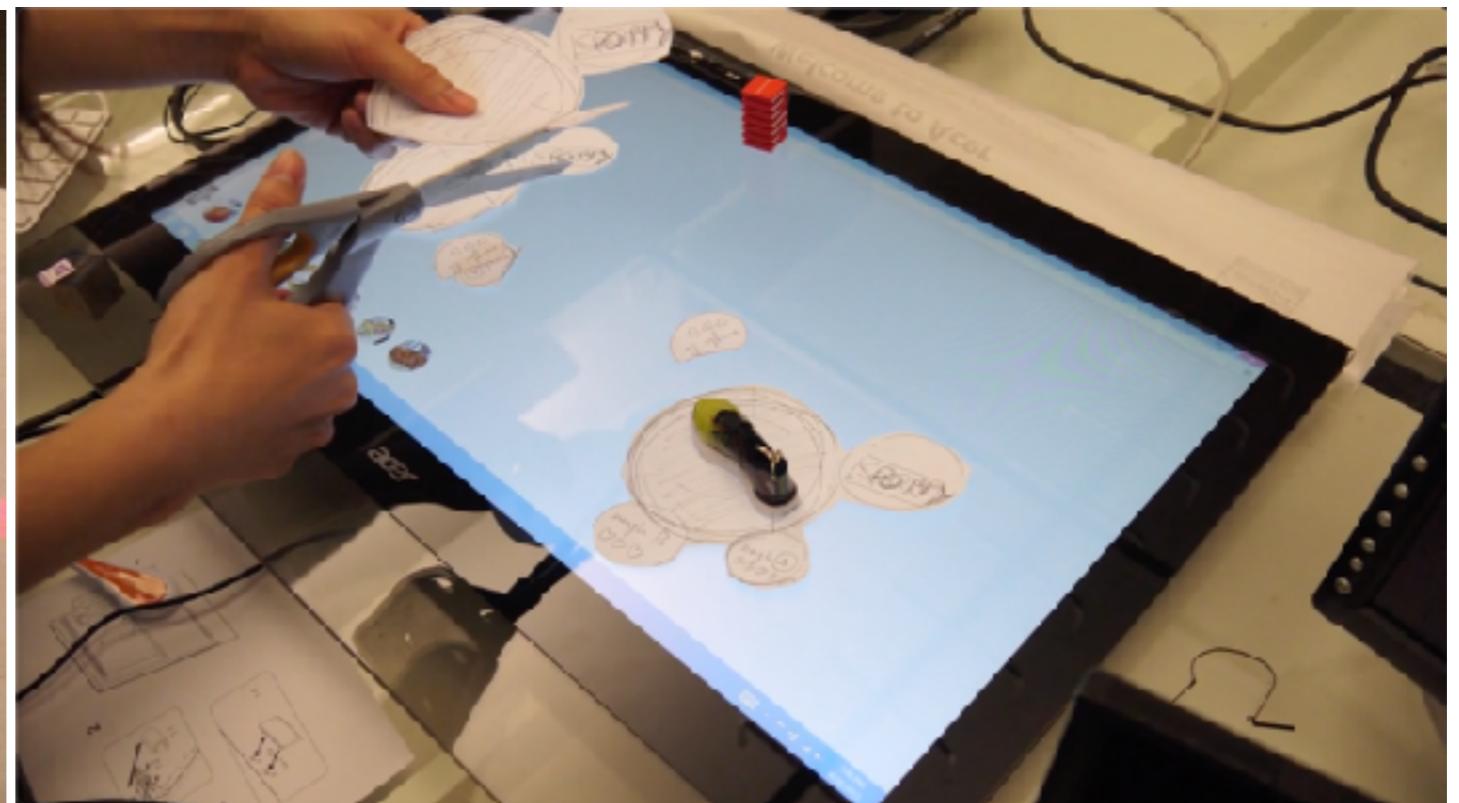
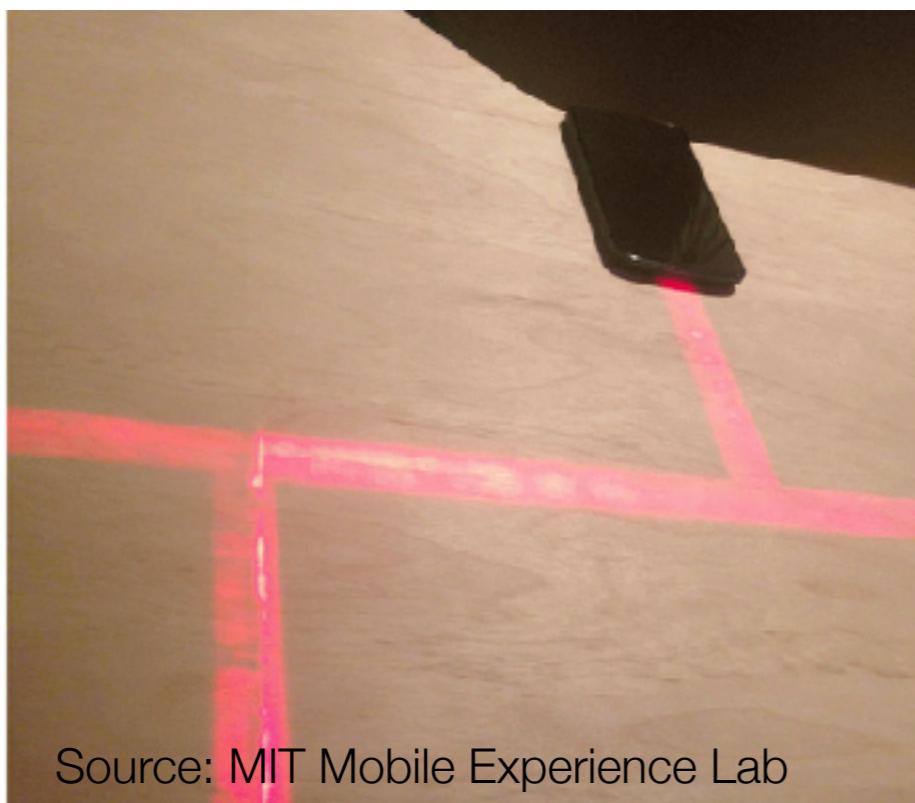
Case Study: Marriott Six Degrees

Slate



Prototype: Interactive table
- physical design

Low Fidelity

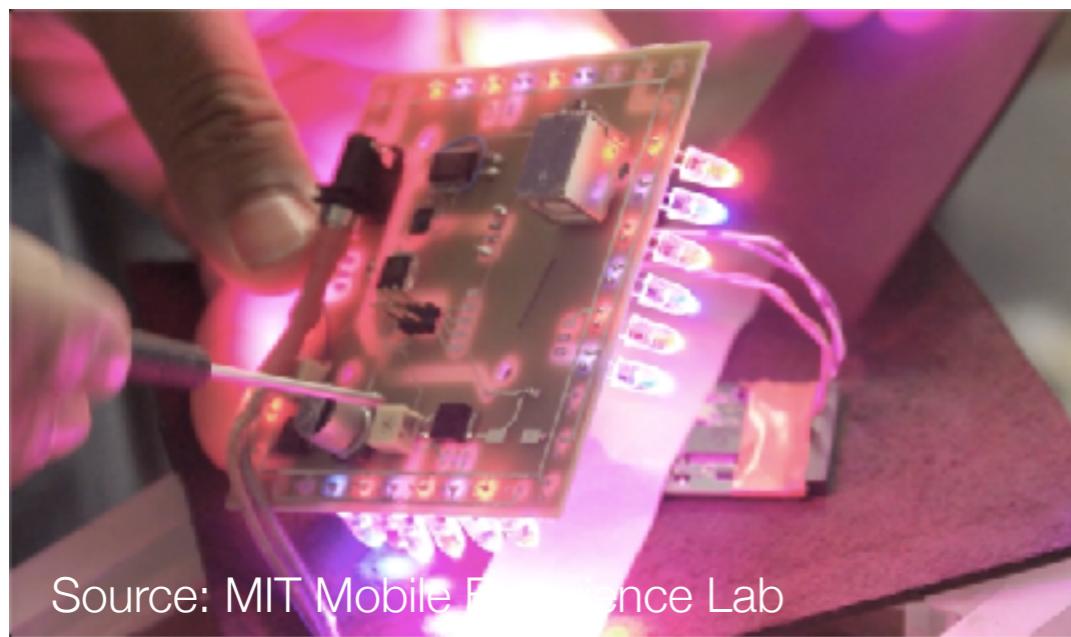


Case Study: Marriott Six Degrees



Prototype: Interactive table
- physical design

High Fidelity



Source: MIT Mobile Experience Lab

```
CkString iv;  
iv = "1234567890123456";  
  
// Set the key.  
crypt.SetEncodedKey(key,"ascii");  
crypt.SetEncodedIV(iv,"ascii");
```

Case Study: Marriott Six Degrees

Test: Role play physical experience before testing with users



Source: MIT Mobile Experience Lab

Case Study: Marriott Six Degrees

Test: After building the first prototype, the team tested the app, display, and table concept at the local Cambridge Marriott hotel lobby.



Source: Stephanie Nayoun

Case Study: Marriott Six Degrees

Testing

Things learned:

- Female travelers fear that it would become a hookup app
- Concerning about what information was made publicly available
- Time spent on forming connections on the table was an important detail

→ The need of professional interaction and increased privacy.

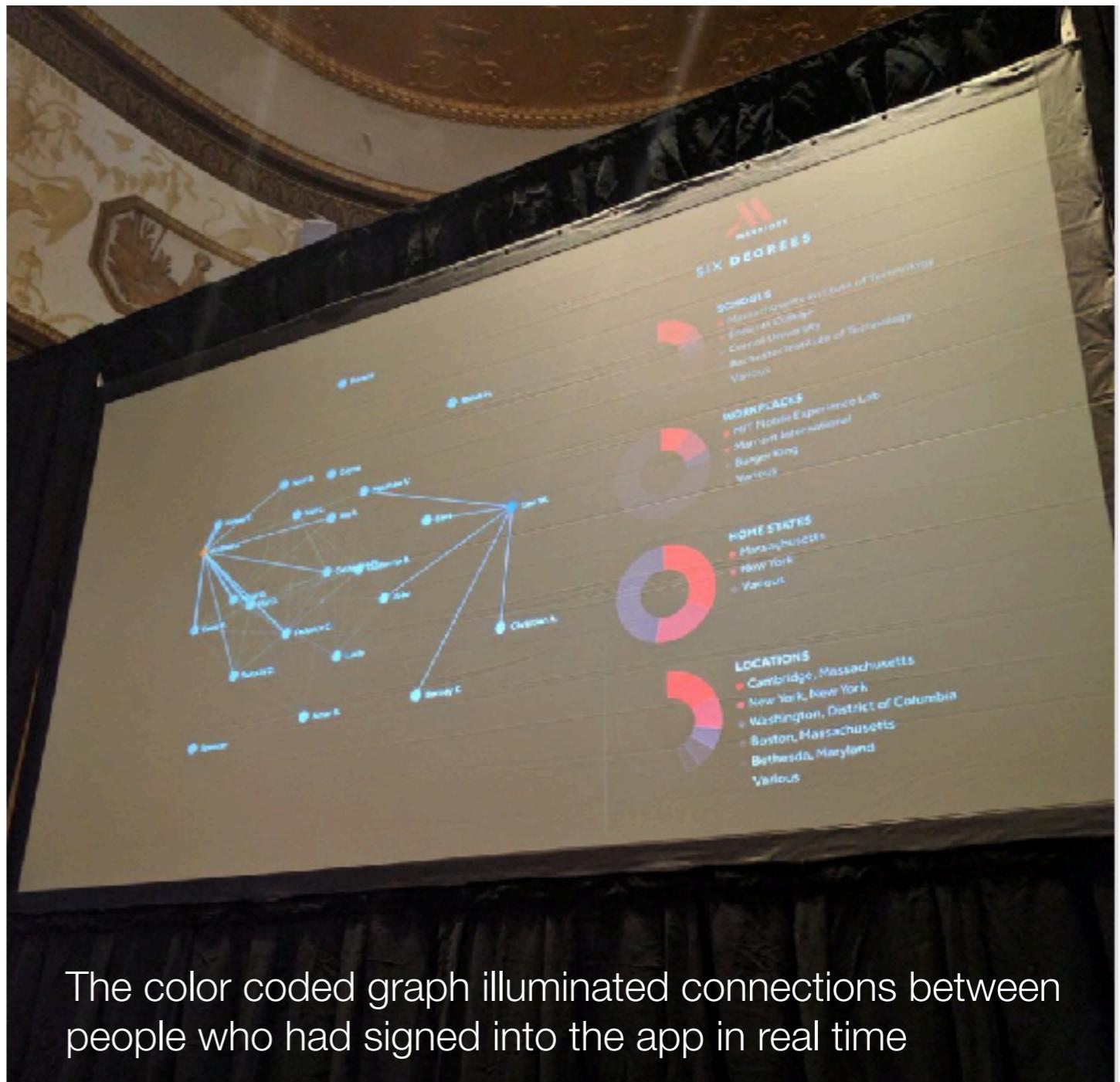


Image: Andrew Johnson

Case Study: Marriott Six Degrees

Iteration...

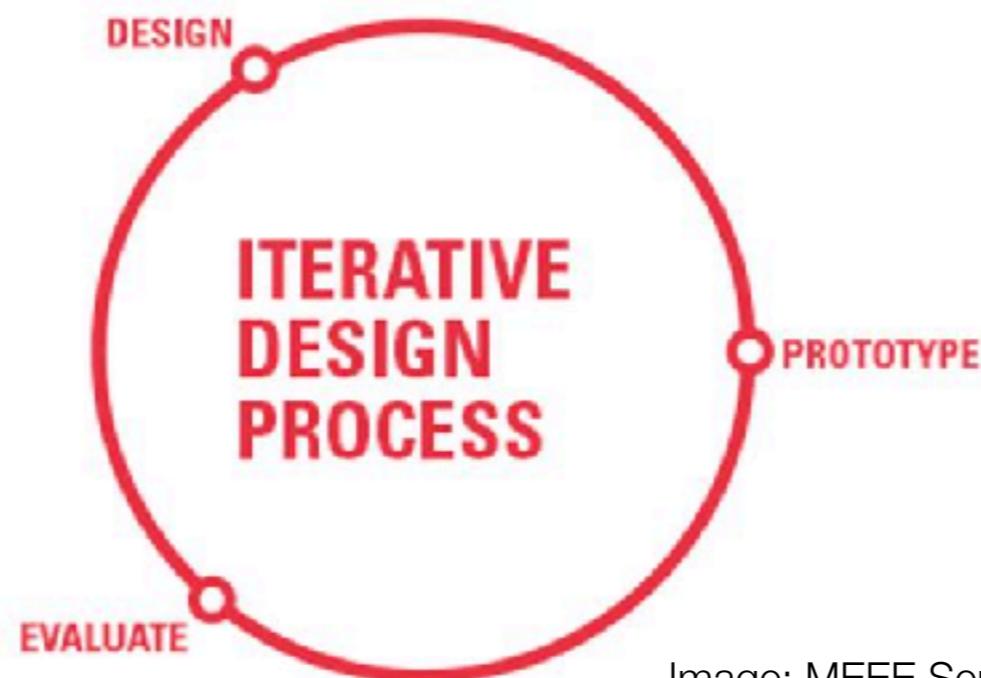


Image: MEEE Services

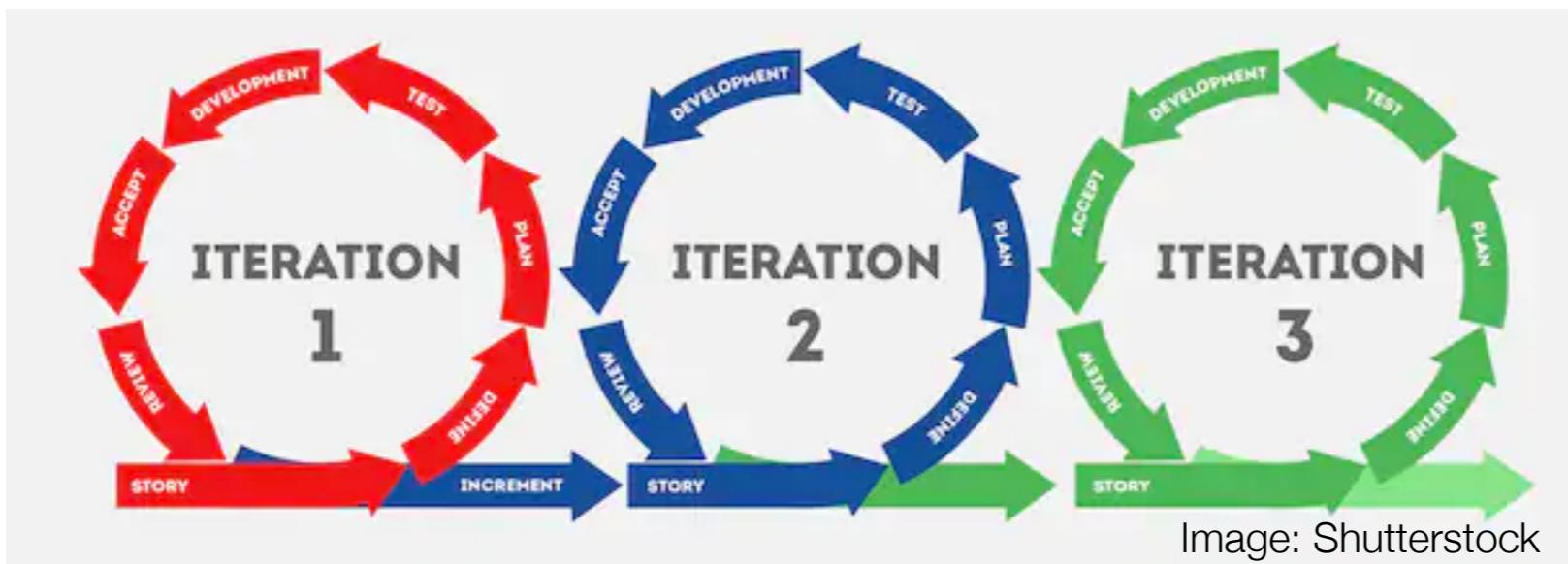
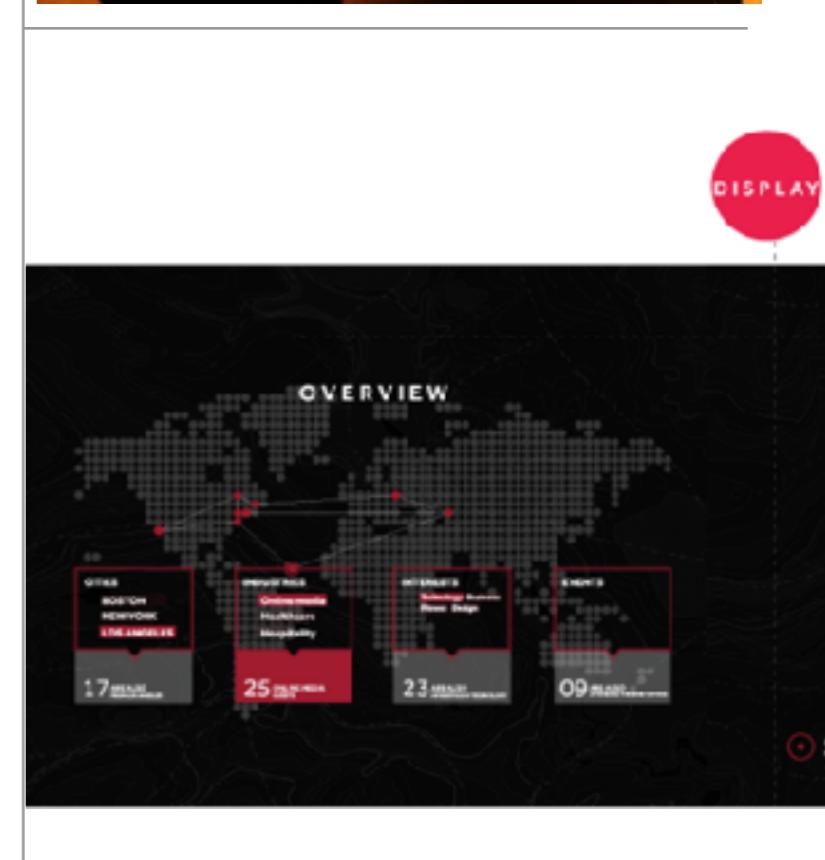
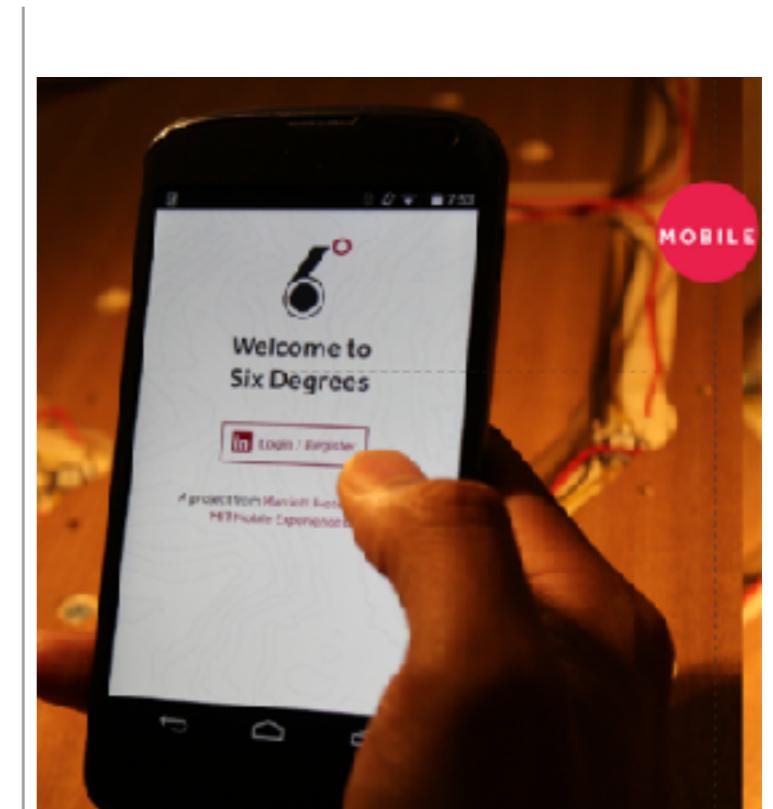
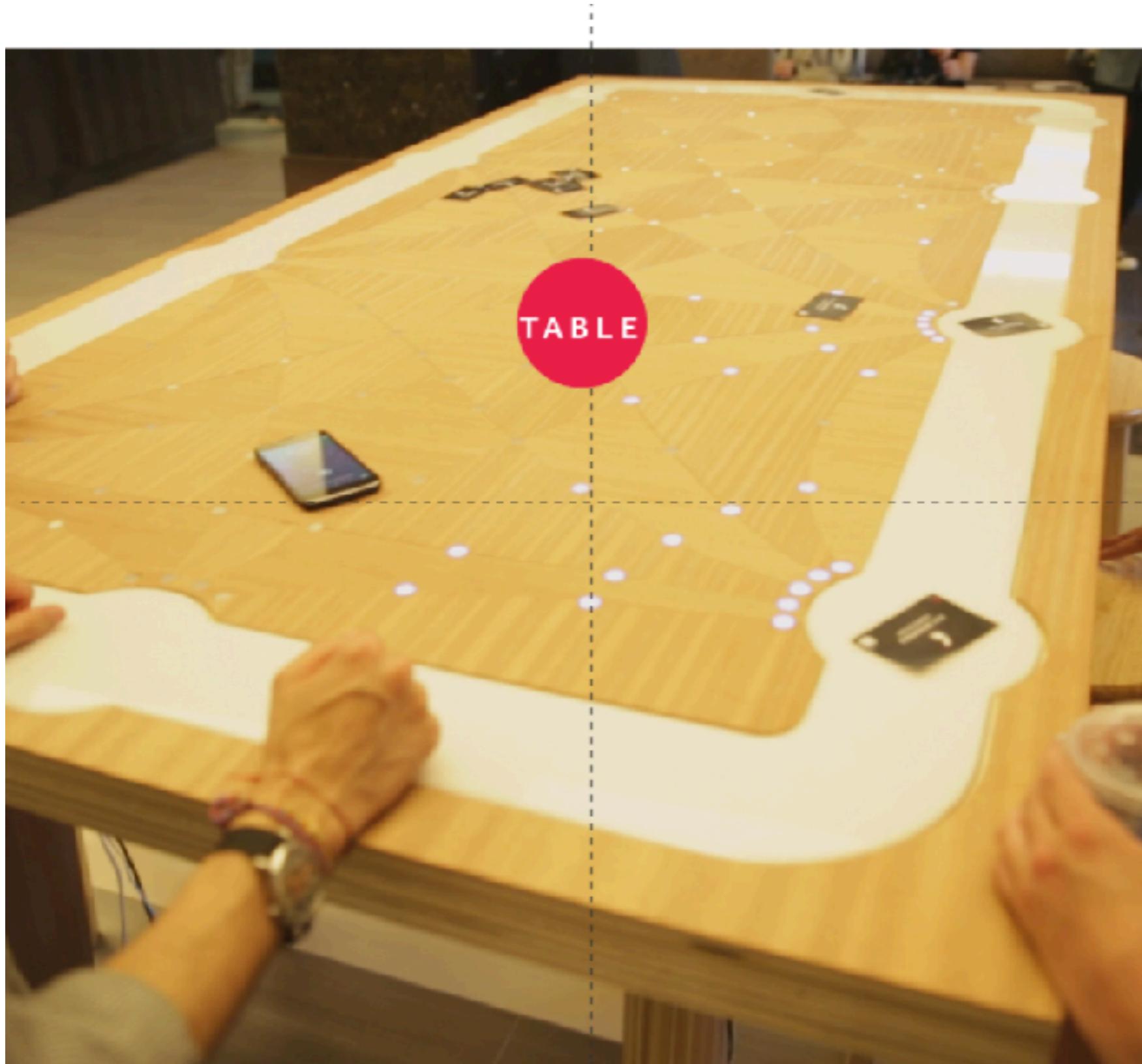


Image: Shutterstock



Final Designs of Six Degrees

Image by Stephanie Nayoun



Design Thinking
+
UX Design

The Mobile App

When a guest logs in for the first time, the Six Degrees Mobile App pulls in data from LinkedIn, and creates a profile based around their professional background and personal interests. Six Degrees uses this information to match guests with one another based on what they have in common – whether they've worked at the same company, gone to the same school, or share similar interests.

Final Designs of Six Degrees

Source: MIT Mobile Experience Lab



LAB TIME

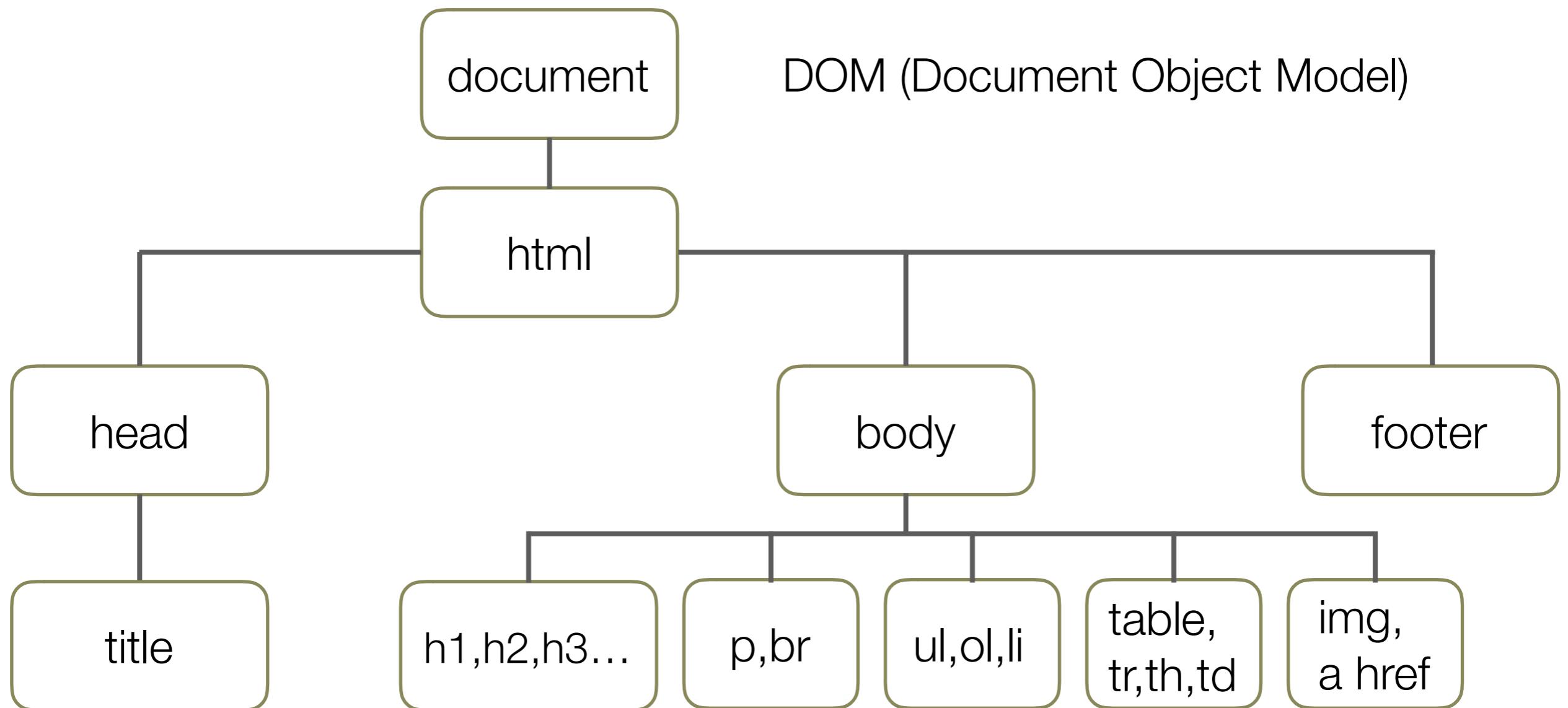
RECAP

What Does HTML Stand for?

(H)yper (T)ext (M)arkup (L)anguage

超文本标记语言

HTML as Document Object Model



The Grammar of HTML Elements

- Starts with a start/opening tag (e.g. <p>)
 - End with an end/closing tag (e.g. </p>)
 - Elements content is everything between the start and end tags
 - Void elements don't require a closing tag (e.g.
)
 - Most elements have attributes

What Does CSS Stand for?

(C)ascading (S)tyle (S)heet

层叠样式表

The Grammar of CSS

- Styles define how to display HTML elements
- Each style description is made up of a Selector and Declaration
- Selector defines which HTML element should be used for display and the declaration defines how
- Each declaration contains properties and values
- There are base and custom selectors (ID and CLASS are custom selectors)
- Style definition can be placed inline, in the head section or in an external file (e.g. style.css)

3 Ways To Apply CSS Styles

```
<p style="color: red; background-color: yellow">This is red text with a yellow  
background.</p>
```

In-line style definition: a CSS style can be applied directly to a HTML element by using the element's **style** attribute.

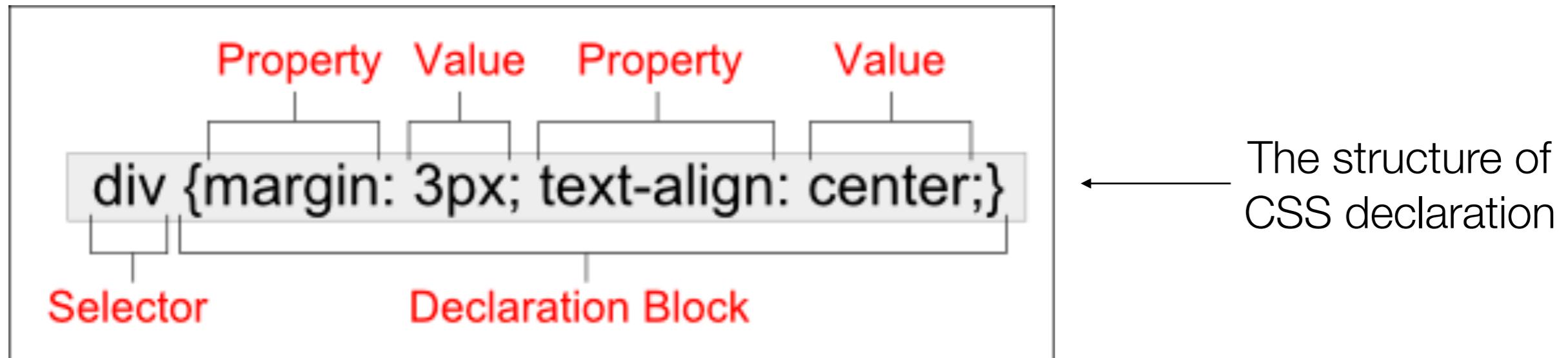
```
<head>  
  <style type="text/css">  
    p {color: red; background-color: yellow;}  
    h1 {text-align: center;}  
  </style>  
  ...  
</head>
```

Internal style-sheet definition: CSS style rules can be embedded in the **head section** of a HTML document by using the <style> element. When this method is used, the style rules apply to the whole HTML document.

```
<head>  
  <link href="website.css" rel="stylesheet" type="text/css">  
  ...  
</head>
```

External style-sheet definition: CSS style rules can be contained in an external style sheet file. The HTML document can link to the style sheet by using a <link> element located in the head section.

CSS Selectors 选择器



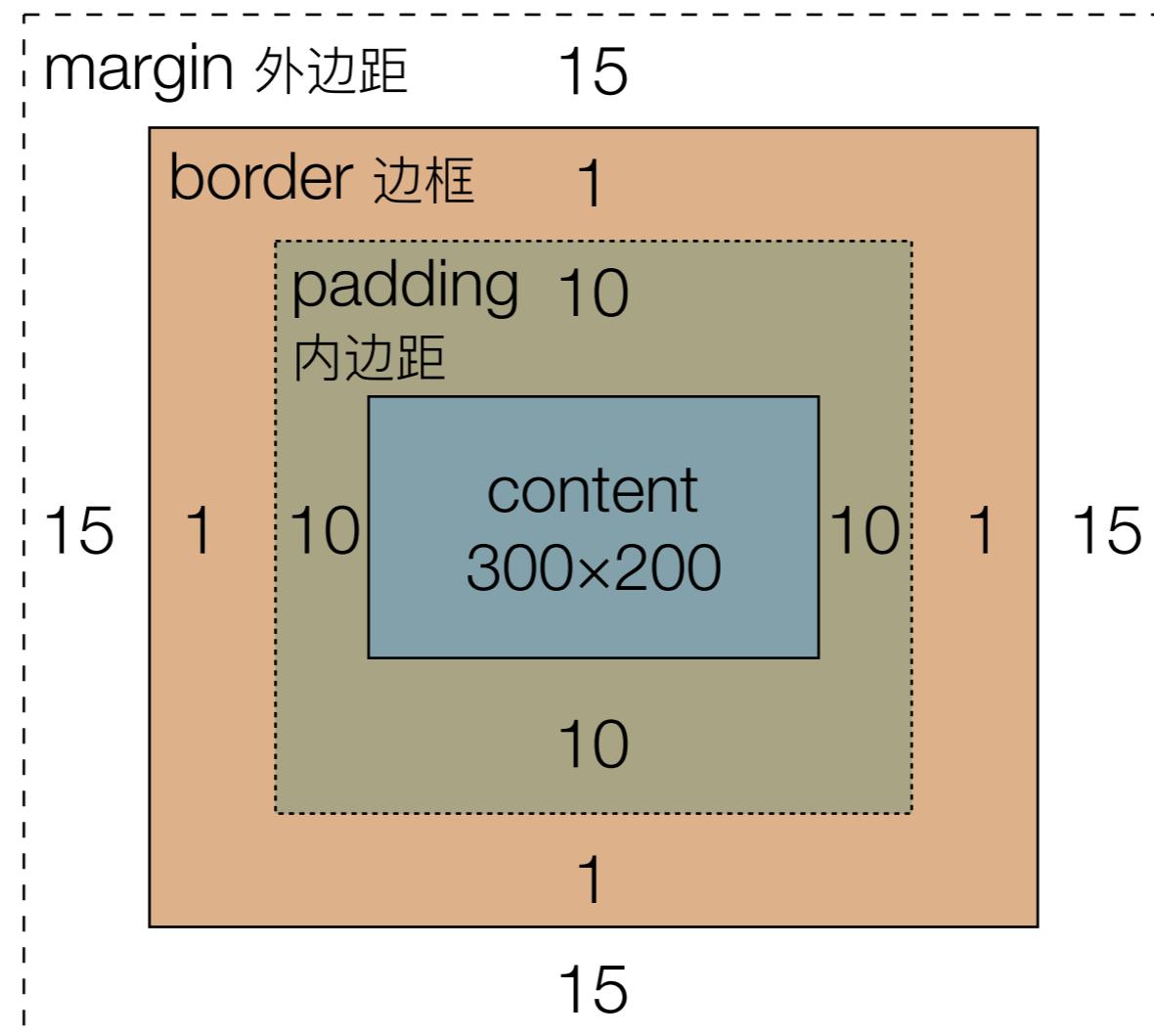
What is a CSS Selector?

- When a style is declared, there must be a method for selecting the element(s) that will receive the style. This is the role of the selector.
- Selectors are used to match one or more elements.
- The selector occurs immediately before the style declaration block.

Summary of Common CSS Selectors

Selector	What to match
Type Selector (name)	The name of an element (tag name).
Class Selector (.classvalue)	The value of an element's class attribute.
ID Selector (#idvalue)	The value of an element's id attribute.
Universal Selector (*)	All elements
Descendant Selector (ancestor descendant)	An element that is a descendant of another element.
Pseudo-class (:link)	A link that has not been visited.
Pseudo-class (:visited)	A link that has been visited.
Pseudo-class (:hover)	An element when a mouse cursor is hovering over it.

CSS Box Model



HTML elements which are part of visual layout are contained in rectangular boxes.

4 Ways of CSS positioning

using **.position** property

static	默认静态
relative	相对定位
absolute	绝对定位
fixed	固定定位

- **Static** - default position of a box following the normal document flow (not affected by top, left, right, bottom pos.)

静态位置， 默认位置无需声明， 不受top, left, right, bottom影响， 一般不常用； 但遇到继承情况， 可使用position:static恢复默认静态位置， 摆脱继承样式。

- **Relative** - relative when used with top and left position pair or bottom and right position pair will allow the object box to be moved to a new location relative to its current position (not container).

相对定位， 相对元素默认位置的定位， 偏移的top, left, right, bottom以默认位置为基准， 不受其他元素影响。relative移动后的元素在原位置仍占空间。

- **Absolute** - take the positioning out of the document flow and place it at a location (top and left position) as defined in relationship to its containing (or parent) element (context). The container/parent should be set to relative.

- 绝对定位， 如父容器设置了relative或absolute的偏移，则会根据父容器进行偏移； 如父容器未设置position属性，则以body为基准偏移。设置absolute属性的元素在标准流中不占位置。

- **Fixed** - it always stay on the same location as defined by the positions (top and left or bottom or right) even the page is scrolled. Unlike absolute, its parent is the viewport.

固定定位， 相对于viewport浏览器窗口的固定坐标， 不受页面滚动的影响， 始终以body作为依据。设置fixed属性的元素在标准流中不占位置。

Introducing Bootstrap

Getting to Know Bootstrap

Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

[Get started](#)

[Download](#)

Currently v4.4.1



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You'll love it 😍

<https://getbootstrap.com/>
[中文版 https://www.bootcss.com/](https://www.bootcss.com/)

Before Starting, Make Sure Reading the Instructions Carefully

B Home Documentation Examples Icons Themes Expo Blog v4.4 ▾  Download

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- Accessibility

Layout

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- Components
- Utilities
- Extend
- Migration

Quick start

Get started with Bootstrap, the world's most popular framework for building responsive, mobile-first sites, with BootstrapCDN and a template starter page.

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ads via Carbon

CSS

<https://getbootstrap.com/docs/4.4/getting-started/introduction/>

中文版 <https://v4.bootcss.com/docs/getting-started/introduction/>

Quick start
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Copy-paste the stylesheet <link> into your <head> **before all other stylesheets** to load Bootstrap CSS.

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Getting started

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CSS

Copy-paste the stylesheet <link> into your <head> before all other stylesheets to load our CSS.

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/l Copy
```

JS

Many of our components require the use of JavaScript to function. Specifically, they require [jQuery](#), [Popper.js](#), and our own JavaScript plugins. Place the following <script>s near the end of your pages, right before the closing </body> tag, to enable them. jQuery must come first, then Popper.js, and then our JavaScript plugins.

We use [jQuery's slim build](#), but the full version is also supported.

```
<script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-J6q; Copy<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" i<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js" Copy
```

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Community



Let's Set Up Your Personal Github Pages

GitHub Desktop File Edit View Repository Branch Window Help

New Repository... Add Local Repository... Clone Repository...

Current Repository: Creative_Design_S

Fetch origin
Last fetched 13 minutes ago

Changes 1 History example5.html

1 changed file

example5.html

@@ -2,6 +2,10 @@

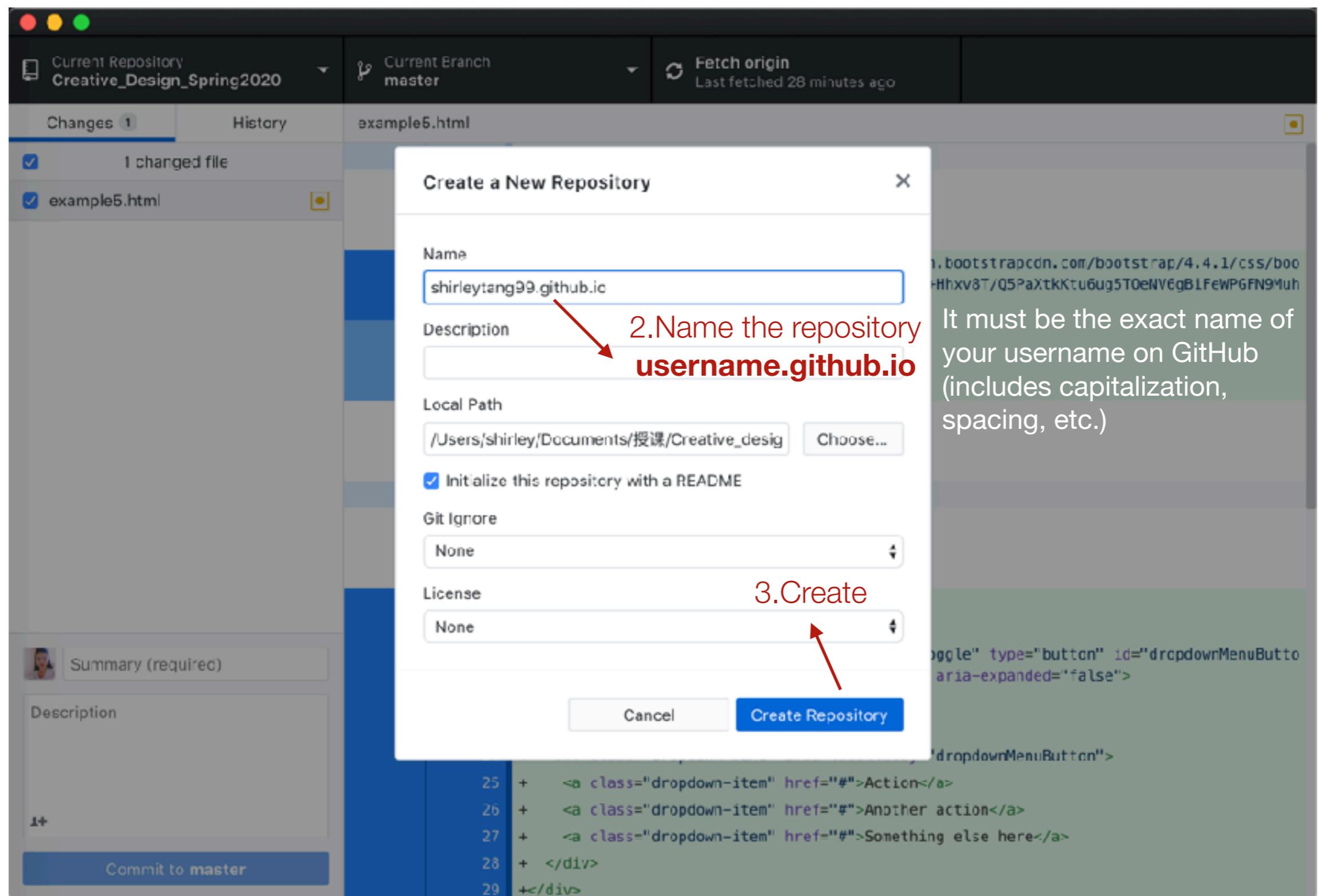
```
2 2 <html lang="en">
3 3 <head>
4 4 +<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha3B4-Vkod8x4CGs03+HkvBT/Q5PeXtkKtu6ug5TDeNV6gBiFeWPGFN9Muh0f23Q9lfjh" crossorigin="anonymous">
5 +
6 +
7 +
8 +
9 <title>HTML Test</title>
10 <meta charset="UTF-8">
11 <style type="text/css">
@@ -12,8 +15,44 @@ p:hover {color: red;}
12 16 </head>
13 17
14 18 <body>
19 +
20 + <div class="dropdown">
21 +   <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButton" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
22 +     Dropdown button
23 +   </button>
24 +   <div class="dropdown-menu" aria-labelledby="dropdownMenuButton">
25 +     <a class="dropdown-item" href="#">Action</a>
26 +     <a class="dropdown-item" href="#">Another action</a>
27 +     <a class="dropdown-item" href="#">Something else here</a>
28 +   </div>
29 + </div>
```

Summary (required)

Description

Commit to master

1. Create a new repository



Actually you've already set up your personal GitHub page.

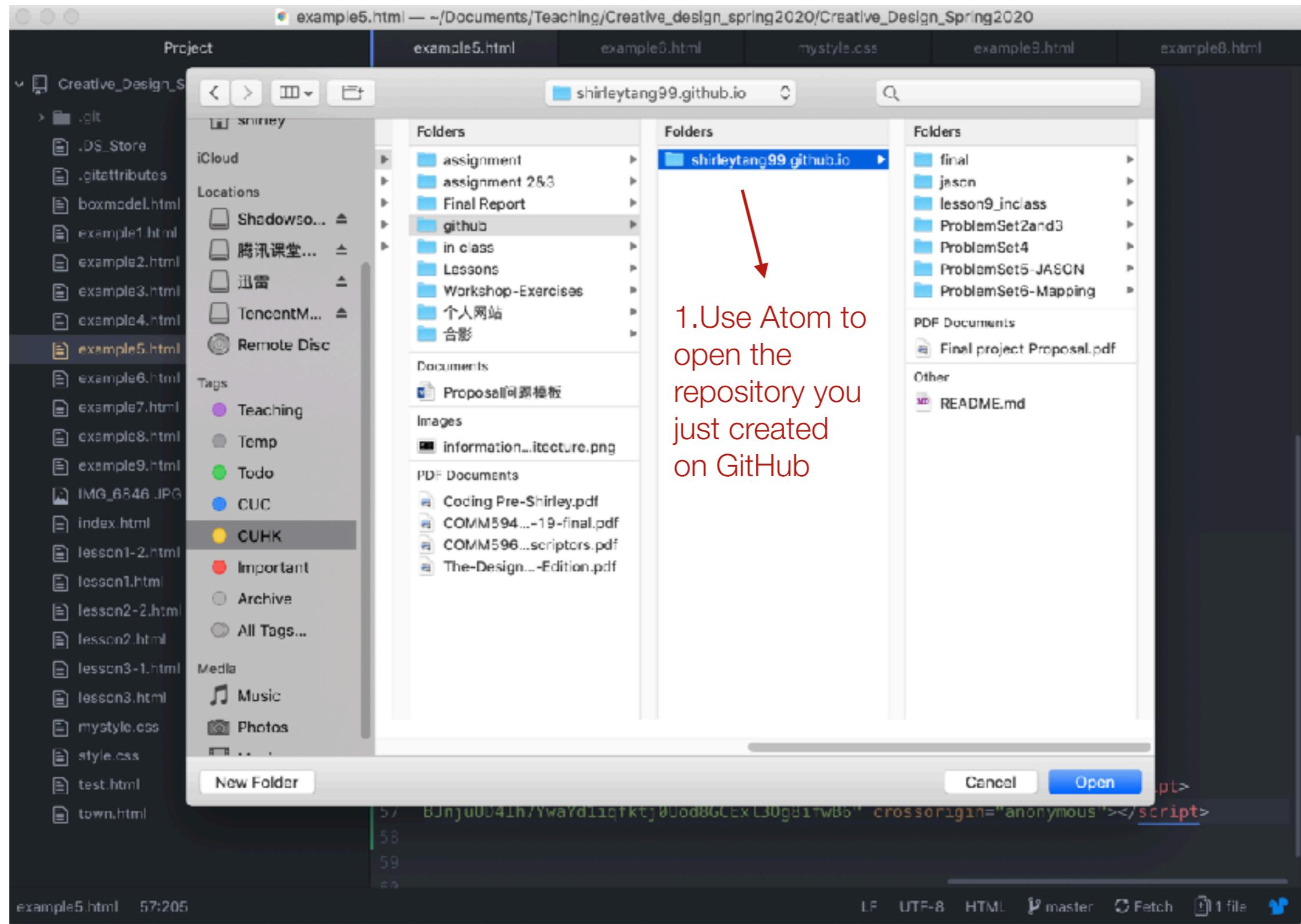
Here is your URL:

<https://yourusername.github.io/>

(e.g mine is <https://shirleytang99.github.io/>)

But there is nothing in there...

Let's write html code to display some content on your website.



Atom File Edit View Selection Find Packages Window Help

Project — ~/Documents/2018-2019 CUHK/1st Term/Coding-Bernard/github/shirleytang99.github.io

index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <title>My Web Page</title>
6   </head>
7   <body>
8     <h1>My First Website</h1>
9     <h2>I hope you like it here.</h2>
10    <h3>I hope you like it here.</h3>
11    <h4>I hope you like it here.</h4>
12    <h5>I hope you like it here.</h5>
13    <h6>I hope you like it here.</h6>
14    <p>This is my paragraph.</p><br>
15    <p>This is another paragraph.</p>
16    <b>Bold text</b>
17    <i>Italic text</i>
18    <u>Underlined text</u>
19    <em>Emphasized text</em>
20    <strong>Strong text</strong>
21    <sub>Subscript text</sub>
22    <sup>Superscript text</sup>
23    
24    <a href="http://by.cuc.edu.cn/">This is the link to CUC's website</a>
25  </body>
26 </html>
27
```

2.Create a new file under the yourusername.github.io repository

Notes:
file name must be **index.html**

index.html 11 LF UTF-8 HTML master Fetch 7 files

Current Repository
Creative_Design_Spring2020

Current Branch
master

Fetch origin
Last fetched 7 minutes ago

Changes 1 History

1 changed file

example5.html

Click here

```
@@ -2,6 +2,10 @@
 2   2 <html lang="en">
 3   3 <head>
 4   4 +<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha384-VkooBx4CGs03+HhxvBT/Q5PaXtkKtu6ug5T0eNV6gBiFeWPGFN9Mu
 5   5 0f23091fjh" crossorigin="anonymous">
 6   6 +
 7   7 +
 8   8 +
 9   9 <title>HTML Test</title>
10  10 <meta charset="UTF-8">
11  11 <style type="text/css">
@@ -12,8 +16,44 @@
12  12 <p:p:hover {color: red;}>
13  13 </head>
14  14 <body>
15  15 +
16  16 +<div class="dropdown">
17  17 +<button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButton"
18  18 + data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
19  19 +  Dropdown button
20  20 +</button>
21  21 +<div class="dropdown-menu" aria-labelledby="dropdownMenuButton">
22  22 +<a class="dropdown-item" href="#">Action</a>
23  23 +<a class="dropdown-item" href="#">Another action</a>
24  24 +<a class="dropdown-item" href="#">Something else here</a>
25  25 +</div>
26  26 +</div>
27  27 +</div>
28  28 +</div>
29  29 +</div>
```

Summary (required)

Description

Commit to master

Current Repository
Creative_Design_Spring2020

Current Branch
master

Fetch origin
Last fetched 7 minutes ago

Filter

GitHub.com

▲ Clean-Blog

● Creative_Design_Spring2020

▲ shirleytang99.github.io

▲ test

▲ Workshop-Exercises

example5.html

```
@@ -2,6 +2,10 @@
 2   2 <html lang="en">
 3   3 <head>
 4   4 +<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha384-Vkoo8x4CGs03+HlxvBT/Q5PaXlkKlu6ug5T0eNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">
 5   5 +
 6   6 +
 7   7 +
 8   8
 9   9 <title>HTML Test</title>
10  10 <meta charset="UTF-8">
11  11 <style type="text/css">
@@ -12,8 +16,44 @@
12  12 </head>
13  13
14  14 <body>
15  15 +
16  16 +
17  17 +
18  18 <div class="dropdown">
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20  20 + <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButton" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
21  21 +   Dropdown button
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24  24 +   <a class="dropdown-item" href="#">Action</a>
25  25 +   <a class="dropdown-item" href="#">Another action</a>
26  26 +   <a class="dropdown-item" href="#">Something else here</a>
27  27 + </div>
28  28 + </div>
29  29 +</div>
```

3. Open your new repository

The screenshot shows the GitHub Desktop application interface. At the top, it displays the current repository as "shirleytang99.github.io", the current branch as "master", and the status of the pull origin as "Never fetched". Below this, the "Changes" tab is selected, showing a list of 7 changed files. The file "index.html" is highlighted with a red border and has a green plus sign icon next to it, indicating it is ready to be staged for commit. A red arrow points from this section to a text block on the right.

GitHub desktop has detected
the changes you made

This binary file has changed.
[Open file in external program.](#)

4. As usual:
1) write summary
2) commit to master
3) then pull origin

This is my first webpage

Description

Commit to master

shirleytang99 / shirleytang99.github.io

No description, website, or topics provided.

Manage topics

64 commits 15 branches 0 packages 0 releases 1 environment 1 contributor

We found potential security vulnerabilities in your dependencies.

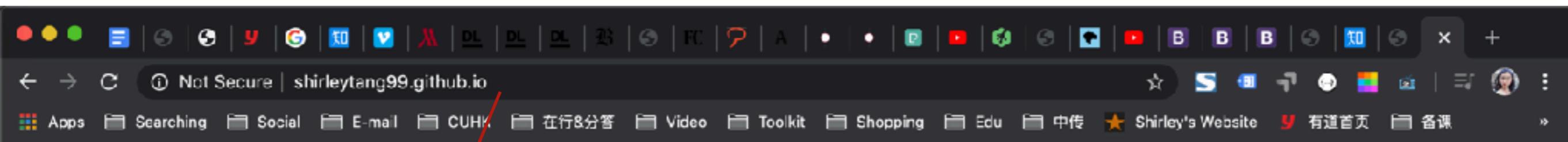
Only the owner of this repository can see this message.

View security alerts

Branch: master New pull request Create new file Upload files Find file Clone or download

Commit	Message	Date
shirleytang99 This is a test.	This is my first personal website	25 days ago
ProblemSet2and3	add google tag manager	16 months ago
ProblemSet4	update	17 months ago
ProblemSet5-JASON	Add Google tracking ID	17 months ago
ProblemSet6-Mapping	update with misspelling	16 months ago
final	merge	17 months ago
jason	change the name	17 months ago
lesson9_inclass	Fronts changed	16 months ago
.DS_Store	Initial commit	2 years ago
.gitattributes	ProblemSet7-OnePageProposal	17 months ago
Final project Proposal.pdf	Initial commit	17 months ago
README.md	This is a test.	25 days ago
Index.html		

You can go to your GitHub webpage to see if this index.html file is under your username.github.io repository.



Welcome to My Page!

My name is Bob.

I hope you like it here.

This is my paragraph.

Whales are majestic creatures.

4.

Type in your personal Github page url to visit your first website!
Now you can share this url with your friends so that they can see your works.
However, this webpage is too plain. You may consider add some styles to it...



中國傳媒大學

COMMUNICATION UNIVERSITY OF CHINA

[This is the link to CUC's website](#)

Bold text *Italic text* Underlined text _{Subscript text} ^{Superscript text}

ASSIGNMENT#1

- Create your first personal GitHub webpage as we went through in class and share your url with me through slack.
(#visual-design-and-new-media channel for class01 students, #advertising-and-public-relations channel for class02 students)
- Style your webpage using bootstrap.
- Extra points will be given to the beautifully styled and meaningful webpages.
- Due on April 19th.

Reference Links

1. MIT Mobile Experience Lab

<https://design.mit.edu/>

2. Bootstrap

<https://getbootstrap.com/>

3. Pexels - free stock photos & videos for web development

<https://www.pexels.com/>

Thanks for your time!