DESIGNING FOR THE DIGITAL ECOSYSTEM

Cornell Tech 2016

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CLASS 3: DIGITAL DESIGN BASICS

WE COVERED DESIGN BASICS

WHAT IS DIGITAL DESIGN?

DIGITAL DESIGN

A BIRD'S EYE VIEW



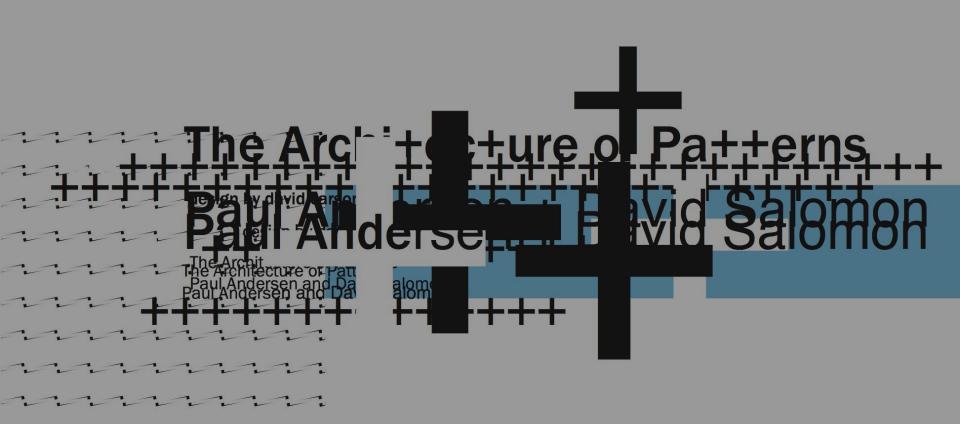
FIRST A BRIEF HISTORY OF DIGITAL DESIGN

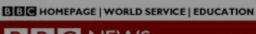




NEW PROBLEMS (PIXELS) (TYPOGRAPHY)

The quick brown fox jumps over a lazy dog.





NEW CANVASES (WEBSITES)

Front Page Tuesday, 29 February, 2000, 07:50 GMT

UK Politics

Business

Sci/Tech

Health

World LATEST: UK



US applauds Haider resignation

Party, Joerg Haider.

The United States gives a qualified welcome to the resignation of the leader of Austria's far right Freedom Search BBC News Online

Advanced search options

low graphics version | feedback | help

S BBC ONE TV NEWS

48 WORLD NEWS SUMMARY CO AUDIO/VIDEO

Dial M for mother Mobile

videophones of the future

m real 28k

IN DEPTH Vote USA 2000 Latest news and

features from the US campaign trail

O TALKING POINT

Mozambique Time for an international

rescue?

Kournikova's love

match



Also:

Analysis: Haider's tactical move

news in other . Analysis: EU's forceful warning on Haider

languages > Profile: Joerg Haider

"The move could help him أولكين الله بي به سي أولكين

NOTICIAS P In Depth: The Haider Factor

новости

财事天地 NEWYDDION

'Looted' art lists unveiled Hundreds of works of art suspected of having been looted by the Nazis are hanging in the UK's galleries, a report is to reveal.

◆ audio Also:

Mope for Nazi loot victims

· Brushing out the taint of looted art

Stolen Nazi art returned







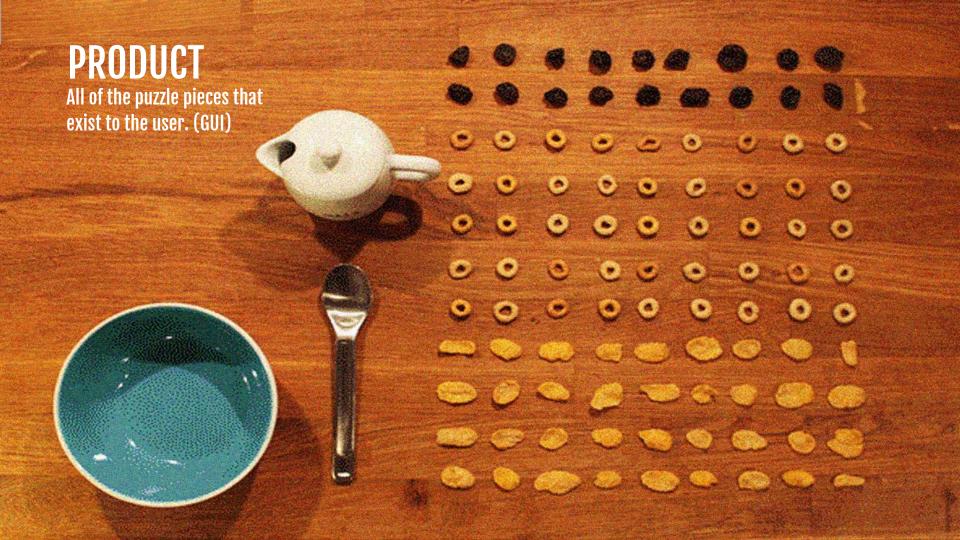
WHAT ARE THE COMPONENTS OF DIGITAL DESIGN

UX + UI













SO TO REPEAT

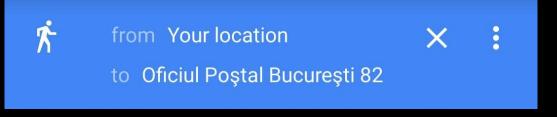
PRODUCT

All of the puzzle pieces that exist to the user. (GUI)



USER EXPERIENCE (UX)

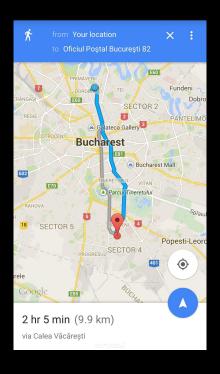
The whole puzzle, ready to consume.



Getting you from A - B

USER INTERFACE (UI) The puzzle piece(s) that the user

needs to get the job done.



AND AGAIN

PRODUCT

All of the puzzle pieces that exist to the user. (GUI)



USER EXPERIENCE (UX)

The whole puzzle, ready to consume.

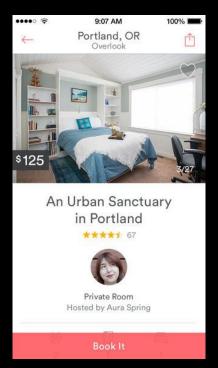


Where are you going?

Finding you a place to stay

USER INTERFACE (UI) The puzzle piece(s) that the user

needs to get the job done.



ONE MORE TIME

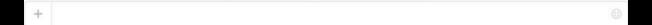
PRODUCT

All of the puzzle pieces that exist to the user. (GUI)



USER EXPERIENCE (UX)

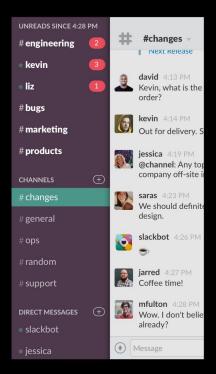
The whole puzzle, ready to consume.



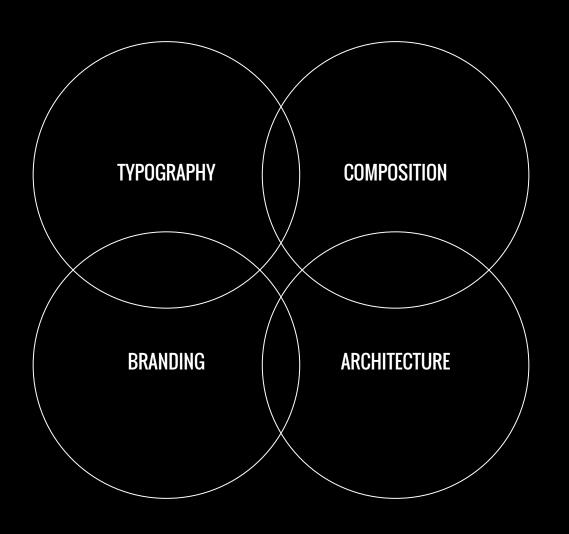
Project management through messaging.

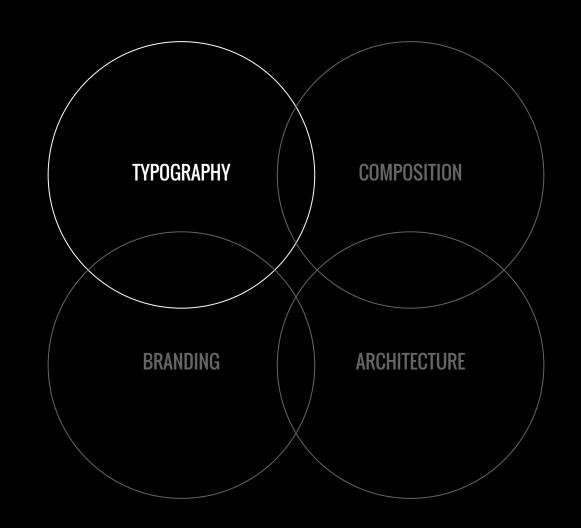
USER INTERFACE (UI)

The puzzle piece(s) that the user needs to get the job done.



UI = VISUAL DESIGN





DIGITAL DESIGN TYPOGRAPHY OPERATES UNDER A FEW RULES

MOST LIKELY A GEOMETRIC SANS-SERIF.

HAS TO WORK AT SMALL SIZES.

ONE TYPEFACE WITH MULTIPLE WEIGHTS SHOULD BE PLENTY.

TYPE SHOULD BE SIMPLE AND READABLE.

Heading 1

<h1></h1>

CSS

Heading 2

<h2></h2>

Body Paragraph

Elements

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna rud exercitation ullamco laboris nisi ut aliquip.

Ordered List

<01>

Unordered List

<l

- 1. Lorem ipsum
- 2. Dolor sit amet
- 3. Consectetur
- 4. Ad minim quis

- Lorem ipsum
- Dolor sit amet
- Consectetur
- Ad minim quis

Link

a:link

LINK HERE

Font

Properties

```
h1 {
     line-height:normal;
}
```

Font Properties

```
h1 {
      padding:0;
      align:left;
}
```

Font

1.15 x font size

Properties

```
h1 {
    line-height:1.15;
}
```

Font Properties

```
h1 {
      padding:30px 30px 30px;
}
```

Font Properties

```
font-style:normal,
font-weight:bold;
}
```

Font Properties

```
font-style:normal;
font-weight:normal
```

Font Properties

```
h1 {
    font-style:italic;
    font-weight:bold;
}
```

Font Properties

```
h1 {
    font-style:italic;
    font-weight:normal;
}
```

Font Properties

```
font-family: Helvetica,
    Arial, sans-serif;
}
```

Font Properties

```
font-family: Helvetica,
Arial, sans-serif;
```

Font Properties

```
font-family: Helvetica,
Arial, sans-serif;
}
```

Font Properties

```
h1 {
    font-size:0.5em;
}
```

Text Properties

```
h1 {
    text-align:left;
}
```

text properties

```
h1 {
    text-transform:lowercase;
}
```

Text Properties

```
h1 {
    text-decoration:underline;
}
```

Text Properties

```
h1 {
    letter-spacing:50px
}
```

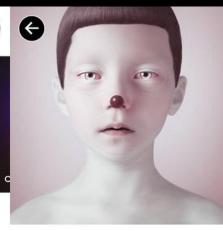


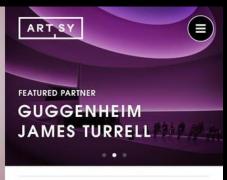
ART.SY

FEATURED CATEGORIES









CURRENT SHOWS

SUBJECT MATTER







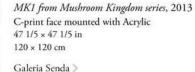


Featured Works for Sale









OLEG DOU >

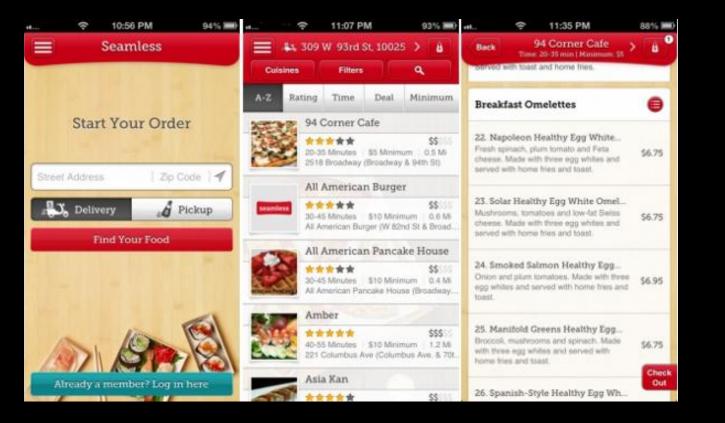
Price: €10,000

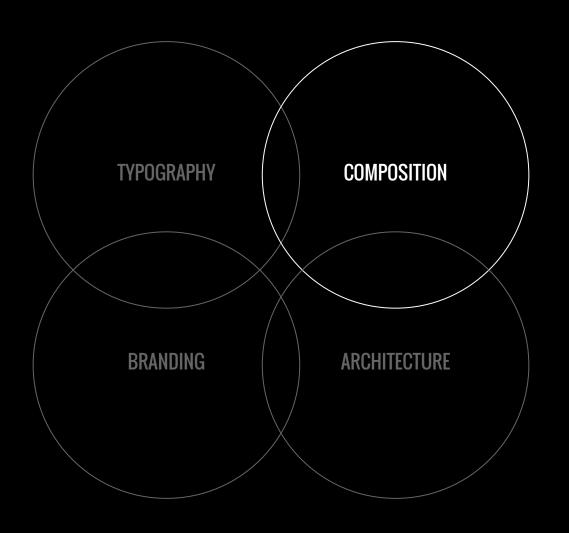






SEAMLESS



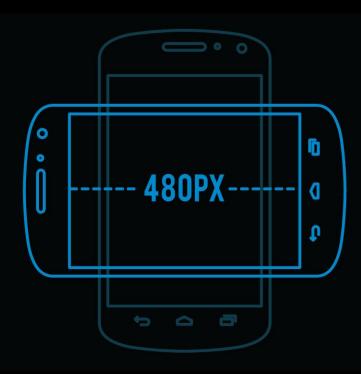




THE GRID IDEALLY IS FLEXIBLE FOR BOTH VERTICAL...

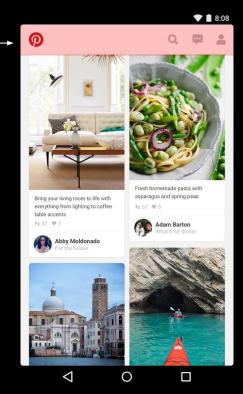


AND HORIZONTAL DISPLAYS

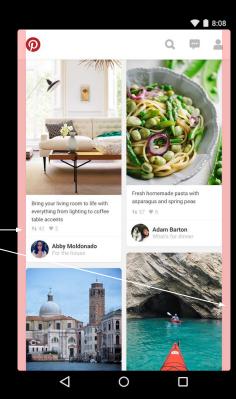


THESE GRIDS HAVE

Headers

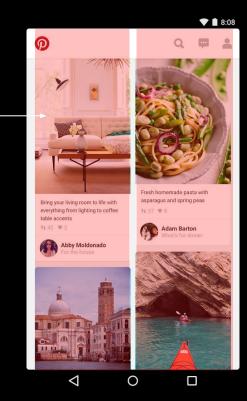


THESE GRIDS HAVE



Margins =

THESE GRIDS HAVE



Columns -

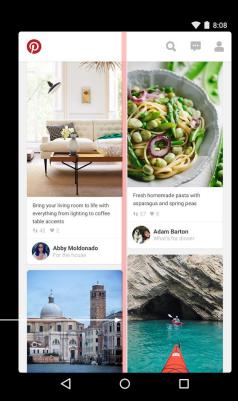
ROWS

8:08 1 Rows -Fresh homemade pasta with asparagus and spring peas Bring your living room to life with everything from lighting to coffee #± 57 ♥ 8 table accents Abby Moldonado

 ∇

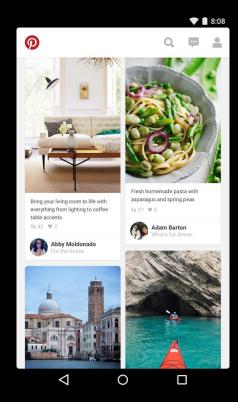
0

GUTTERS



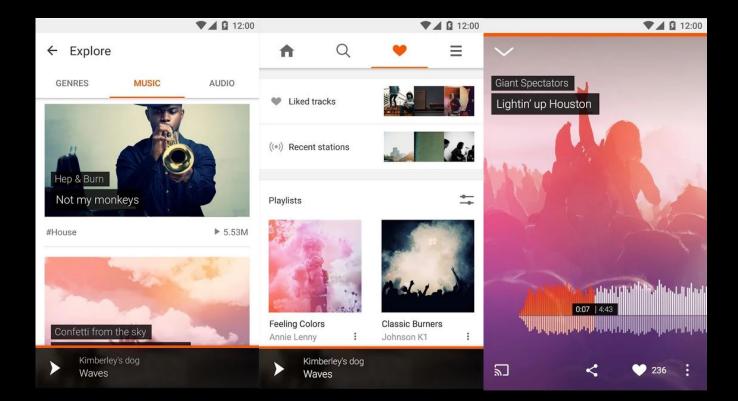
Gutter -

AND WHITE SPACE



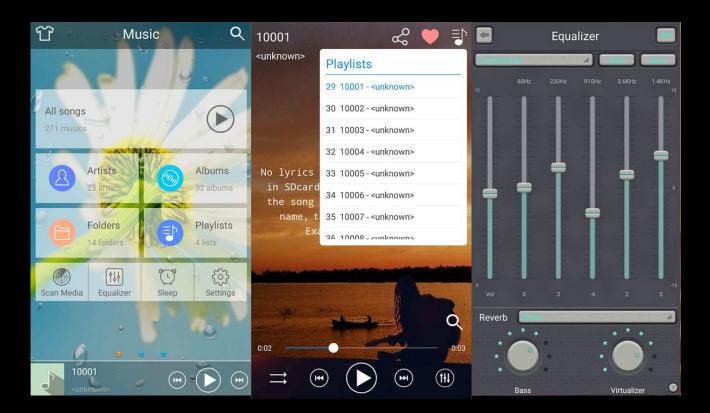


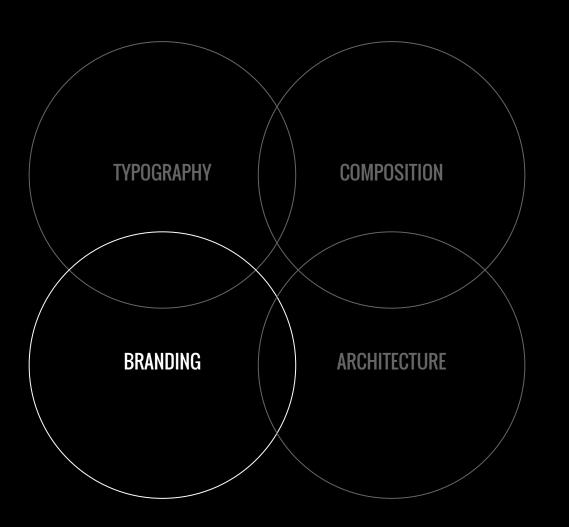
SOUNDCLOUD





LEOPARD MUSIC PLAYER





BRANDING IS COMPRISED OF:



THE LOGO SHOULD BE READABLE, SCALABLE, SIMPLE AND EVER-PRESENT

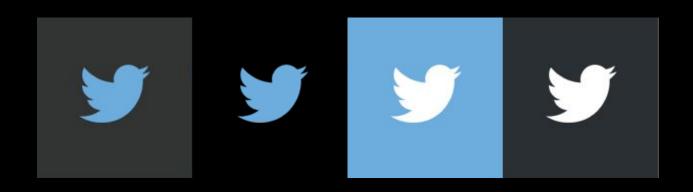
SCALABLE

The logo should be able to shrink down to tiny sizes and screens.



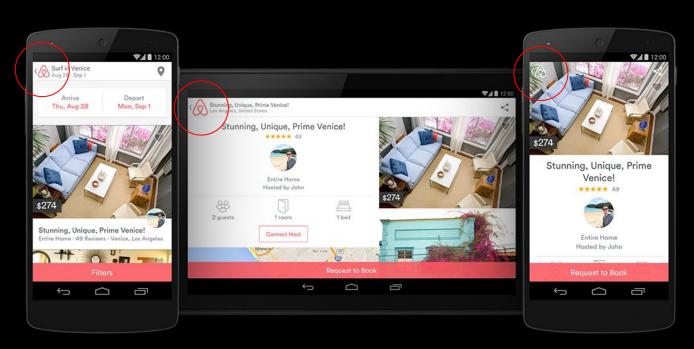
SIMPLE

The logo should be able to be reproduced in black and white and in icon.



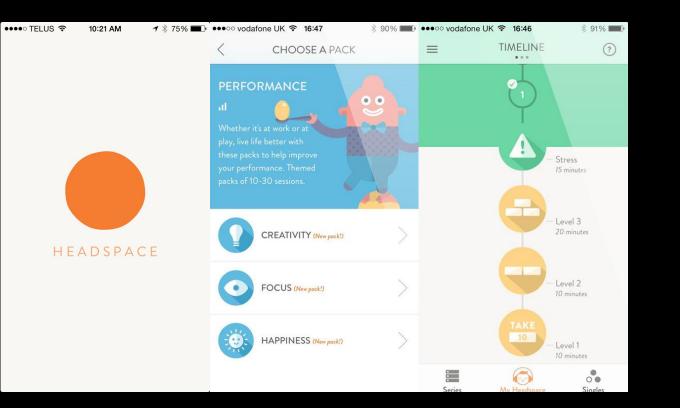
EVER-PRESENT

The logo should be on every screen it can be and remain the same proportion.



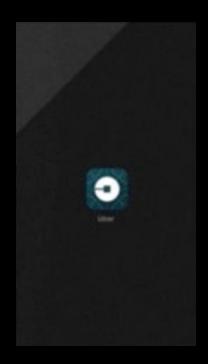


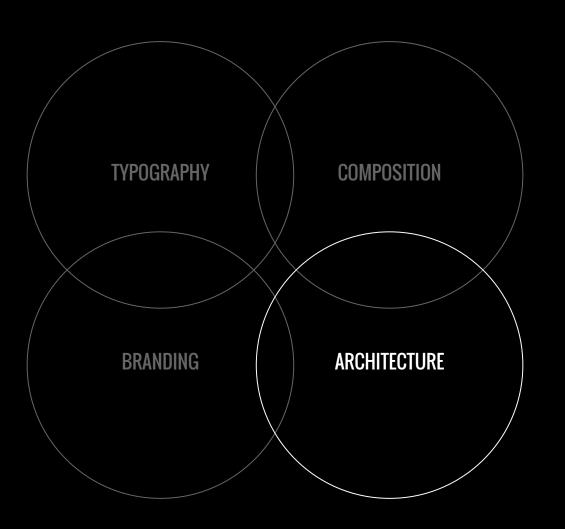
HEADSPACE



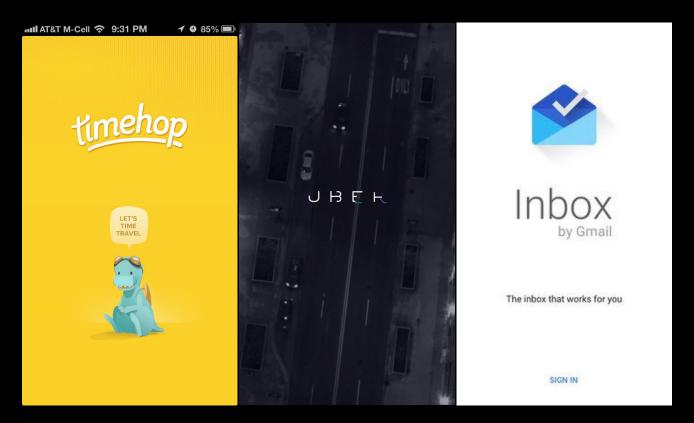


UBER

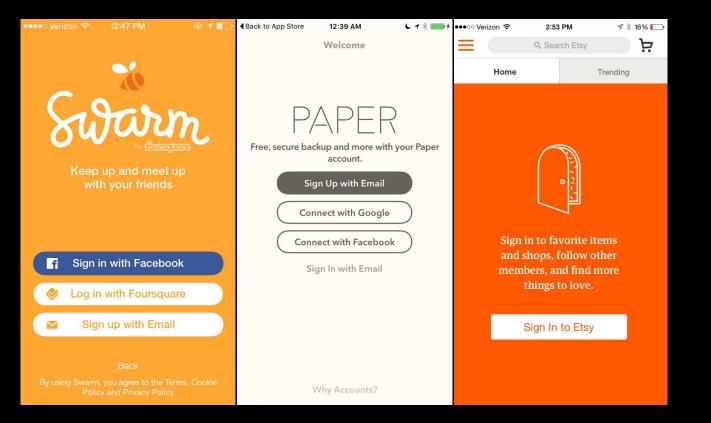




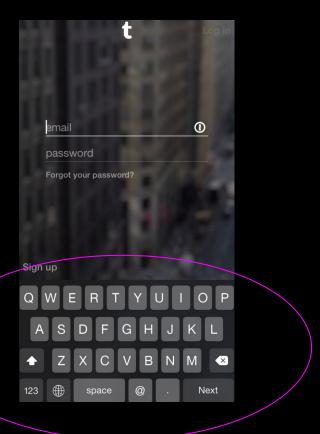
SPLASH / LOADING SCREENS



LOGIN SCREENS

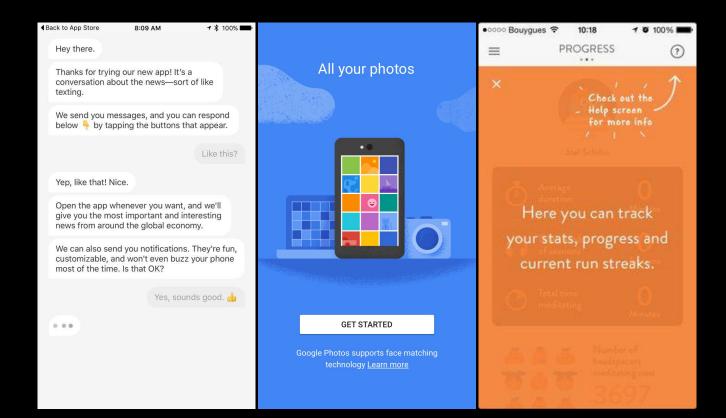


LOGIN SCREENS

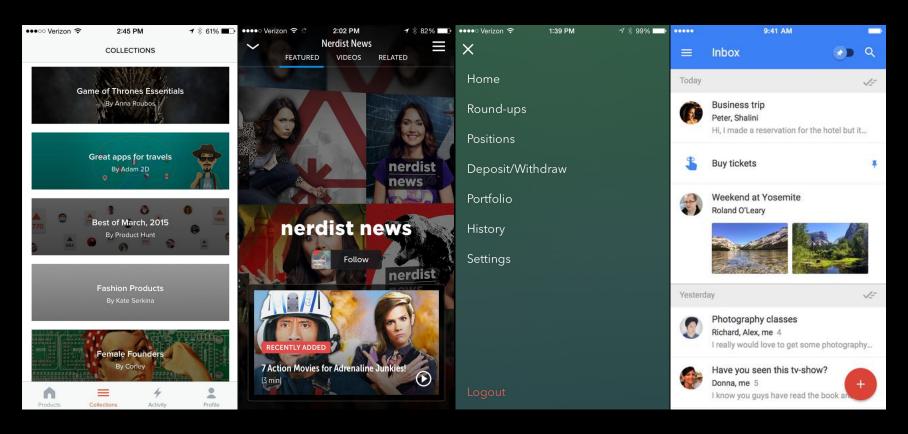


Don't forget about me, the keyboard!

WARM WELCOME

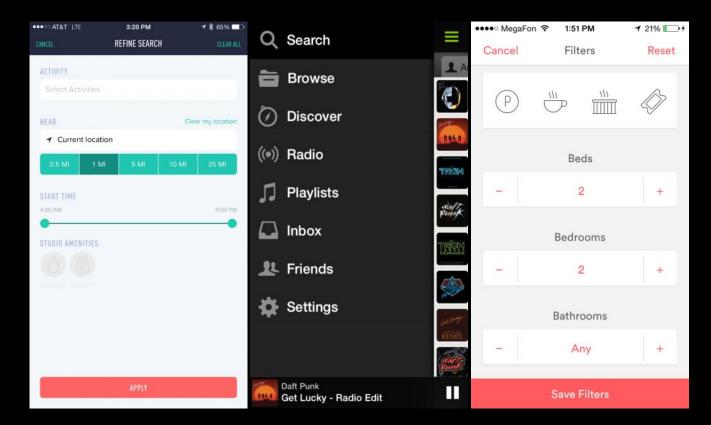


NAVIGATION

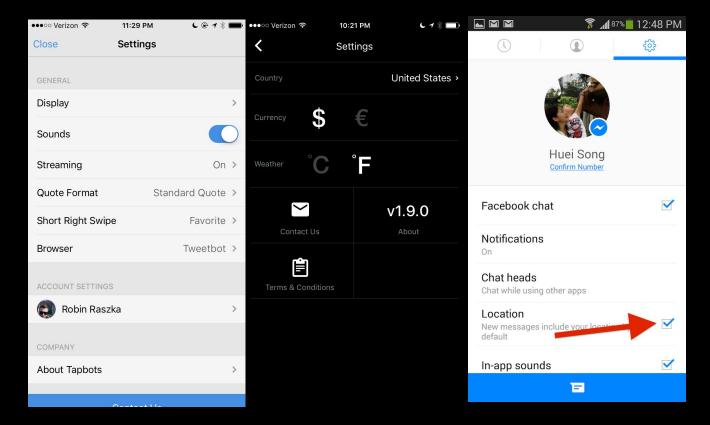


Bottom Buttons Top Tabs Overlays Hamburger Icon

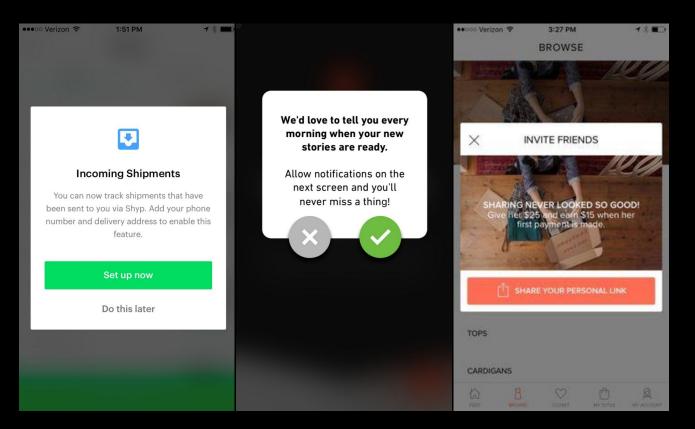
SEARCH



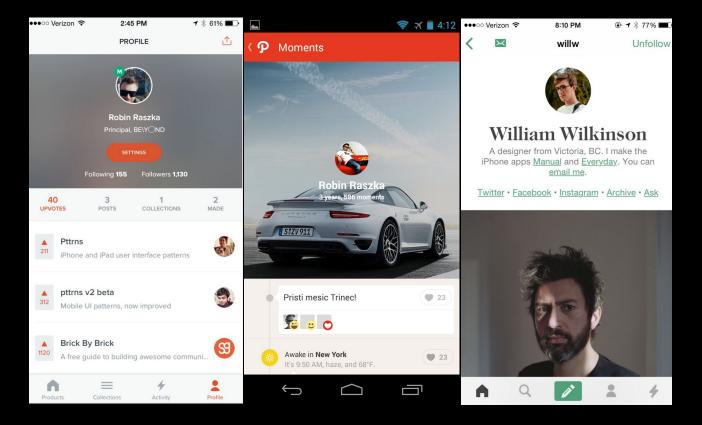
SETTINGS



MODALS



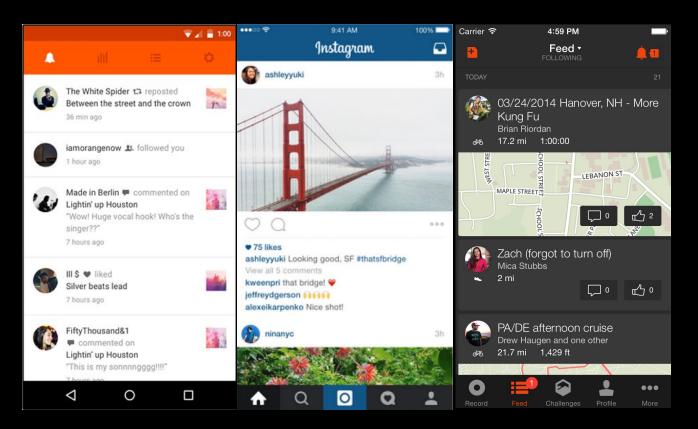
PROFILES



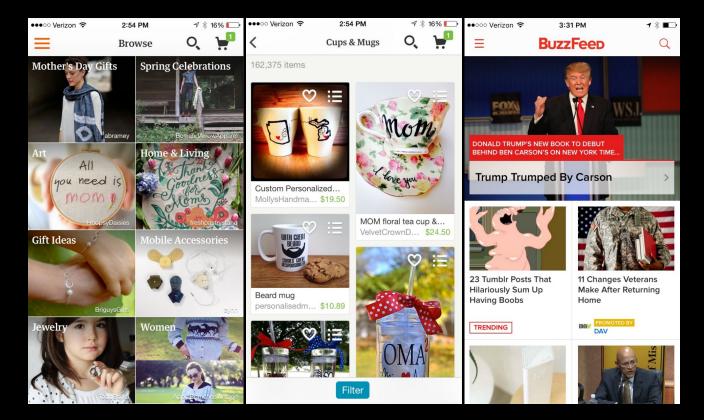
LISTS



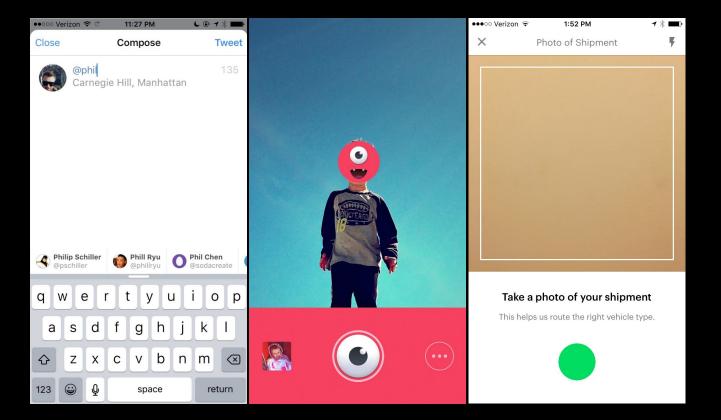
FEEDS



GRIDS



ACTIONS



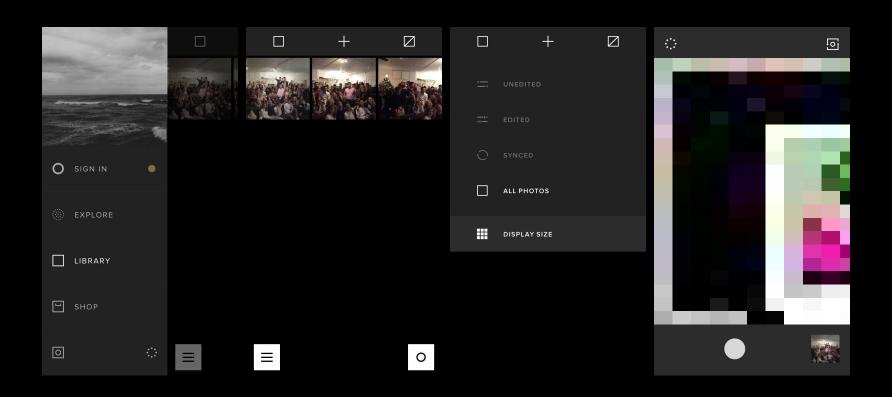


INSTAGRAM





VSCO

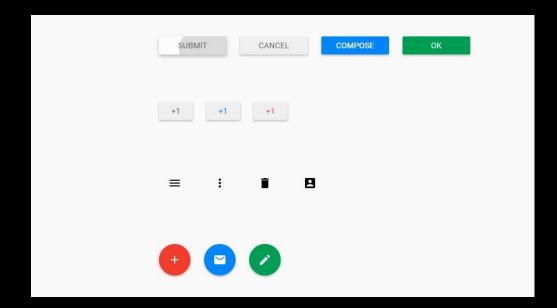


SO WHAT MAKES A SUCCESSFULLY DESIGNED APP?

ICONS

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***	\$	<u></u>	+	>	1	r.	P	*	Î	Ŧ	
4	b	<u>A</u>	+	45	į,	~		(t)		9	×××

BUTTONS



COLOR PALETTE

	_				
	#F44336	500	#E91E63	500	#9C27B0
	#E53935	600	#D81B60	600	#8E24AA
	#D32F2F	700	#C2185B	700	#7B1FA2
800	#C62828	800	#AD1457	800	#6A1B9A
900	#B71C1C	900	#880E4F	900	#4A148C
A100	#FF8A80	A100	#FF80AB	A100	#EA80FC
	#FF5252	A200	#FF4081	A200	#E040FB
A400	#FF1744	A400	#F50057	A400	#D500F9
A700	#D50000	A700	#C51162	A700	#AA00FF
Deep Purple		Indigo		Blue	
500	#673AB7	500	#3F51B5	500	#2196F3
50	#EDE7F6	50	#E8EAF6	50	#E3F2FD
100	#D1C4E9	100	#C5CAE9	100	#BBDEFB
200	#B39DDB	200	#9FA8DA	200	#90CAF9
	#9575CD	300	#7986CB	300	#64B5F6

TYPOGRAPHY

Roboto

Headline

Regular 24pt

Title

Medium 20pt

Subheader Body 2 / Menu Regular 16pt

---, -

Medium 14pt

Body 1

Regular 14pt

Caption

Regular 12pt

BUTTON

MEDIUM 14PT

Light theme default type color

Default light bg:

Google Grey 200, #EEEEEE

Dark theme default type color

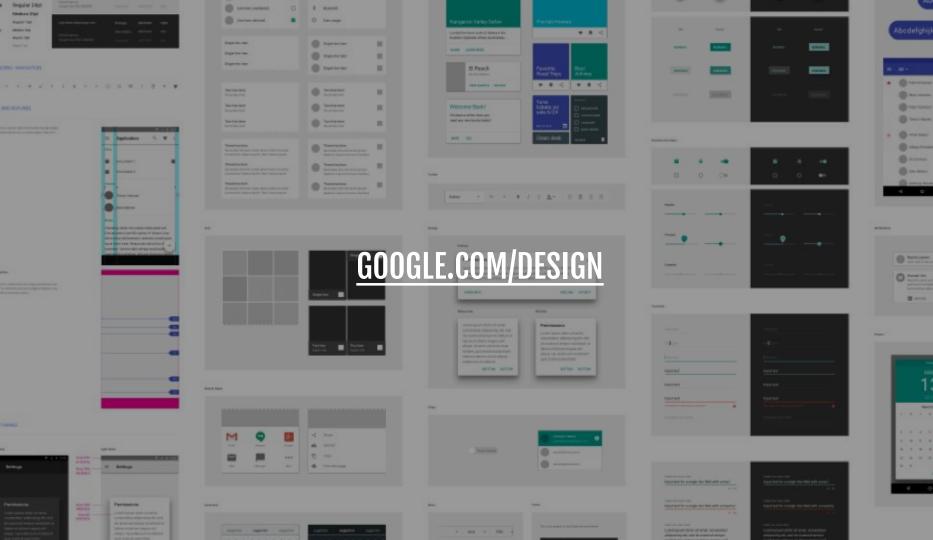
Default dark bg:

Google Grey 900, #212121

IMAGERY







DISCUSSION:

WHAT APPS HAVE YOU USED LATELY THAT ARE DESIGNED AND BRANDED SUCCESSFULLY?

WHAT APPS HAVE YOU USED THAT AREN'T?

QUESTIONS?

APP DESIGN INSPIRATION

http://www.pttrns.com/

http://www.mobile-patterns.com/

http://inspired-ui.com/

https://www.cocoacontrols.com/

http://www.lovelyui.com/

http://androidux.com/

https://developer.yahoo.com/ypatterns/about/libraries.html

DESIGNER MEETUPS

Maker Club

Designer Meetups

Creative mornings

Archive

PRINCIPLES OF INTERACTION DESIGN

ALWAYS THINK ABOUT THE USER

PRINCIPLE 2

PRINCIPLE 3

PRINCIPLE 4

PRINCIPLE 5

USER EXPERIENCE

TOTAL USER EXPERIENCE OR THE 5 E'S

Considering the big(ger) picture

Whether it's a product or a service:

There's an experience in the discovery

There's an experience in the purchase

There's an experience in the delivery

There's an experience in the use/service

There's an experience in the sharing

THE 5 E'S



DEFINE THE ACTORS

MAP HOW THE ACTORS PLAY TO EACH OTHER

DEFINE "MAGIC MOMENTS"
HOW DOES THE BRAND MANIFEST IN THE STORY

EX. ACTORS

PARENTS

Use + manage usage of others

KIDS

Use with permission

ALLOWERS

Approve and allow use at a high level (e.g. politician)

IMAGINEERS

Imagine and design the good (e.g. Google)

MAKERS

Make the thing (e.g. Belkin)

RETAILERS

Put the thing in your hand (e.g. App Store)

THEN TAKE EACH ACTOR THROUGH THE 5 E'S

5E'S: ENTICE

EN		NTICE	ENTER	ENGAGE	EXTEND		EXIT	
PROFILES	DISCOVERY	COMMITMENT	OUT OF BOX EXPER.	FIRST USE	FIRST MONTH	NTH MONTH	LAST MONTH	
Define all the actors.	How do they find out about your product?	What's the tipping point that makes the conversion from "I'm curious" to "I'm committed"?						
	Example: Advertising, social media, word of mouth.	Example: In-store experience, test drive, product review.						

5E'S: ENTER

	ENTICE		ENTER	ENGAGE	_	EXTEND	
PROFILES	DISCOVERY	COMMITMENT	OUT OF BOX EXPER.	FIRST USE	FIRST MONTH	NTH MONTH	LAST MONTH
Define all the actors.	How do they find out about your product?	What's the tipping point that makes the conversion from "I'm curious" to "I'm committed"?	What is the unboxing of the physical product like? If it's digital what's the warm welcome or the "welcome to the product" moment?				
	Example: Advertising, social media, word of mouth.	Example: In-store experience, test drive, product review.	Example: App warm welcome, packaging quality, packaging that opens in order of setup.				

5E'S: ENGAGE

	ENTICE		ENTER	ENGAGE	EXTEND		EXIT
PROFILES	DISCOVERY	COMMITMENT	OUT OF BOX EXPER.	FIRST USE	FIRST MONTH	NTH MONTH	LAST MONTH
Define all the actors.	How do they find out about your product?	What's the tipping point that makes the conversion from "I'm curious" to "I'm committed"?	What is the unboxing of the physical product like? If it's digital what's the warm welcome or the "welcome to the product" moment?	How do you capitalize on maximum goodwill? It will never be shinier. Embed it in your user's' lifestyle.			
	Example: Advertising, social media, word of mouth.	Example: In-store experience, test drive, product review.	Example: App warm welcome, packaging quality, packaging that	Example: Instant gratification, moment of joy easter egg, simplicity.			

5E'S: EXTEND

	EN	ITICE	ENTER	ENGAGE	EXT	TEND	EXIT
PROFILES	DISCOVERY	COMMITMENT	OUT OF BOX EXPER.	FIRST USE	FIRST MONTH	NTH MONTH	LAST MONTH
Define all the actors.	How do they find out about your product?	What's the tipping point that makes the conversion from "I'm curious" to "I'm committed"?	What is the unboxing of the physical product like? If it's digital what's the warm welcome or the "welcome to the product" moment?	How do you capitalize on maximum goodwill? It will never be shinier. Embed it in your user's' lifestyle.	How does it get even better with continual use? What moment only surfaces after repeated use?	What's better than better? How does it accrue value over time? How do you continuously optimize the experience?	
	Example: Advertising, social media, word of mouth.	Example: In-store experience, test drive, product review.	Example: App warm welcome, packaging quality, packaging that opens in order of setup.	Example: Instant gratification, moment of joy easter egg, simplicity.	Example: Actionable analytics, more easter eggs, machine learning.	Example: Idiot-proof trouble-shooting and service, unlock rewards or bonuses, additional products/add ons.	

5E'S: EXIT

	E	NTICE	ENTER	ENGAGE	EX	TEND	EXIT
PROFILES	DISCOVERY	COMMITMENT	OUT OF BOX EXPER.	FIRST USE	FIRST MONTH	NTH MONTH	LAST MONTH
Define all the actors.	How do they find out about your product?	What's the tipping point that makes the conversion from "I'm curious" to "I'm committed"?	What is the unboxing of the physical product like? If it's digital what's the warm welcome or the "welcome to the product" moment?	How do you capitalize on maximum goodwill? It will never be shinier. Embed it in your user's' lifestyle.	How does it get even better with continual use? What moment only surfaces after repeated use?	What's better than better? How does it accrue value over time? How do you continuously optimize the experience?	What happens when the user decides to leave the product? Do they have to: Can you get them to retur to the product?
	Example: Advertising, social media, word of mouth.	Example: In-store experience, test drive, product review.	Example: App warm welcome, packaging quality, packaging that opens in order of setup.	Example: Instant gratification, moment of joy easter egg, simplicity.	Example: Actionable analytics, more easter eggs, machine learning.	Example: Idiot-proof trouble-shooting and service, unlock rewards or bonuses, additional products/add ons.	Example: No hassle returns, easy service termination, new produc releases or updates.

FOR EXAMPLE



ENTICE

User sees Google On sign on the subway platform



ENTICE

Decides to try it: finds the network and downloads the Google On app



ENTER

Enjoys a great Google On Wi-Fi experience



ENGAGE

Delighted to see it actually works on the subway too...

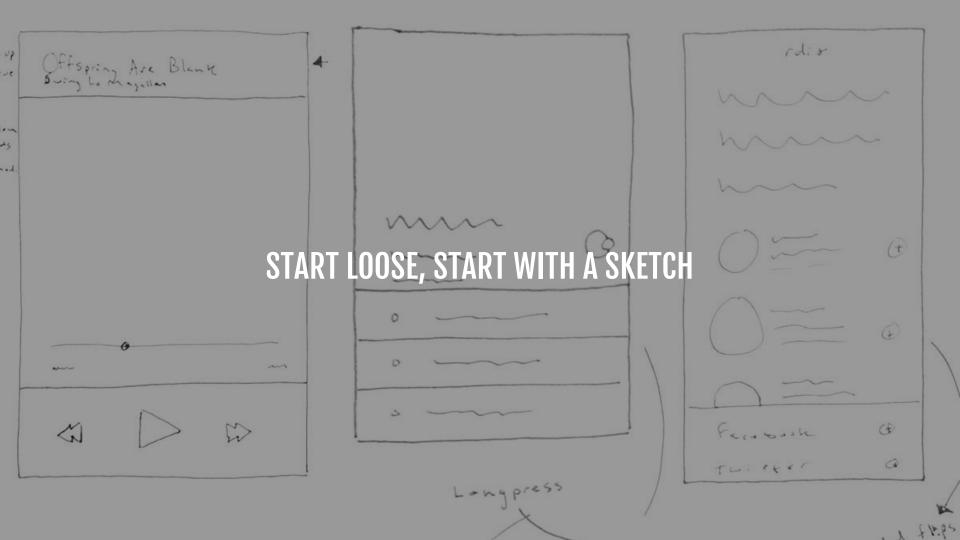


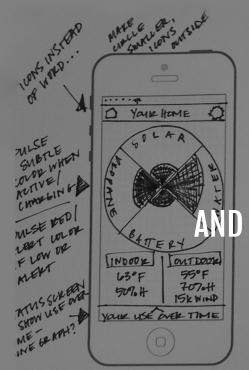
EXTEND

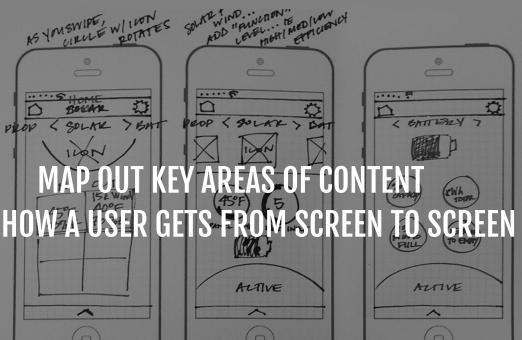
Decides to bring it home and purchases a new OnHub

WIREFRAMES

THINK OF A WIREFRAME AS THE SKELETON OF YOUR APP OR SITE







BAT TIME TO JUST MIT

