GENERAL ASSEMBLY

PROGRAMMING FOR NON-PROGRAMMERS

Chris Castiglione @castig | pfnp.me

THE QUESTION

How do I communicate an idea from my head... to a computer?



1. WEB DEV PROCESS

2. WHICH LANGUAGE?

3. CODE!

1. WEB DEV PROCESS

2. WHICH LANGUAGE?

3. CODE!

1. WEB DEV PROCESS

2. WHICH LANGUAGE?

3. CODE!

What is Programming? (...and why do I care?)

PROGRAMMING

- a set of instructions
- used to solve a problem



find two slices of bread



- find two slices of bread
- spread peanut butter on one slice of bread



- find two slices of bread
- spread peanut butter on one slice of bread
- spread jelly on the other slice of bread



- find two slices of bread
- spread peanut butter on one slice of bread
- spread jelly on the other slice of bread
- put the two slices of bread together



PROBLEM SOLVED!



PROGRAMMING

- a set of instructions
- used to solve a problem

WHY ARE WE HERE?

• to learn to think like a developer

WHY ARE WE HERE?

- to learn to think like a developer
- to understand the tools (aka. Programming Languages)

WHY ARE WE HERE?

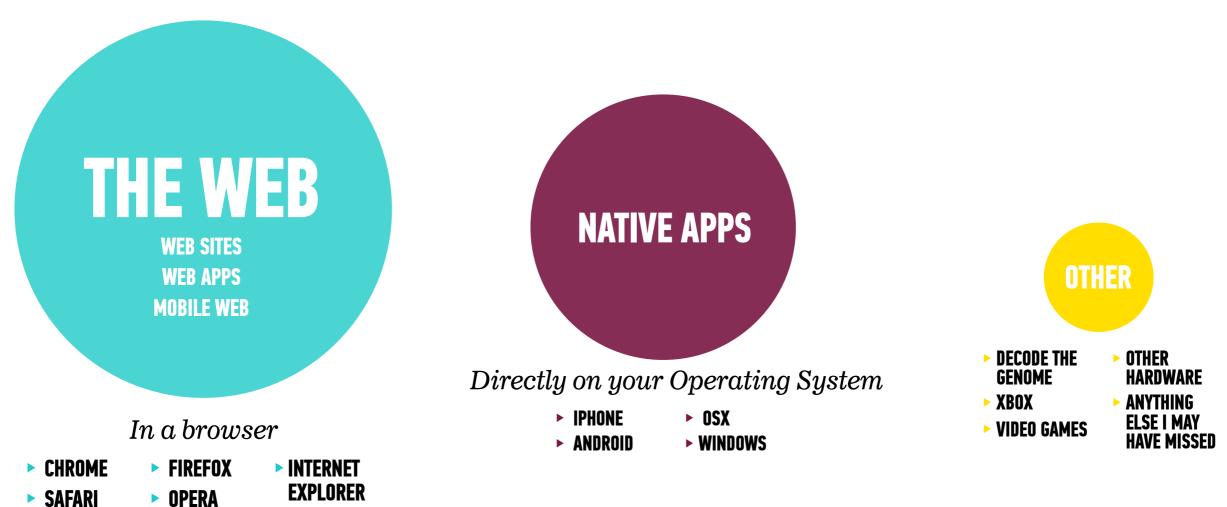
- to learn to think like a developer
- to understand the tools (aka. Programming Languages)
- and to understand the constraints

GENERAL ASSEMBLY

L WEB DEV PROCESS Understand the Problem

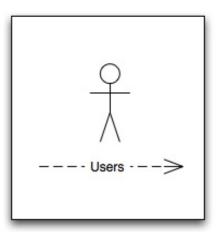
Vocabulary

VOCABULARY



[1. PLAN] [2. DESIGN] [3. DEVELOP]

PRODUCT DEVELOPMENT

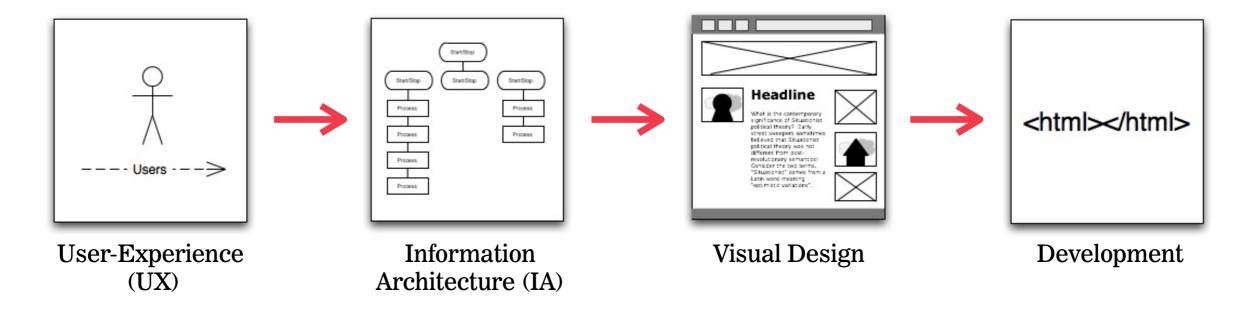


- MVP Minimal Viable Product
 - Minimum features needed to test your assumptions
 - Build, Measure, Learn
 - Validate your idea

The worst thing is to build something that no body wants.

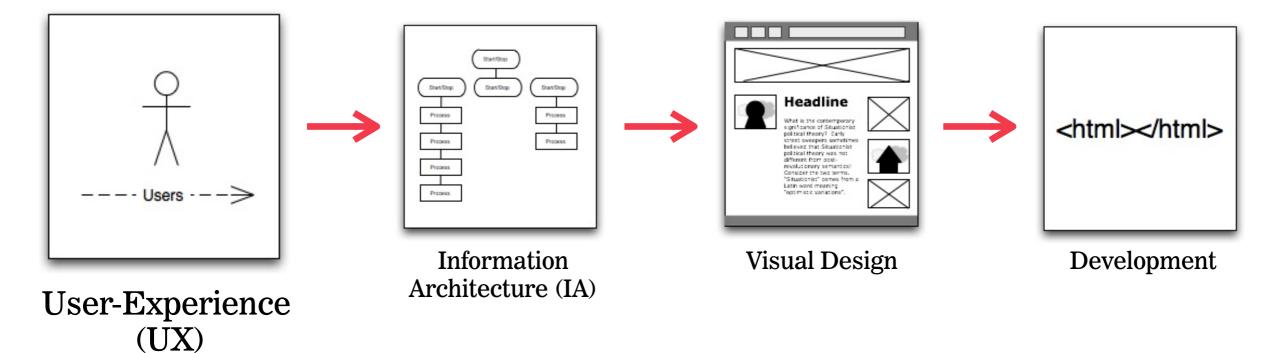
[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



DERENJACIEROF



Have an Account? Login



SIGN UP, Bet on LIVE RACES and WIN REAL CASH!





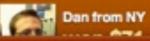








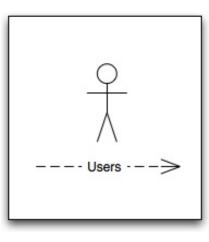






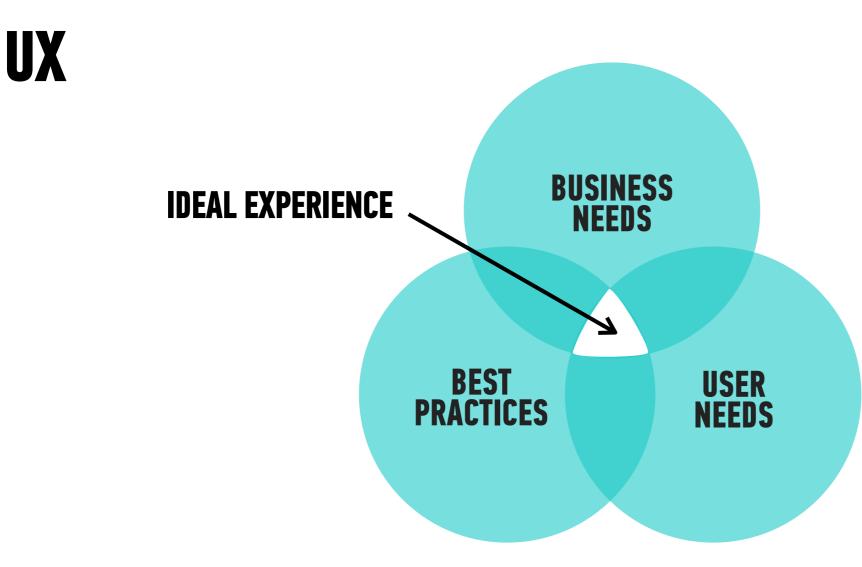
[1. PLAN] [2. DESIGN] [3. DEVELOP]

USER-EXPERIENCE (UX)



- Who are our users?
- How do we know if the user is hitting their goals?
- What are the most important features of this site?
- What does the program do when there are errors?
- What are the biggest risks?

[1. PLAN] [2. DESIGN] [3. DEVELOP]



"I want all of the features!"

[1. PLAN] [2. DESIGN] [3. DEVELOP]

CASE STUDY: IDEAS, FEATURES, GOALS

CONVERSION

and then a reason

Have an Account?

PROGRAMMING FOR NON-PROGRAMMERS

[1. PLAN] [2. DESIGN] [3. DEVELOP]



[1. PLAN] [2. DESIGN] [3. DEVELOP]

CASE STUDY: USER RESEARCH



[1. PLAN] [2. DESIGN] [3. DEVELOP]

CASE STUDY PERSONAS



Mary Dickinson, North Dakota



John Long Island, New York

[1. PLAN] [2. DESIGN] [3. DEVELOP]

PERSONAS: WHAT JOHN CARES ABOUT...

- Has 5+ computers in his home but says he would gamble on his iPad or a PC netbook running Firefox primarily.
- Has an iPhone 4, can't wait to convince his wife he needs the new one. Doesn't think he would gamble on the iPhone but could see wanting to check his account.
- Has a Facebook and Twitter profile but would not want to use it to setup an account. He would like to be able to see who of his Twitter and Facebook friends is playing the game however.
- Watches video online, sports clips mostly.
- Pays for Netflix.
- Does most, if not all, shopping online out of convenience and selection.

[1. PLAN] [2. DESIGN] [3. DEVELOP]

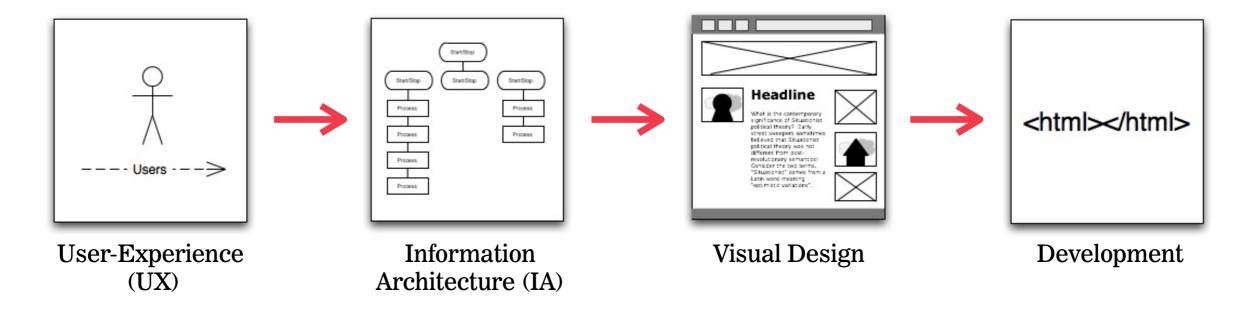
PERSONAS: WHAT JOHN CARES ABOUT

- This isn't sketchy is it?
- How can I get my friends involved?
- How often are the races on the weekends?
- How good quality are the videos?
- How will the load time be on my iPad?
- How much do I need to play?
- How much could I win?
- Do I need to know about horses to make smart bets?

Information Architecture

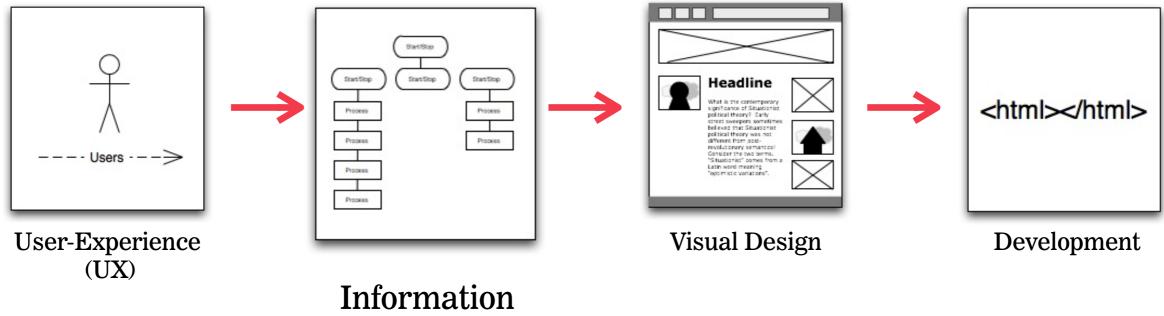
[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



Architecture (IA)

[1. PLAN] [2. DESIGN] [3. DEVELOP]

INFORMATION ARCHITECTURE (IA)

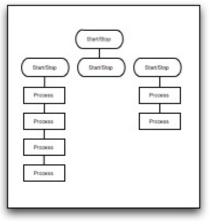
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A model or blueprint for the site, resulting in deliverables such as:

- wireframes
- flow diagrams
- sitemap

[1. PLAN] [2. DESIGN] [3. DEVELOP]

IA: THE BLUEPRINT



SITEMAPS & FLOW DIAGRAMS

Establish flow and order

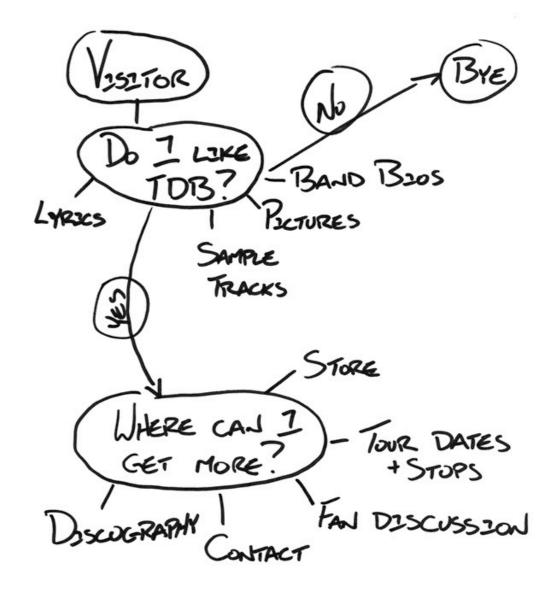
Headline What is the contemporary significance of Shaatonist policial theory Carly believed that Shaatoniat policial theory was not different form pool- revolutionary semanted Consider the west sema. "Shaatoniat" comes from a Laten word meaning "optimistic variations".	

WIREFRAMES & CONTENT

Define the user interaction and ease the handoff process to the creative team

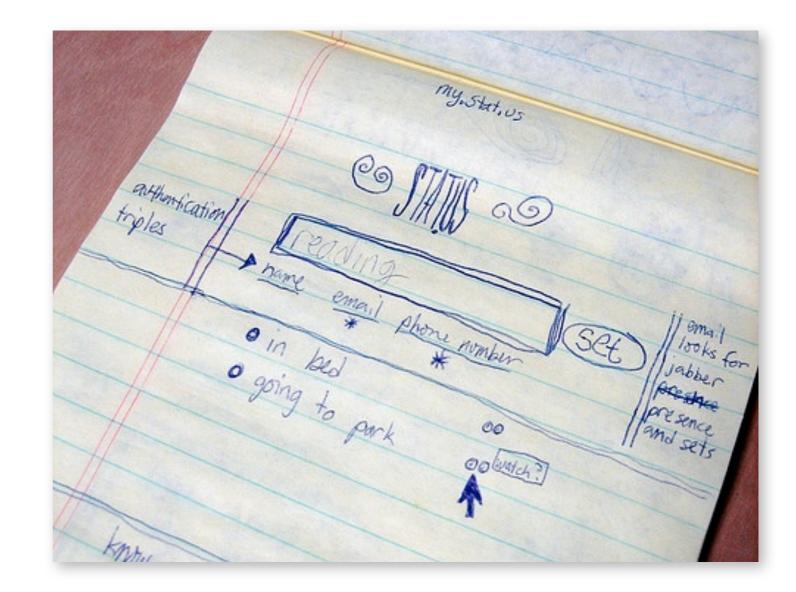
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BRAINSTORMING

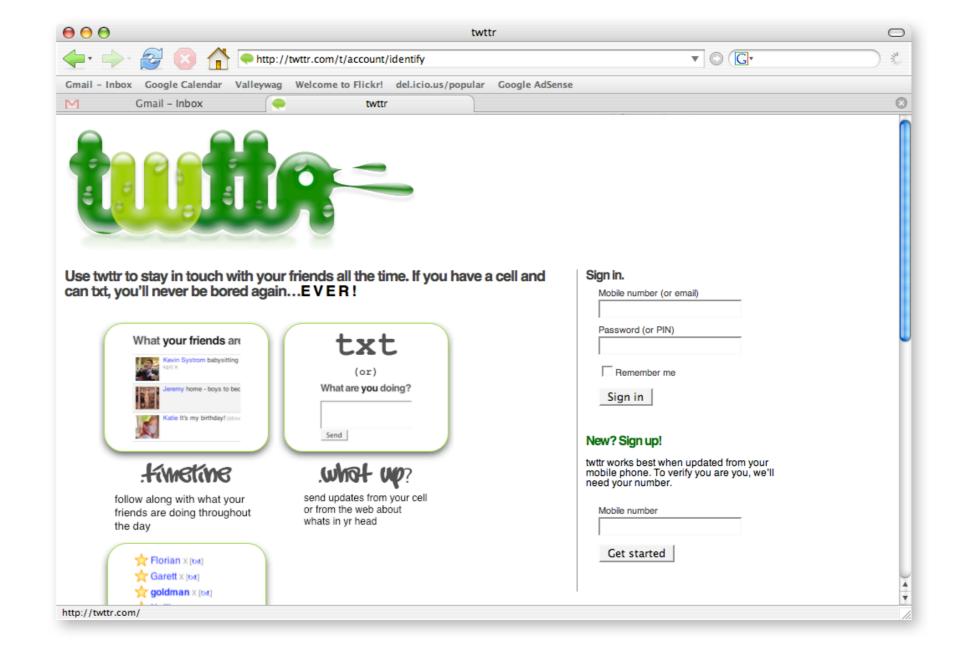


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BRAINSTORMING

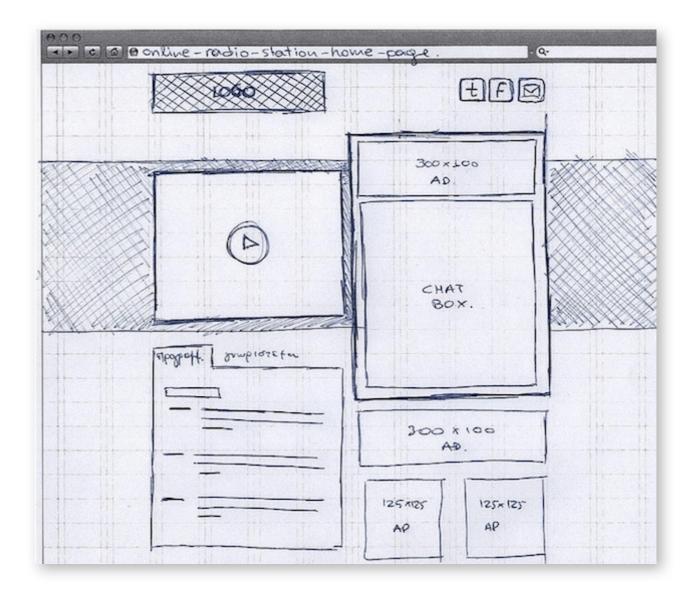


TWITTER (PROTOTYPE)



[1. PLAN] [2. DESIGN] [3. DEVELOP]

LOW FIDELITY MOCKUPS



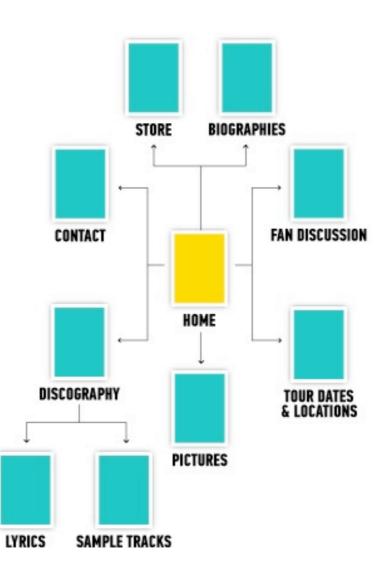
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HIGH FIDELITY MOCKUPS

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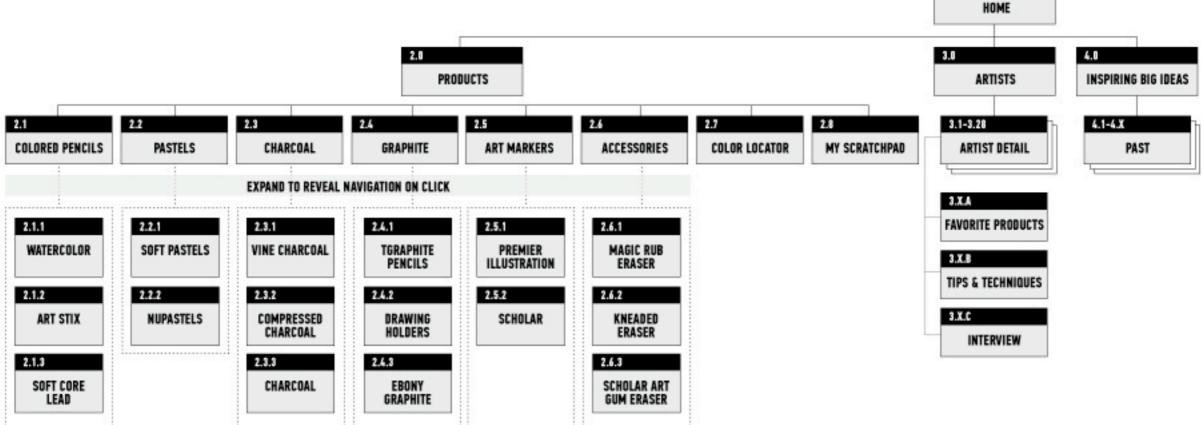
[1. PLAN] [2. DESIGN] [3. DEVELOP]

SMALL SITE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

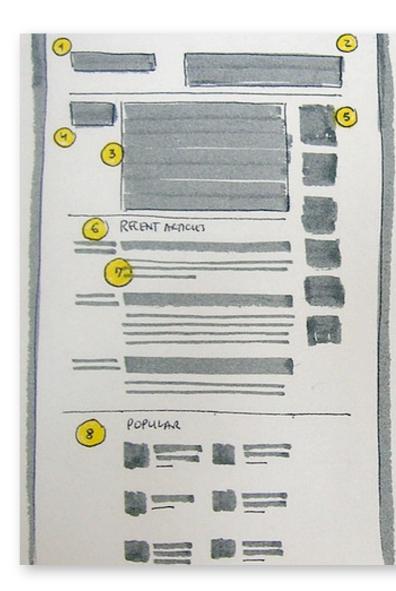
LARGE SITE



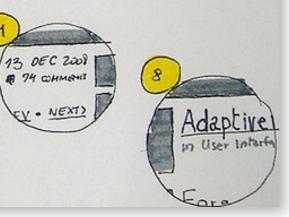
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[1. PLAN] [2. DESIGN] [3. DEVELOP]

FUNCTIONAL

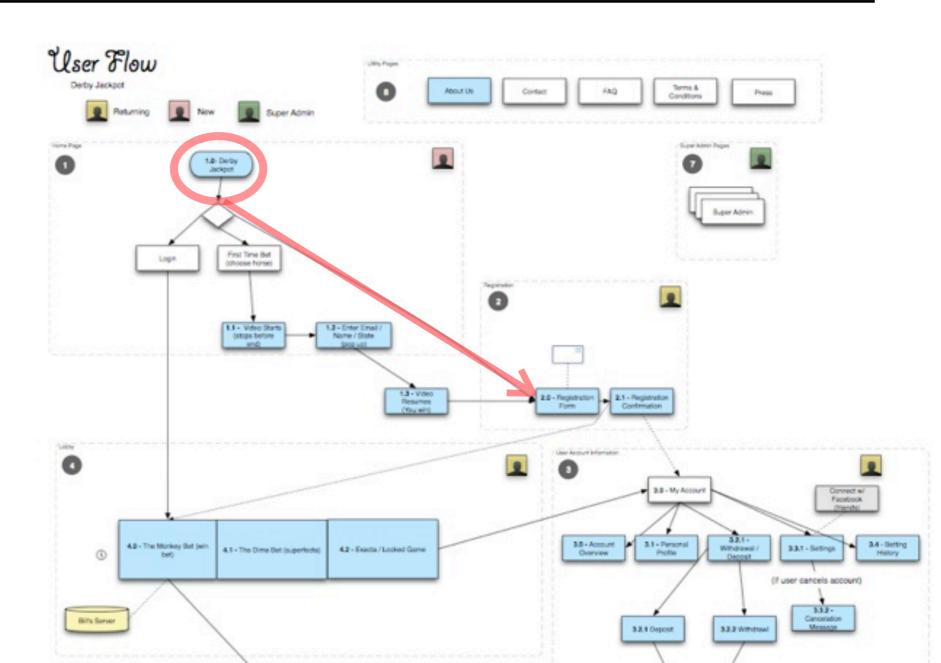


- 1 WHO MUD TABLINE
- 2 NAVIGATION, SPACEH & FUBSOCIBE
- 3 LANEST ARTICLE PREVIEW
- 4 LATEST MUTCLE CANAD & INFO
- 5 ADS 125 475
- G RECENT POITS AREA, CHOWING LATEST FIVE ANCTICUES WITH LANK TO AROHIE AT THE FLO. ARCHUE LOUIS THE SAME AS THIS VIEW. MAY BE TO INCLUDE CATERDRY?
- 7 EACH ARTICLE HAS TITLE, DESCRIPTION AND CALENDAR & INPO
- 8 POYULAR PONT SHOWS 6 MOST POPULA POSITS: 2 PROM ACTICLES, 2 FREEDLES AND 2 TUTO RIMLS. EACH ARTIONE HAS TITLE AND CATEZONY/DATE? IS DATE REFERENCE?



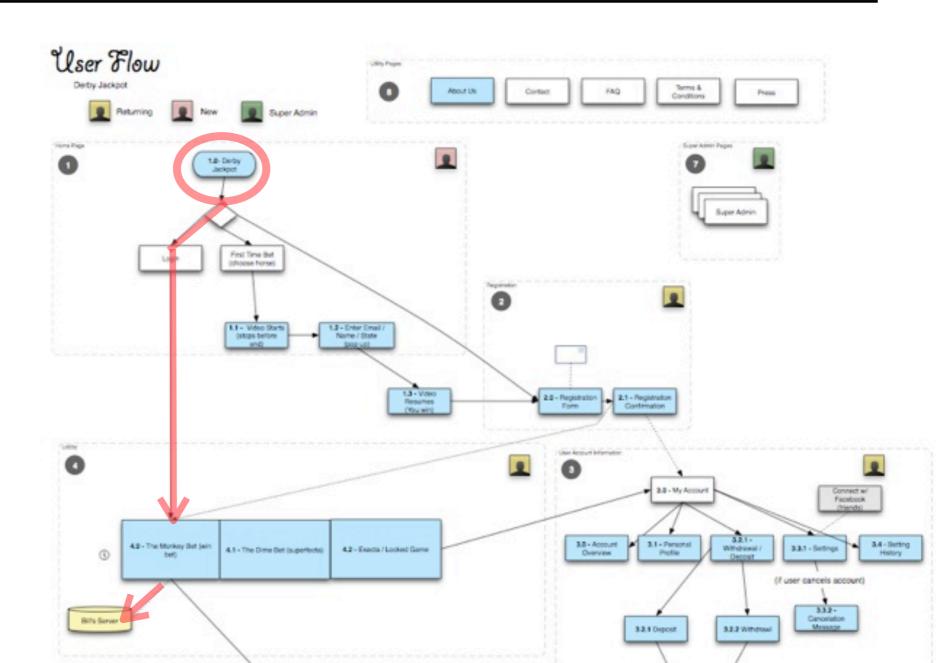
[1. PLAN] [2. DESIGN] [3. DEVELOP]

FLOW DIAGRAM



[1. PLAN] [2. DESIGN] [3. DEVELOP]

FLOW DIAGRAM



[1. PLAN] [2. DESIGN] [3. DEVELOP]

iPHONE WIREFRAMES



[1. PLAN] [2. DESIGN] [3. DEVELOP]

FOURSQUARE

Places	click header to bring up filters		Places: Filter		
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Places Nearby 36 Cooper Square, NY	*	MAP	slides up	Show me	places:
9 Search Places			from bottom	NEARBY:	
Most Popular	Closest			Gurrent location: 36 Cooper Squa	are, NY
Trending				All NYC	
The Scratcher √x23 124 5th St. @ 3rd Ave			Select a location		
15 last 3 hrs				NARROW YOUR SE	EARCH?
Your Favorites The Scratcher 124 5th St. @ 3rd Ave		√x23		restaurants (23)	cafes (12)
The Scratcher 124 5th St. @ 3rd Ave		√x23			
Friend Favorites		1		bars (23)	wine bars (12
The Scratcher 124 5th St. @ 3rd Ave				more categories	
The Scratcher 124 5th St. @ 3rd Ave		√x23			
All Foursquare					
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People Places	Tips	Mo			

Places: Filter - Select a location

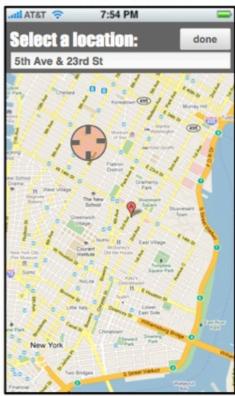
done

takeout (12)

clubs (12)

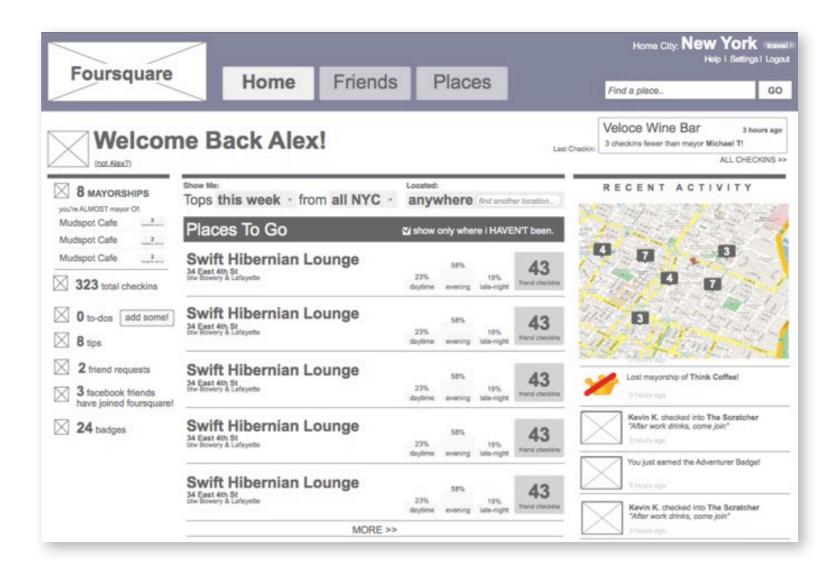
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[1. PLAN] [2. DESIGN] [3. DEVELOP]

FOURSQUARE



PUT STUFF HERE LATER

HEADER 2

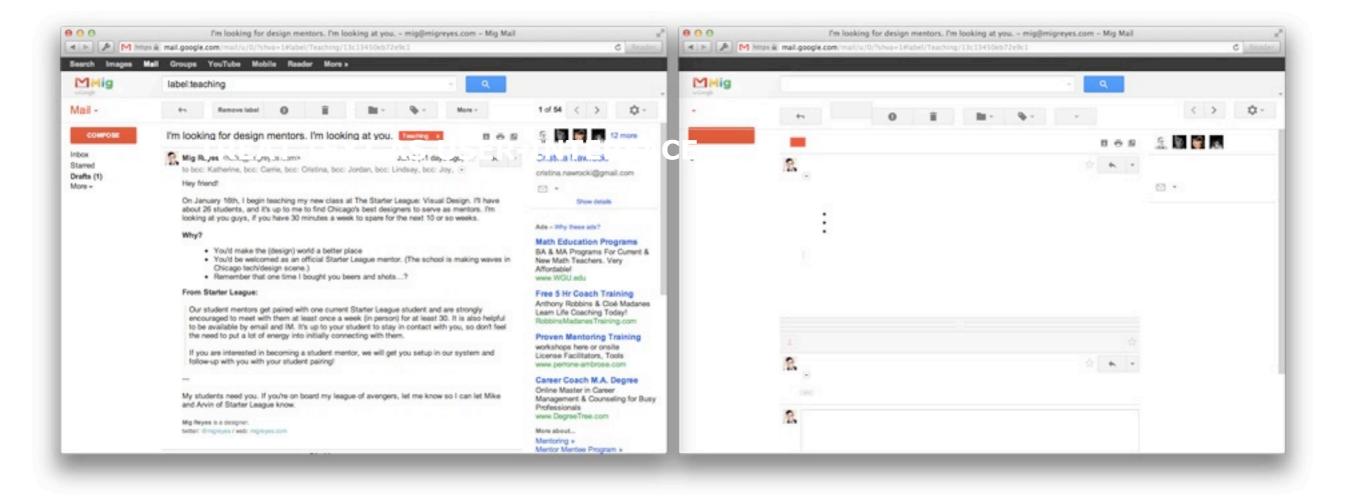
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CONTENT STRATEGY

TREAT TEXT AS USER-INTERFACE

Typography has one plain duty before it and that is to convey information in writing. No argument or consideration can absolve typography from this duty. A printed work which cannot be read becomes a product without purpose.

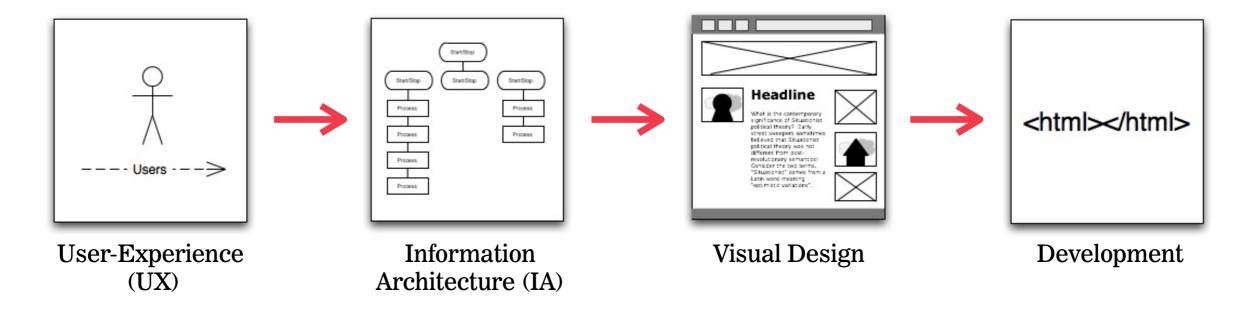
DESIGN. IS ABOUT WORDS.



Visual Design

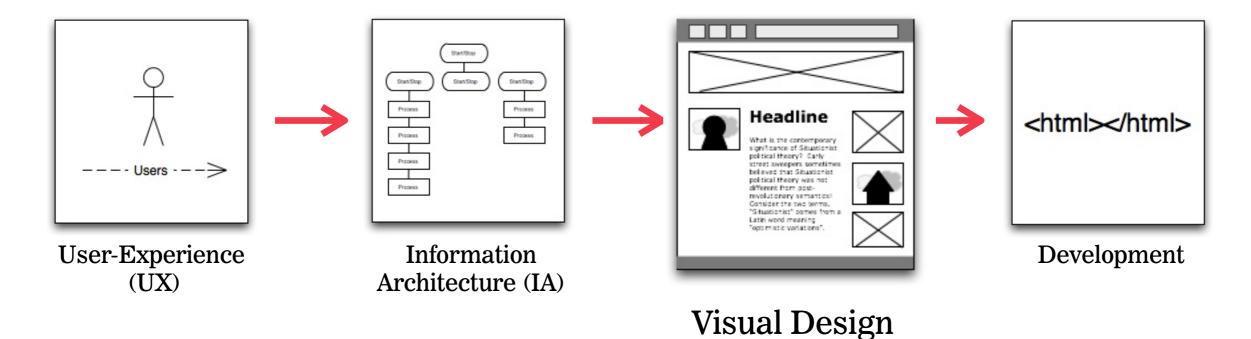
[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

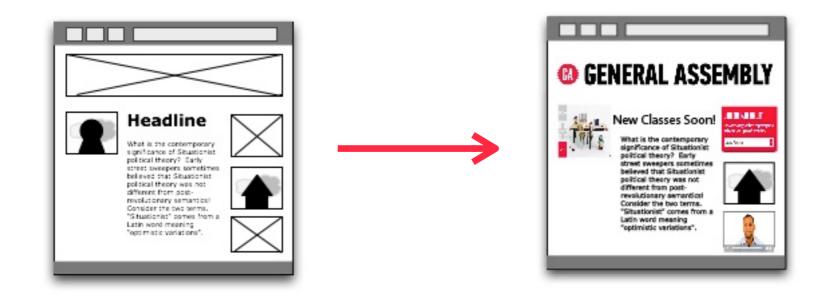
A TYPICAL WEB DEVELOPMENT CYCLE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

VISUAL DESIGN

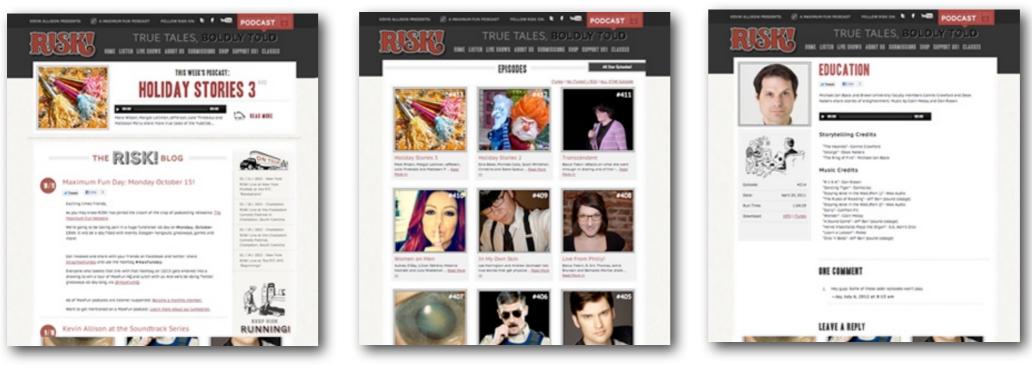
Wireframes become design comps



[1. PLAN] [2. DESIGN] [3. DEVELOP]

VISUAL DESIGN

Each wireframe template becomes a comp template



Homepage

Listen

[1. PLAN] [2. DESIGN] [3. DEVELOP]

STYLE GUIDE



Style Tile



Final

source: <u>www.risk-show.com</u>

VISUAL DESIGN

PRINT

- CMYK
- inches
- 300 dpi
- Illustrator / InDesign
- PDF, Word Doc

DIGITAL

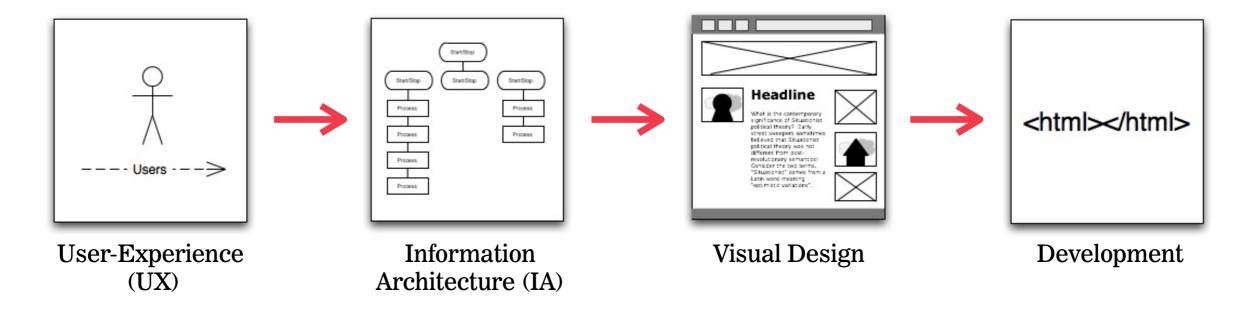
• RGB

- pixels
- 72 dpi
- Photoshop (for the Web)
- PNG, JPG, GIF

Development

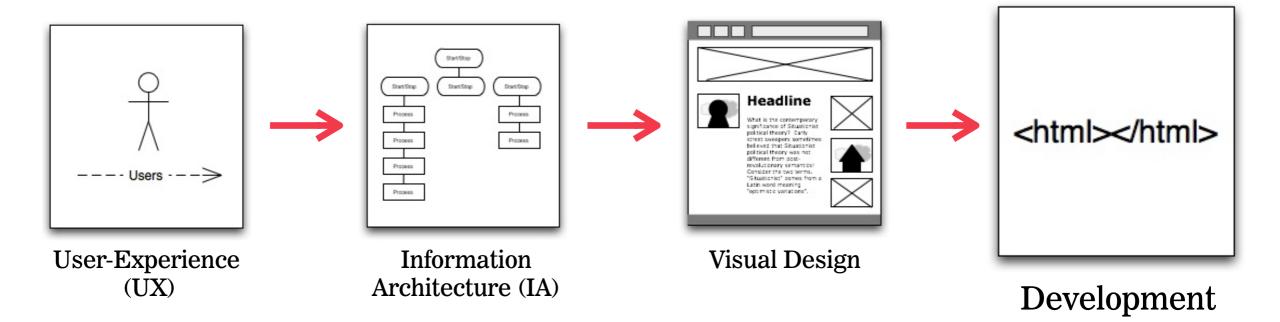
[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

A TYPICAL WEB DEVELOPMENT CYCLE



[1. PLAN] [2. DESIGN] [3. DEVELOP]

DEVELOPMENT

Comps become graphics & real text

[1. PLAN] [2. DESIGN] [3. DEVELOP]

DEVELOPMENT

Comps become graphics & real text



general-assembly-logo.png



social-media.png



Real Text:

General Assembly offers classes, and events at the intersection of technology, design, and entrepreneurship. Together with our members, thought leaders, and seasoned practitioners, we offer a robust curriculum focused on



FRONT-END DEVELOPMENT (noun)

the client-side structure and behavior of a web site; put simply it mostly concerns how things look on the page

BACK-END DEVELOPMENT (noun)

the server-side programming that processes the "business logic", database, web services and other utilities

[1. PLAN] [2. DESIGN] [3. DEVELOP]

DEVELOPMENT

The development process can be broken into two separate responsibilities:

[1. PLAN] [2. DESIGN] [3. DEVELOP]

DEVELOPMENT

The development process can be broken into two separate responsibilities:

FRONT-END WEB DEVELOPMENT

1. Client Side

- 2. How things look to the user
- 3. Involves: Images, content, structure
- 4.HTML, CSS, JavaScript

[1. PLAN] [2. DESIGN] [3. DEVELOP]

DEVELOPMENT

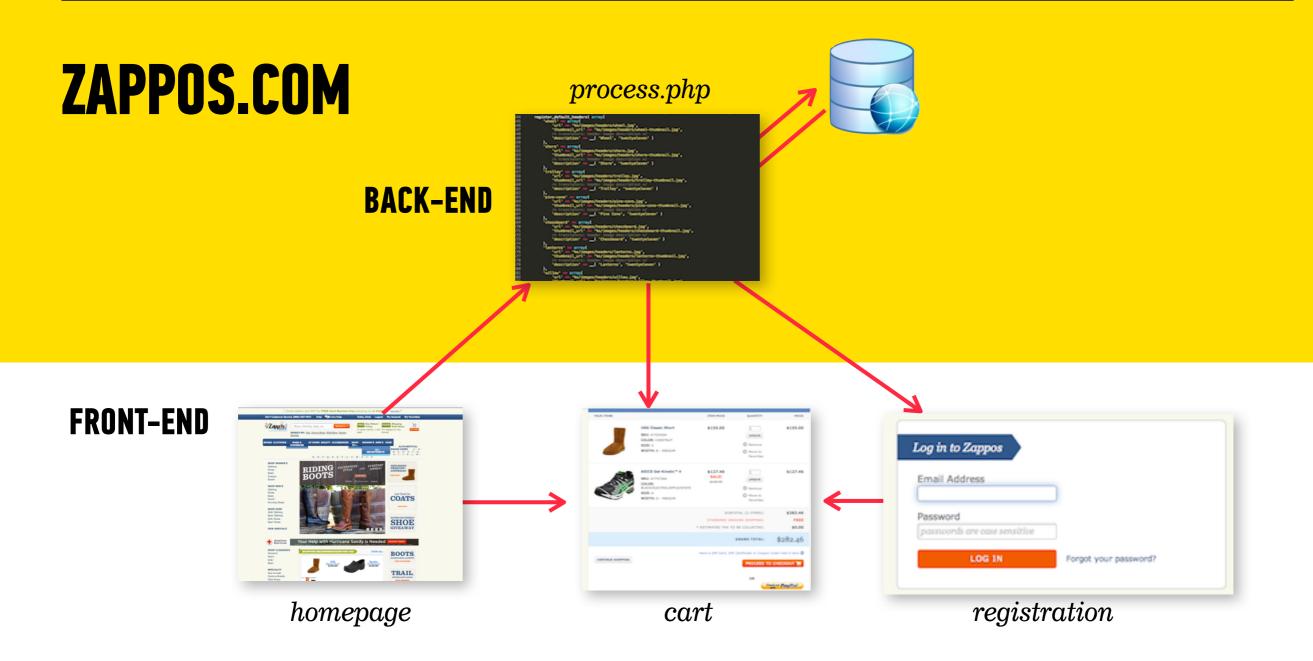
The development process can be broken into two separate responsibilities:

FRONT-END WEB DEVELOPMENT

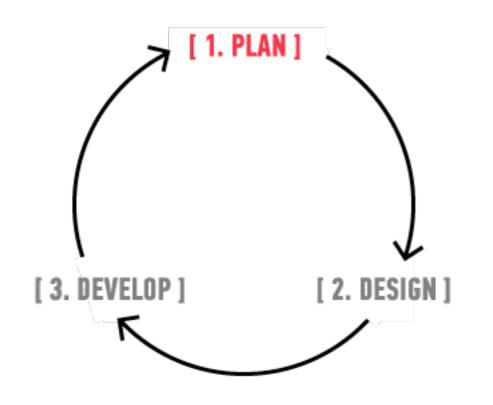
Client Side
 How things look to the user
 Involves: Images, content, structure
 HTML, CSS, JavaScript

BACK-END WEB DEVELOPMENT

Server Side
 How things works
 Involves: "business logic" and data
 Ruby, PHP, C++, Java, etc



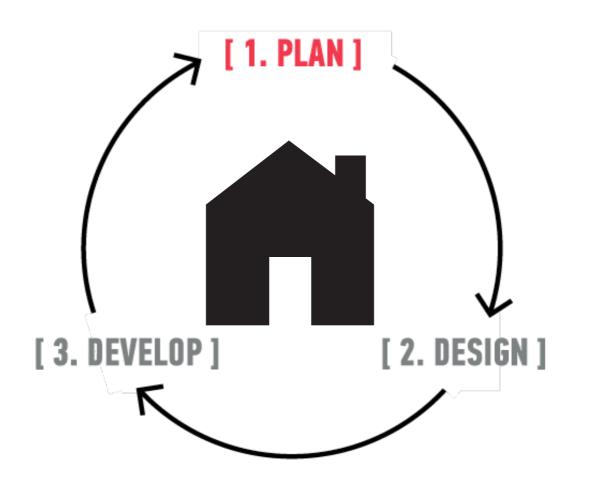
WEB DEVELOPMENT PROCESS

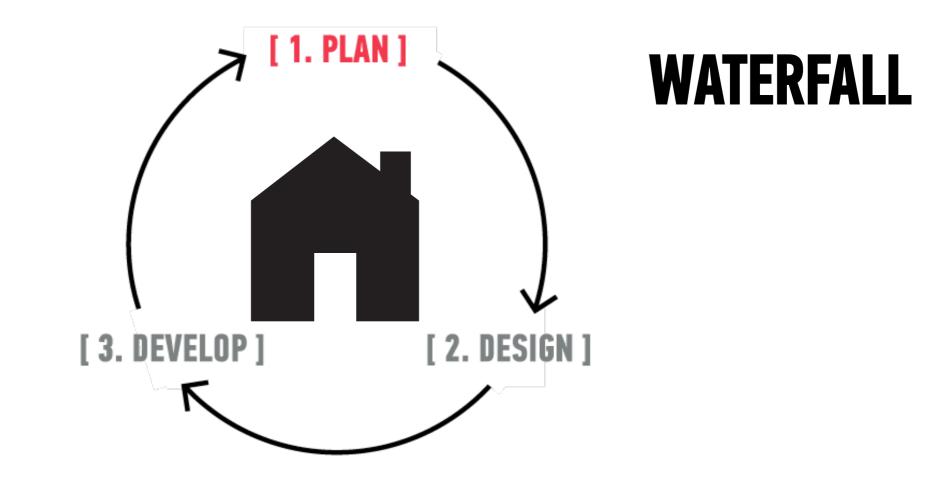


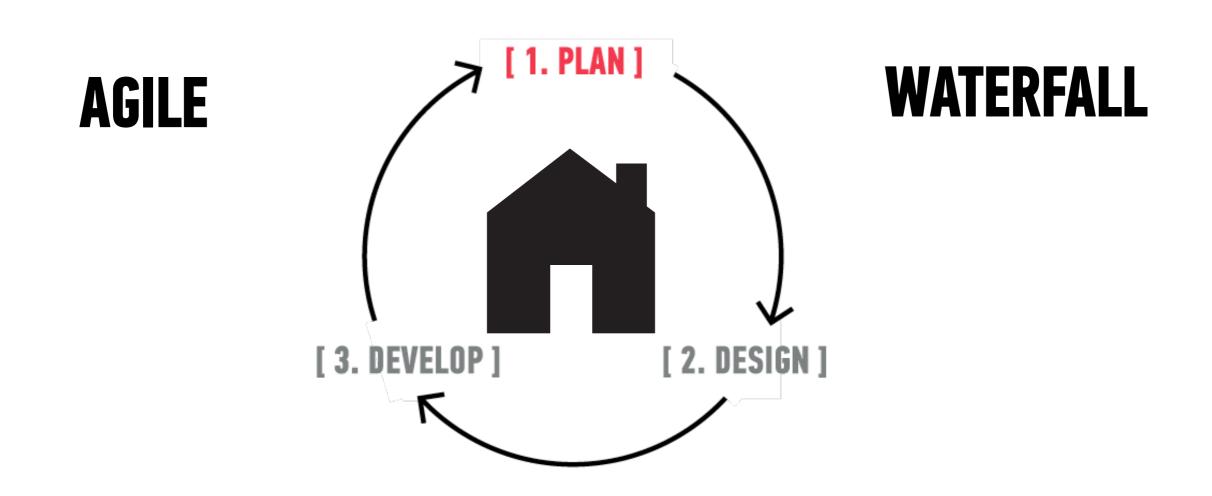
- Product Development
- User Experience
- Information Architecture
- Content Strategy
- Project Manager
- Business Analyst
- Visual Designer
- Front-end developer
- Back-end developer
- Usability
- Security
- SEO Expert
- Analytics Expert
- Quality Assurance (QA) Tester
- Server Administrator
- Growth Hacking

POST-LAUNCH ROLES

- 1. Growth Hacker
- 2.SEO
- **3.Analytics Expert**
- 4. Quality Assurance

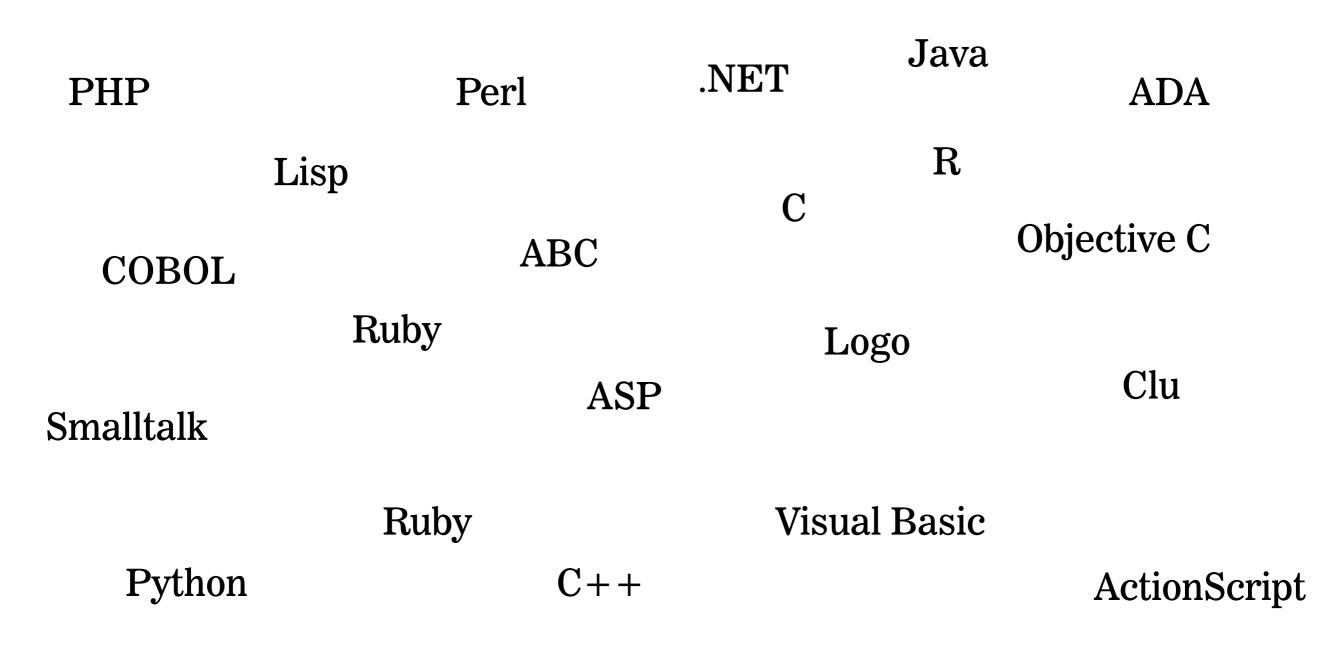


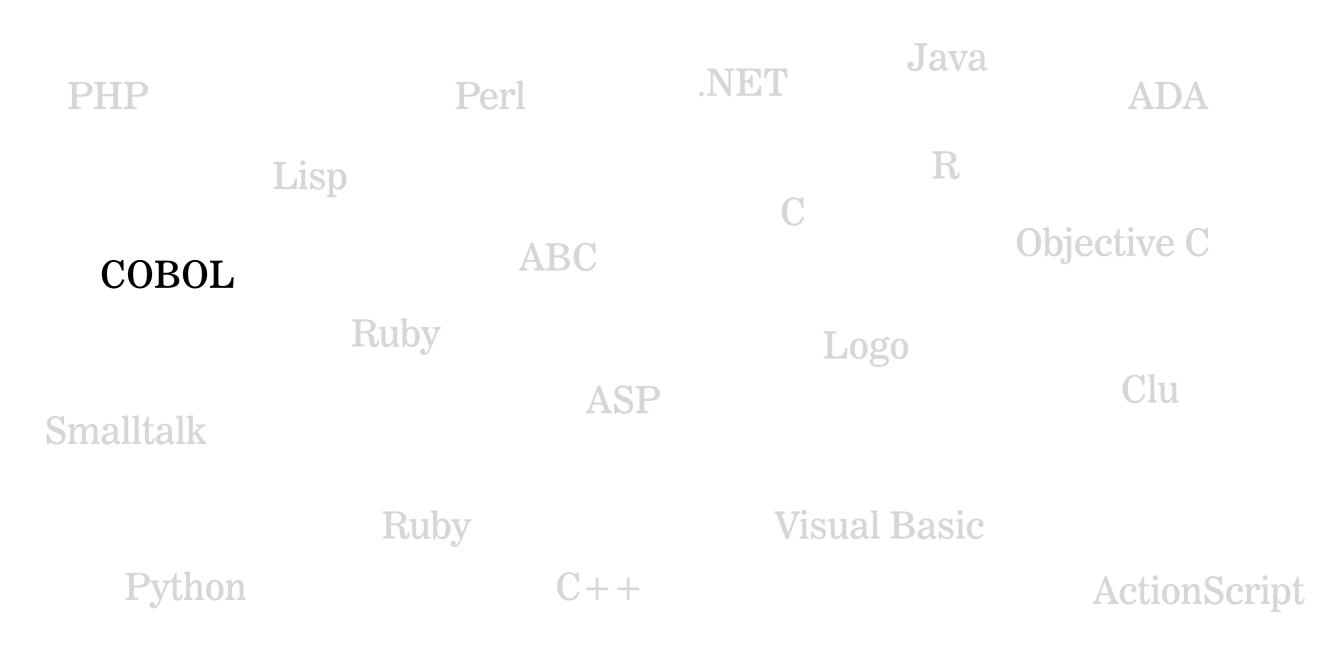


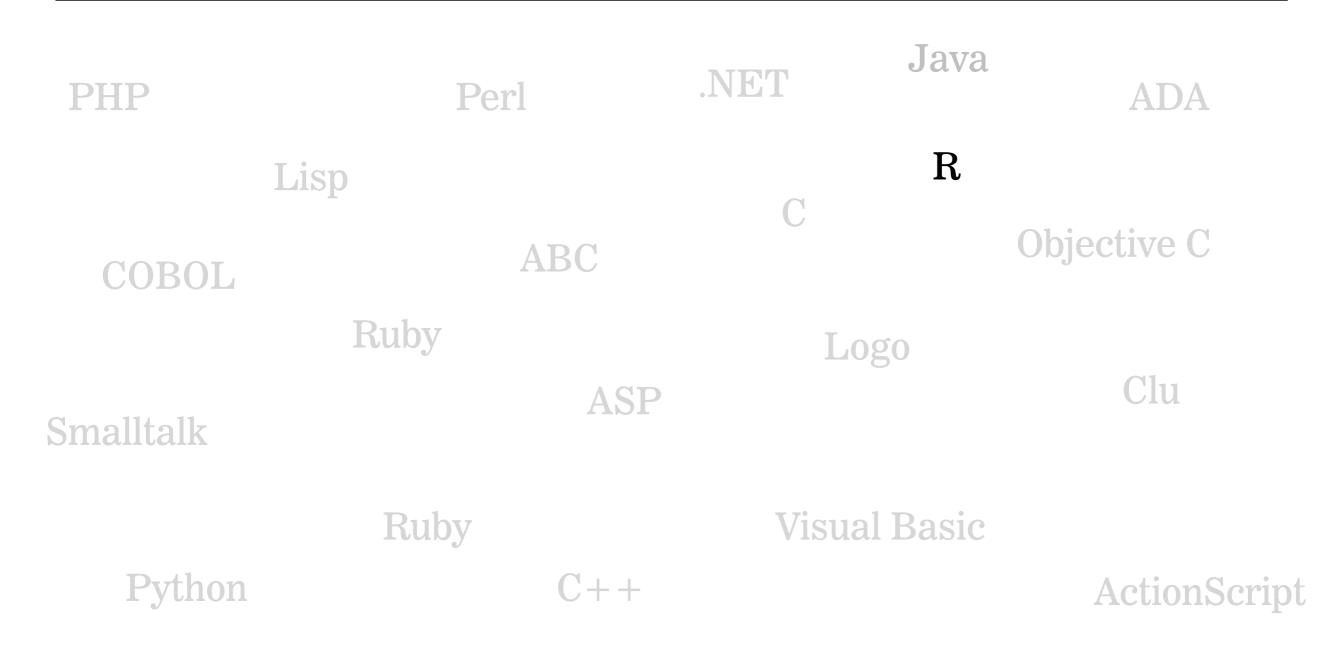


GENERAL ASSEMBLY

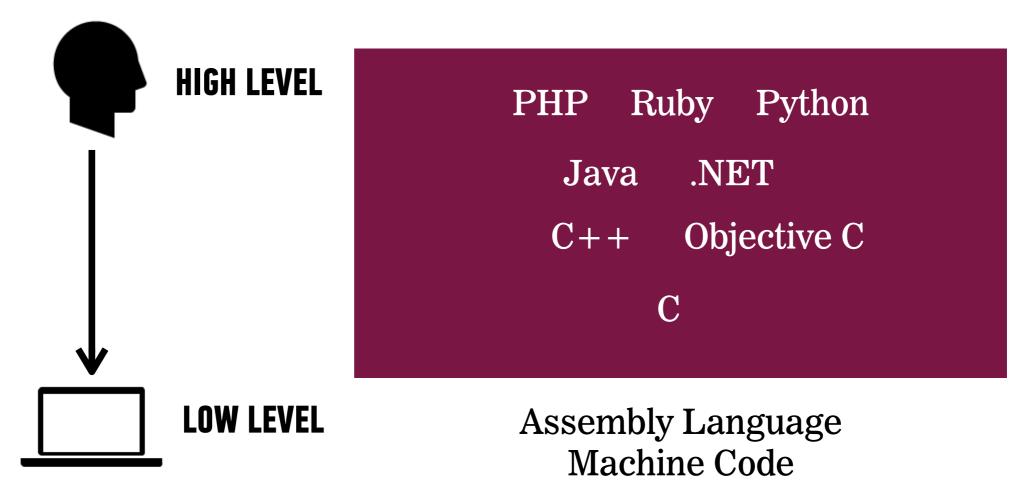
II. WHICH LANGUAGE? Understand the Tools







HIGH TO LOW LANGUAGES



HIGH TO LOW LANGUAGES

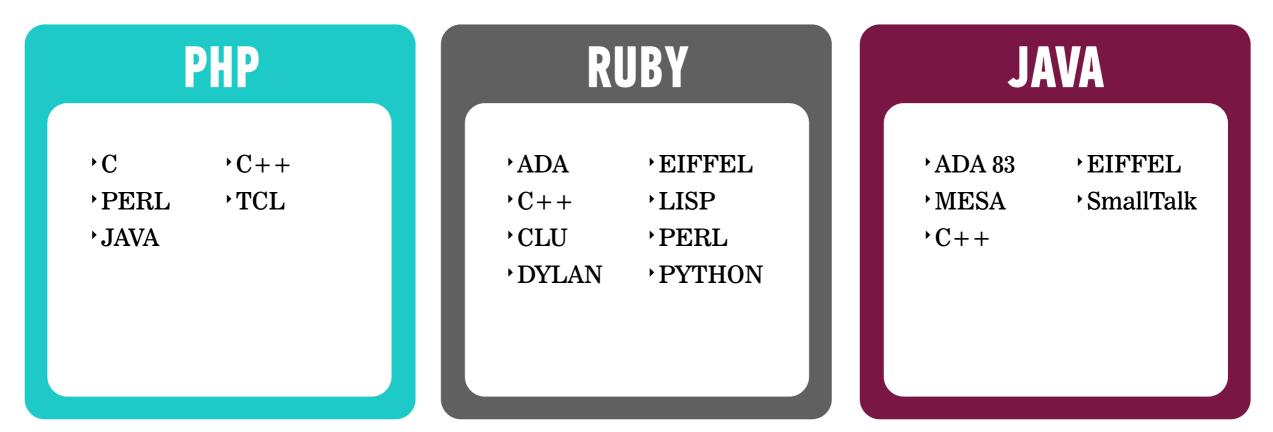
Machine Code

1000 CLC 1001 LDA \$80 1003 ADC \$4009 1006 STA \$80 1008 LDA \$81 100A ADC \$400A 100D STA \$81



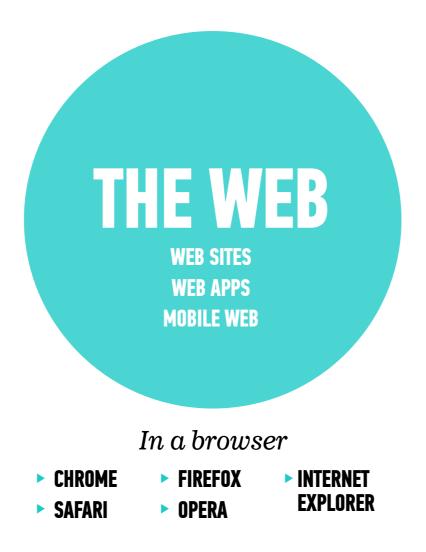
```
$("#submit-button").click(function(){
    $(".ball").animate({"left": "-=50px"}, "slow");
});
```

INFLUENCED BY?



THE MOTHER OF ALL LANGUAGES





WHAT TO LOOK FOR WHEN CHOOSING A LANGUAGE:

Difficulty level

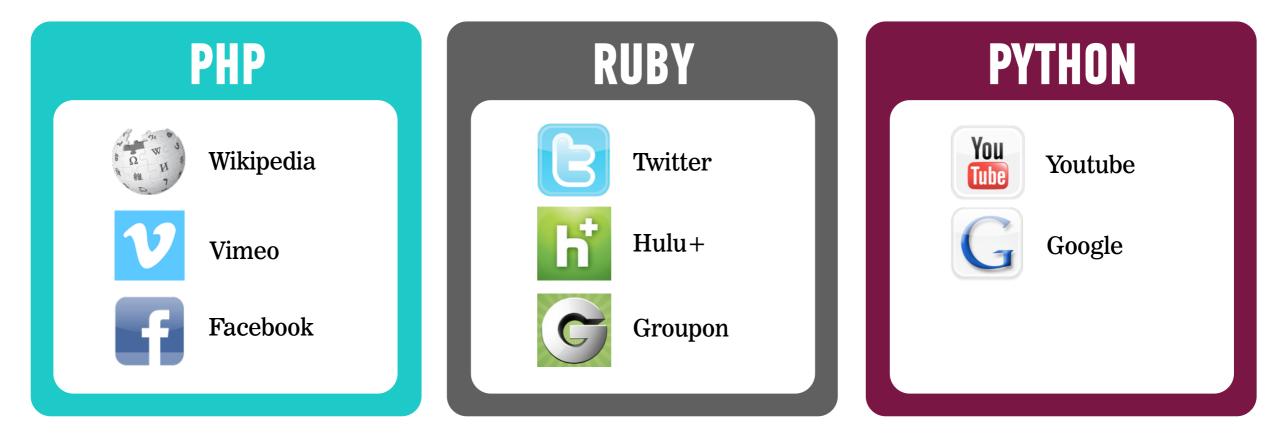
WHAT TO LOOK FOR WHEN CHOOSING A LANGUAGE:

- Difficulty level
- Community

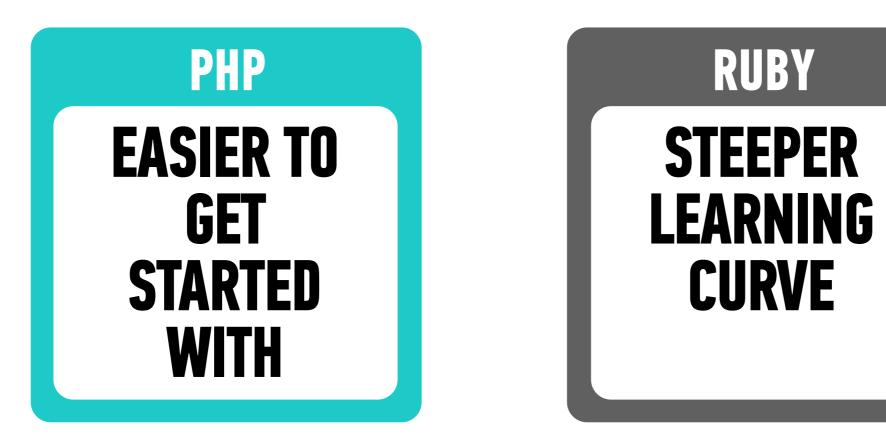
WHAT TO LOOK FOR WHEN CHOOSING A LANGUAGE:

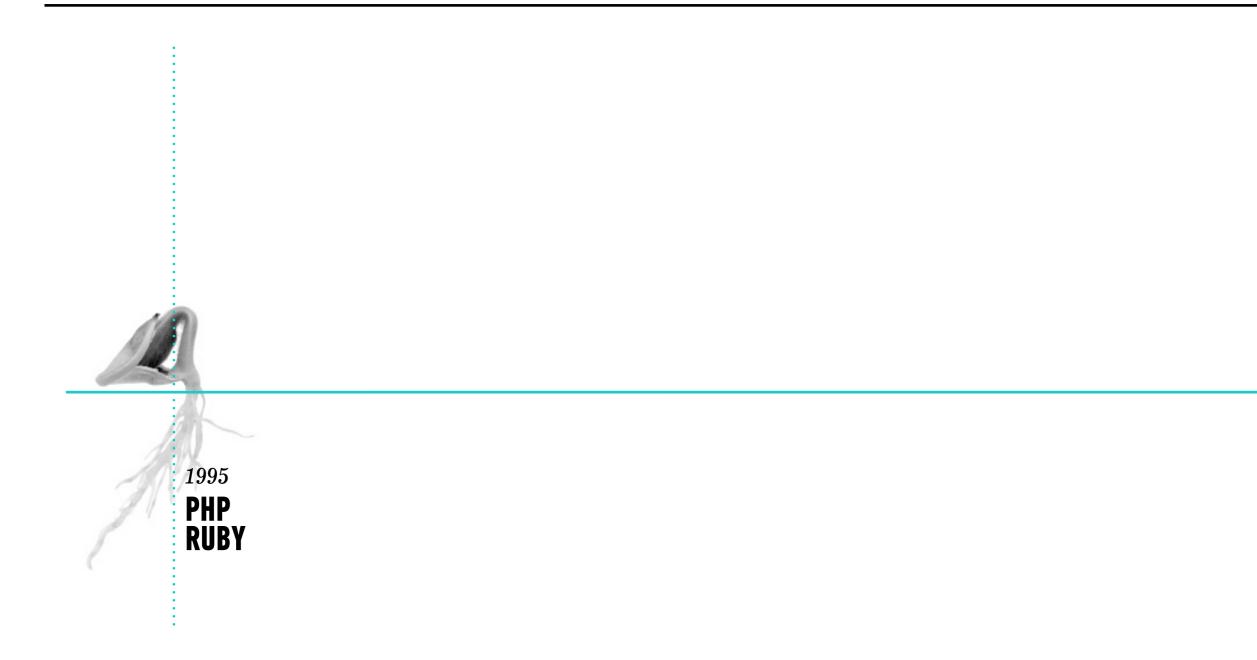
- Difficulty level
- Community
- Development time to build an app

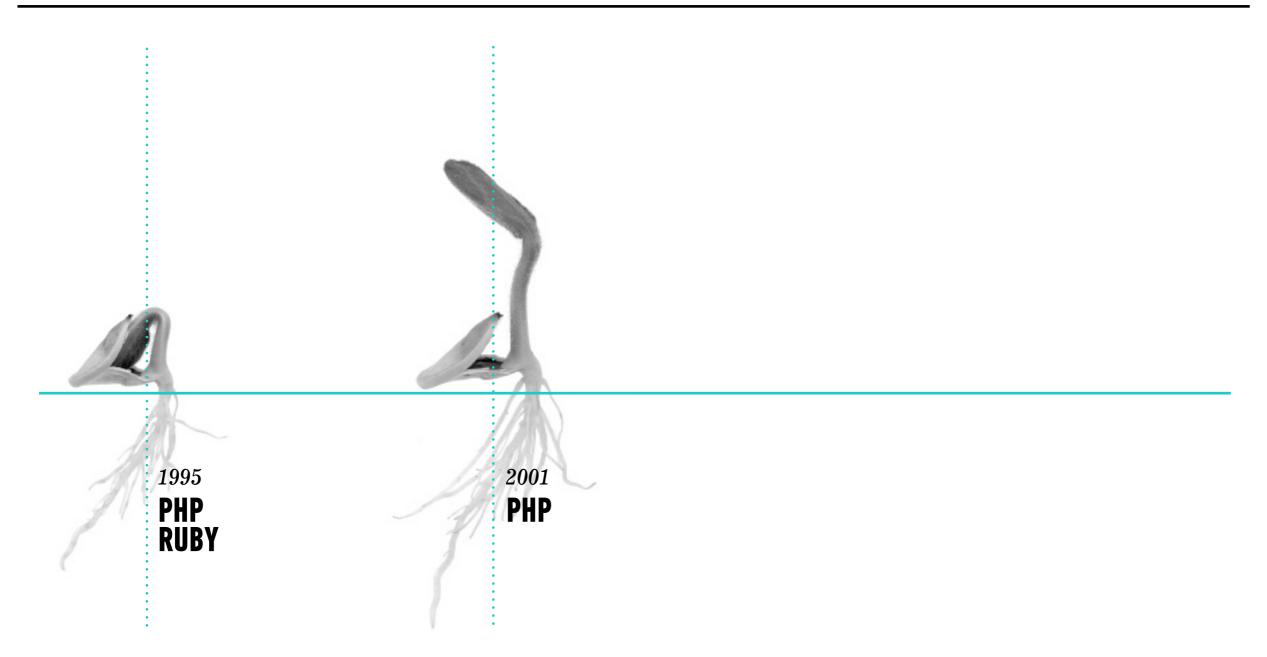
WEB PROGRAMMING LANGUAGES

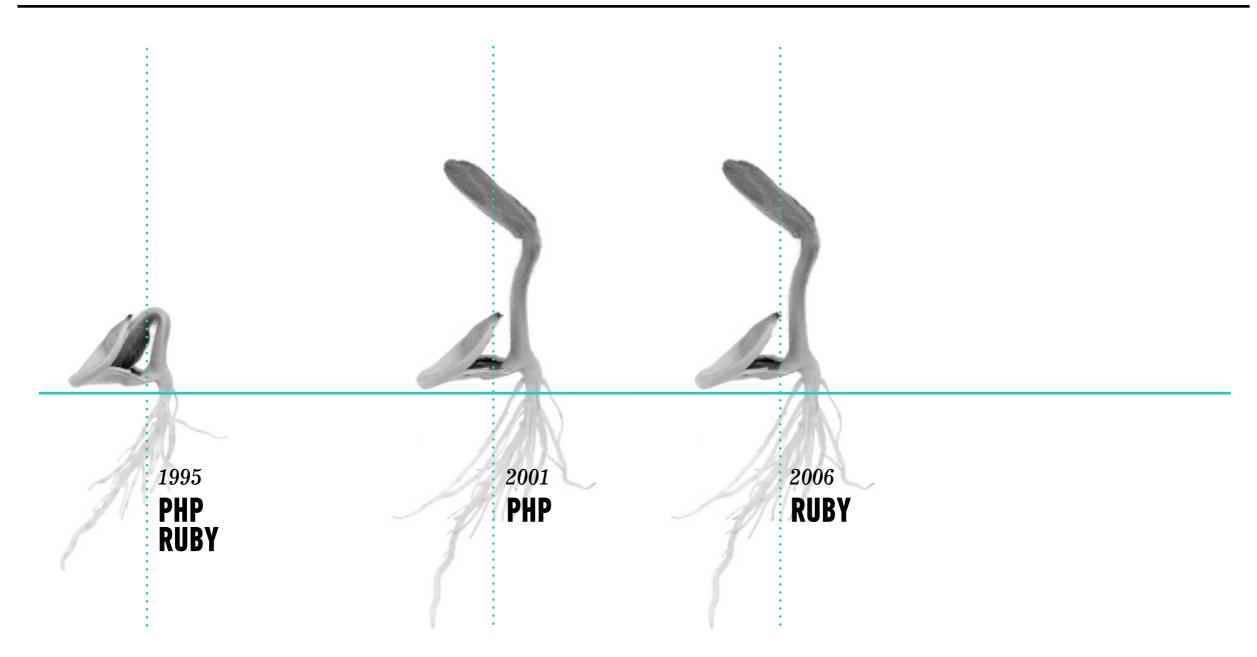


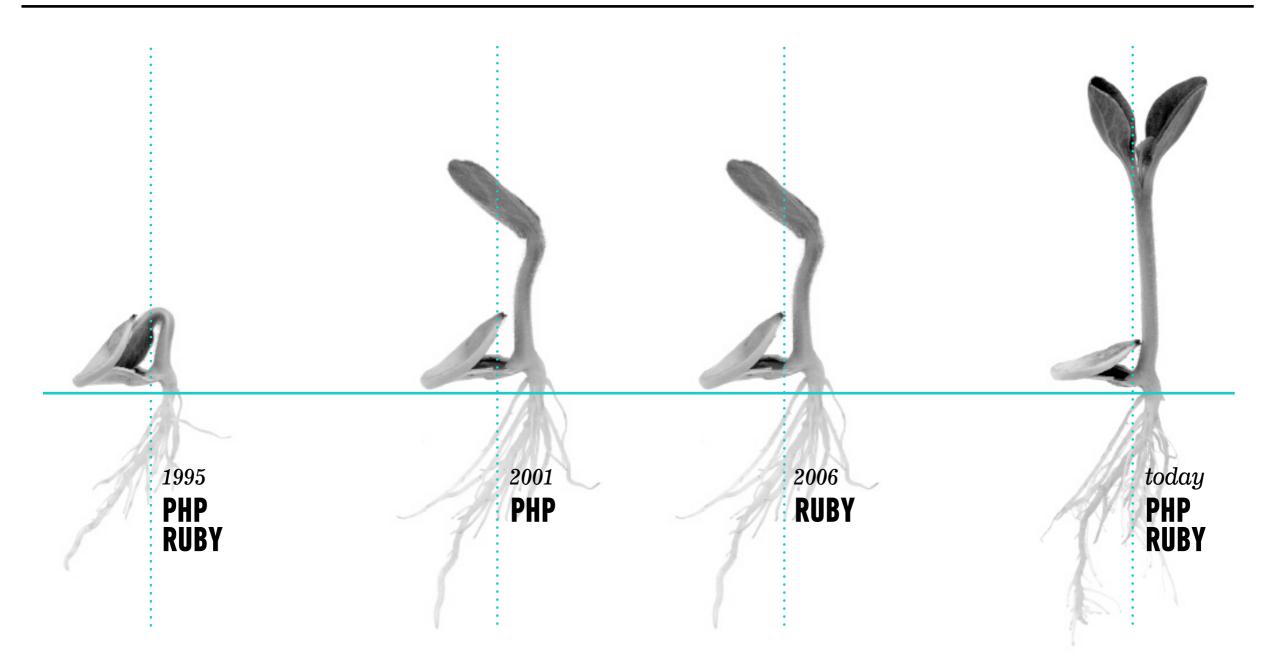
PHP vs. Ruby

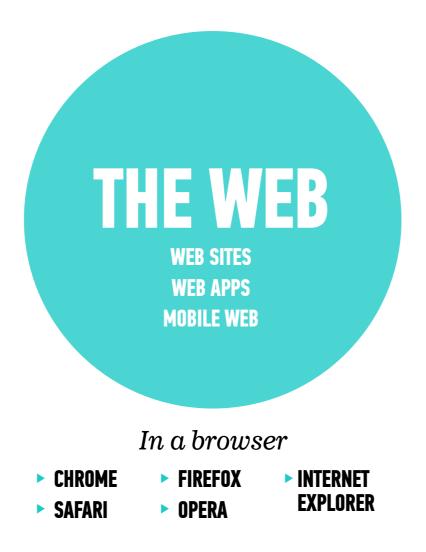


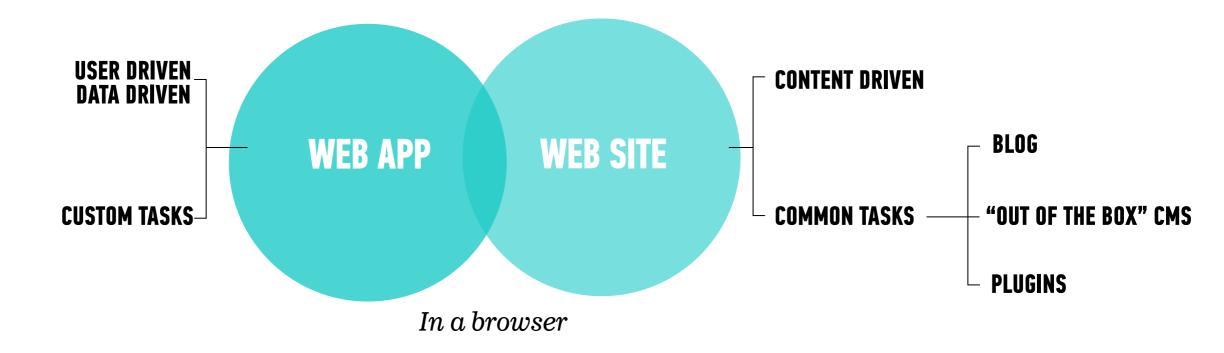


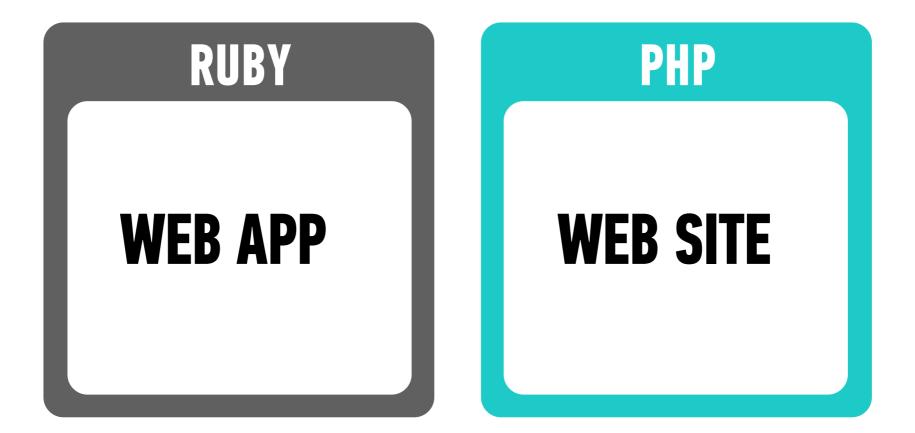












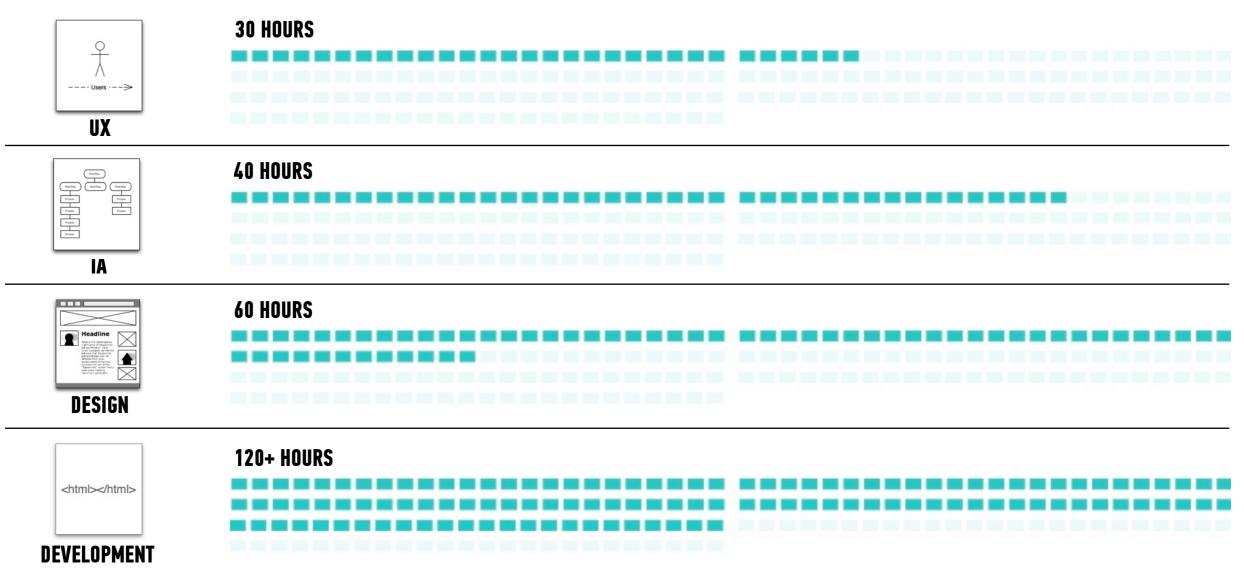
Pop Quiz: Review!

TIMELINE: The black eyed peas

- Main task: blog
- Agency project
- Large budget
- 6 page content site



Timeline: The Black Eyed Peas



TIMELINE: The story studio

- Main task: classes
- Consulting
- Low budget
- 4 page navigation site

HOME WORKSHOPS ABOUT CONTACT



EVERYONE HAS STORIES.

From the bar to the boardroom, a well-told tale makes the best impression. We provide expert storytelling training, feedback and a friendly environment to help you turn the most meaningful events of your life into powerful selfexpression.



WEB SITE

BE HEARD. LEAVE THE BEST IMPRESSION

Learn the art of storytelling and refine your public speaking skills. Connect, impress and get results. We offer personal, group and business workshops!

ATTEND A WORKSHOP

Timeline: The Story Studio

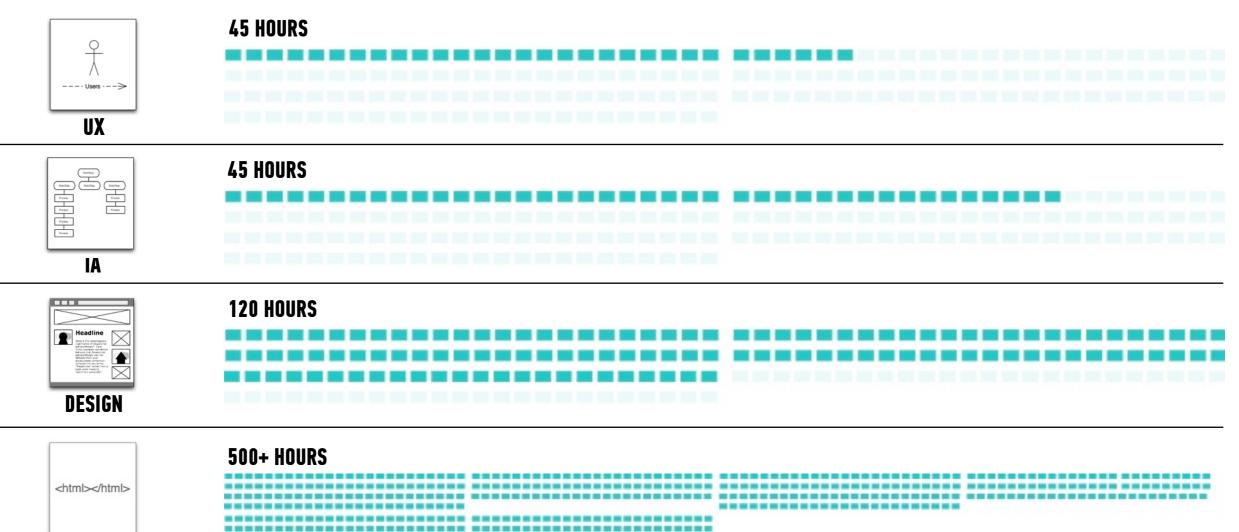


TIMELINE: Derby Jackpot

- Main task: an online horse gambling platform
- Start-up Consulting
- Decent-sized budget
- High risk: APIs



Timeline: Derby Jackpot





TIMELINE: Generalassemb.ly

Main tasks:

- classes
- about us
- \bullet video
- social network
- custom payment gateway



TIMELINE: Generalassemb.ly

Main tasks:

- classes
- about us
- video
- social network
- custom payment gateway



Which Language for...? Native Apps

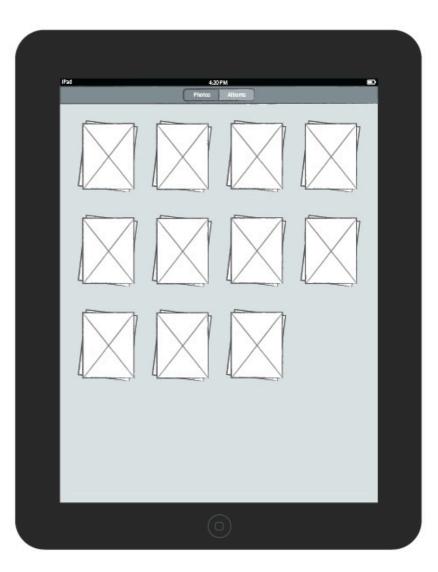


Directly on your Operating System

► IPHONE	► OSX
► ANDROID	► WINDOWS

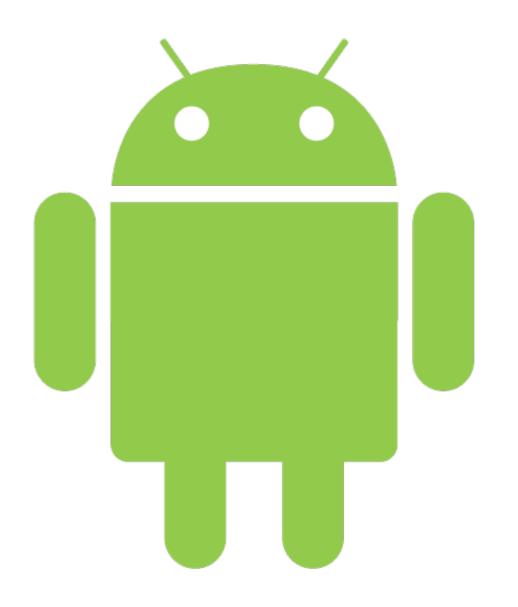
iPHONE, iPAD, MAC OS

• Objective-C

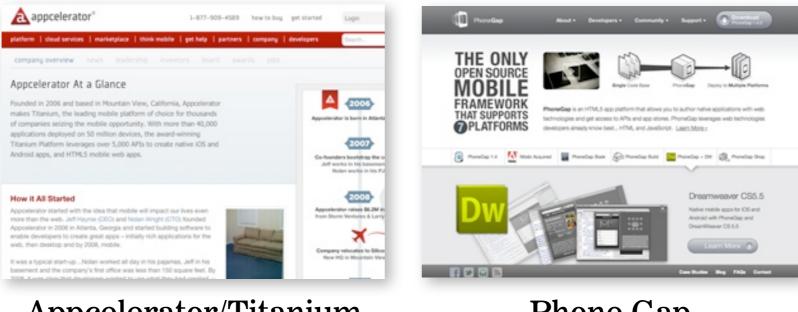


ANDROID

• java

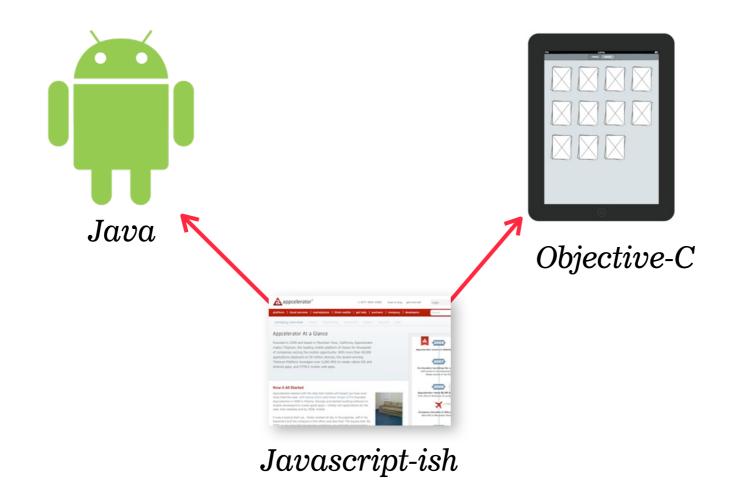


MOBILE DEVELOPMENT FRAMEWORKS: NATIVE

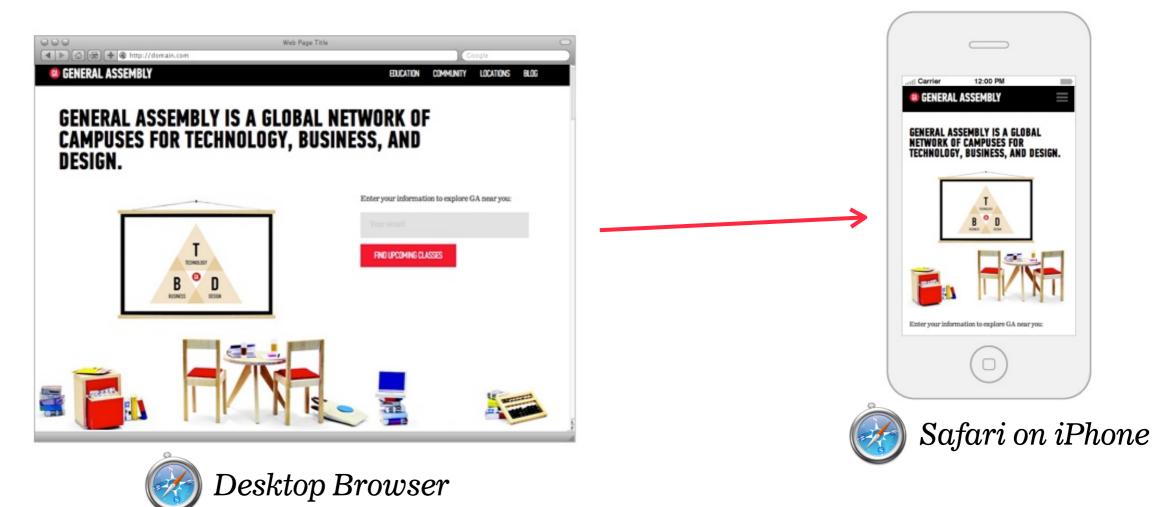


Appcelerator/Titanium "cross-compiler" Phone Gap "native wrapper"

CROSS COMPILE W/ APPCELERATOR



MOBILE WEB / RESPONSIVE DESIGN



MOBILE WEB: FRAMEWORKS





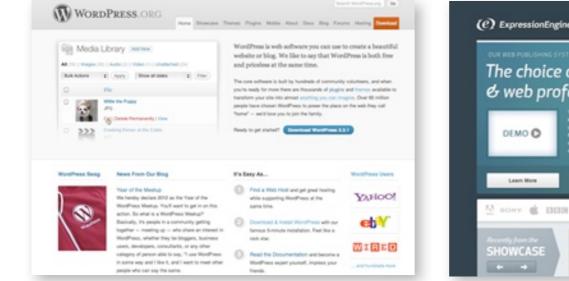
jQuery Mobile jQuery-ish

Content Management Systems (CMS)

CONTENT MANAGEMENT SYSTEMS (CMS)

- Wordpress
 Joomla!
 Drupal
 Blogger
 DotNetNuke
 Homestead
 Yahoo Site Builder
 VBulletin
 ExpressionEngine
 - Weebly

CONTENT MANAGEMENT SYSTEMS (CMS)





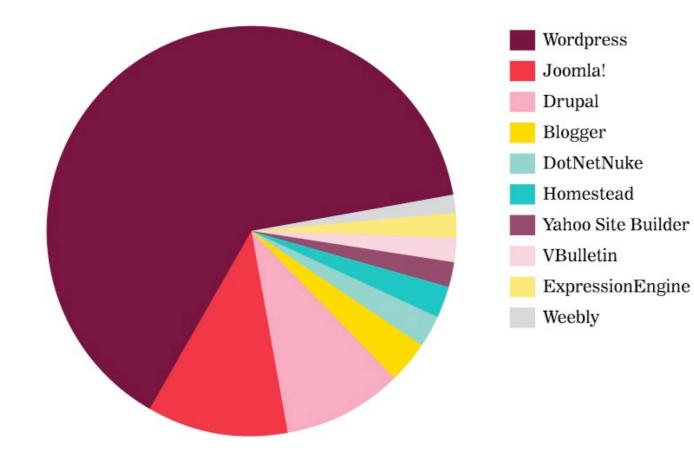


Wordpress

Expression Engine

Custom

CMS DISTRIBUTION IN TOP MILLION SITES



Which languages are left?

ANALYTICS, QUICK PROCESSES

• C++



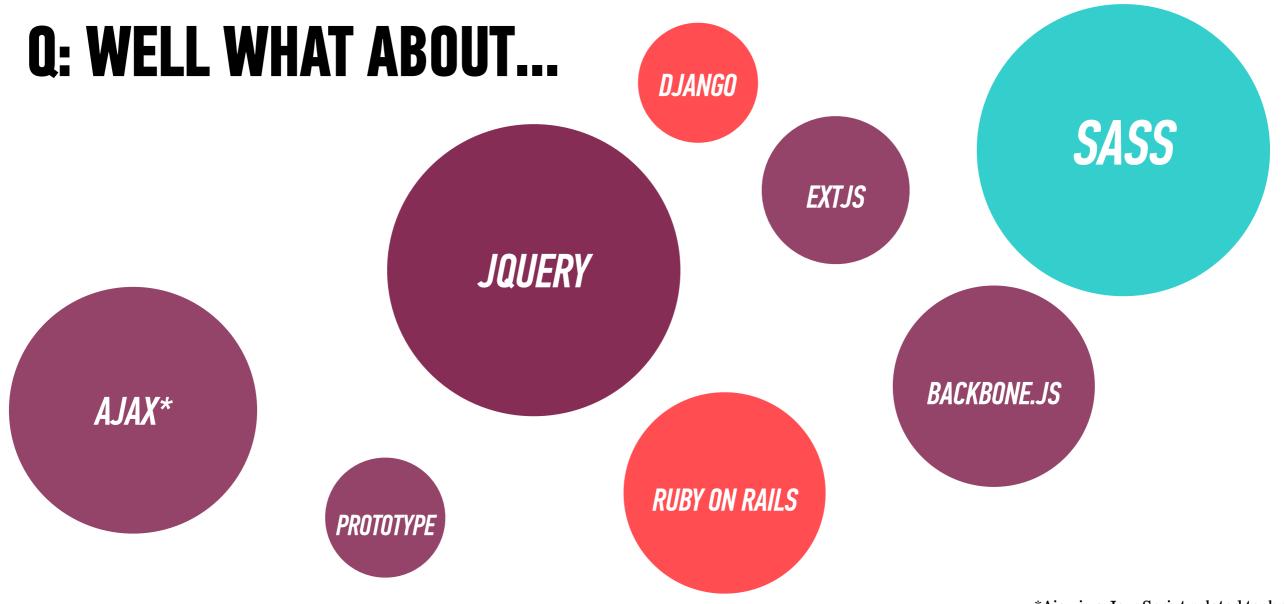
"REAL-TIME" IS MOST IMPORTANT

Node.js





And then you were all like...

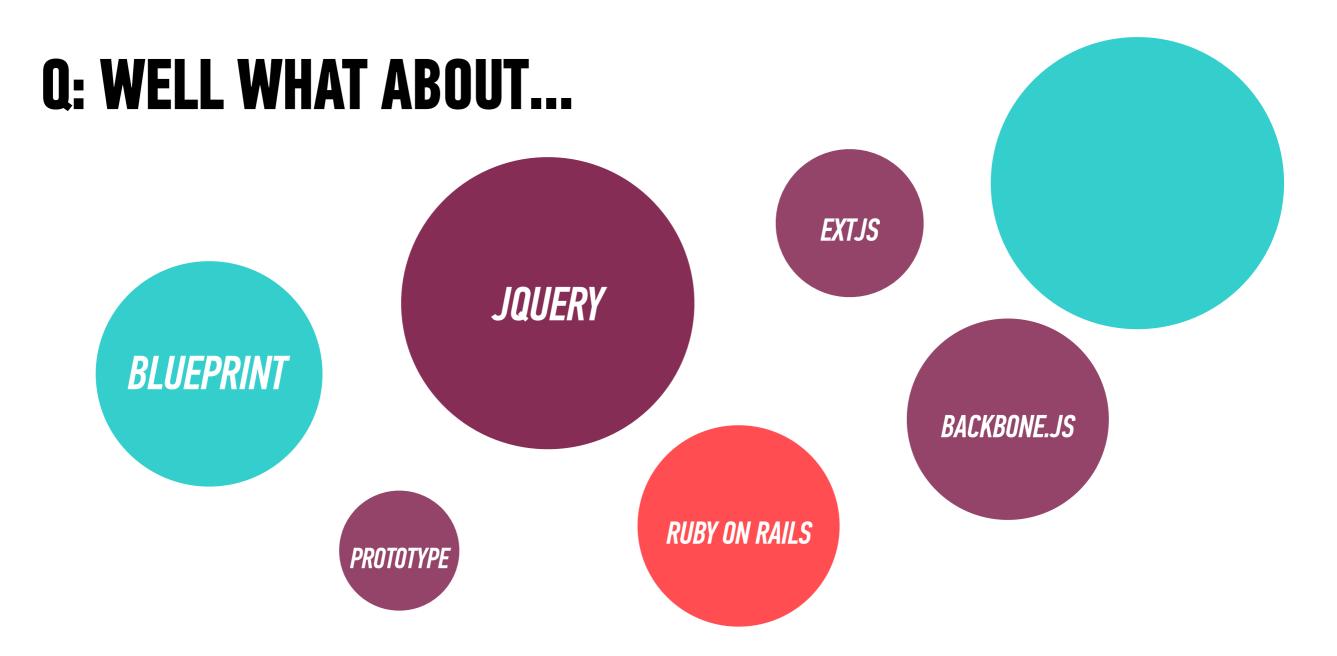


*Ajax is a JavaScript related technique

Frameworks

LET'S CODE SOME

and come back to frameworks





defines a block of code

- Functions - Methods Classes

*I'm giving you permission to use this in the general sense

*

FRAMEWORK: Login Example



The "perfect registration form"

FRAMEWORK: Login Example

1. Create an email field

2. Create a password field

3. Create a button that reads "Submit"

login() -

4. Check to see that the username isn't taken

5. Validate that the email is real

6. Add this user to the database

WALK() {

- 1. Advance right leg forward 0.5697 feet
- 2. Shift weight to right foot
- 3. Advance left leg forward 0.5697 feet
- 4. Shift weight to left foot

Frameworks

FRAMEWORKS

a collection of pre-baked code

...mostly "functions", and other great stuff



WHAT IS TWITTER BOOTSTRAP?



http://twitter.github.com/

WHAT IS TWITTER BOOTSTRAP?

A: Pre-baked...

CSS JS

1 10	
747	
748	h1 {
749	font-size: 38.5px;
750	}
751	
752	h2 {
753	font-size: 31.5px;
754	}
755	
756	h3 {
757	font-size: 24.5px;
758	}
759	
760	h4 {
761	font-size: 17.5px;
762	}
763	
764	h5 {
765	font-size: 14px;
766	}
767	
768	h6 {
769	font-size: 11.9nx:

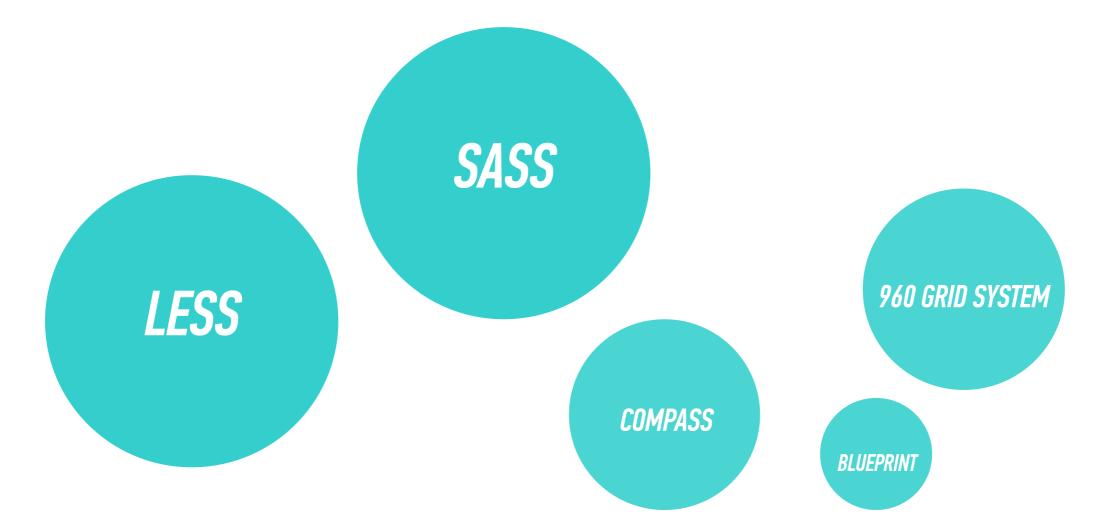
Frameworks

A: JAVASCRIPT FRAMEWORKS & HELPERS



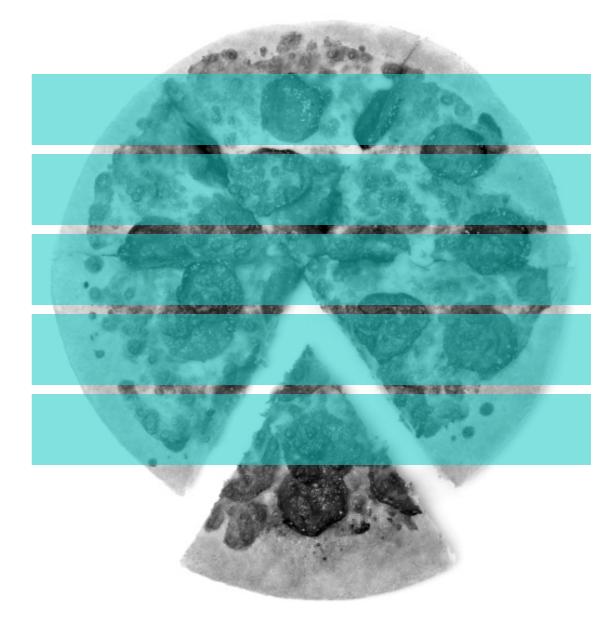
*Ajax is a JavaScript related technique

A: CSS FRAMEWORKS & HELPERS



Tech Stack

WHAT IS A TECH STACK?



WHAT IS A TECH STACK?

FRONT-END LANGUAGE	CSS HTML JS
SERVER-SIDE LANGUAGE	PHP
DATABASE	MYSQL
WEB SERVER	APACHE
OPERATING SYSTEM	LINUX

GENERAL ASSEMBLY

III CODE Use the Tools

-structure CSS - style JS - behavior

I (noun) CSS (adjective) JS (verb)

HEY CHRIS, CAN YOU...

make the logo bigger?

HEY CHRIS, CAN YOU...

HTML make the logo bigger?



HEY CHRIS, CAN YOU...

make that grey heading fadein?

HEY CHRIS, CAN YOU...

HTML make that grey heading fadein?

7 CONCEPTS

...that are the same in every programming language

2 COMMENTS

BRNT

LWARABLES

POP QUIZ!

a = 1 $\mathbf{b} = 2$ $\mathbf{c} = \mathbf{a} + \mathbf{b}$ c = ?

POP QUIZ!

a = 1 $\mathbf{b} = 2$ $\mathbf{c} = \mathbf{a} + \mathbf{b}$ c = 3

5. DATATYPES

6. CONDITIONALS

7. FUNCTIONS

PROGRAMMING CONCEPTS

- 1. Events
- 2. Comments
- 3. Print
- 4. Variables
- 5. Datatypes

- 6. Conditionals
- 7. Functions

JAVASCRIPT document.write("Good morning");

JAVASCRIPT document.write("Good morning");

PHP echo "Good morning";

JAVASCRIPT document.write("Good morning");

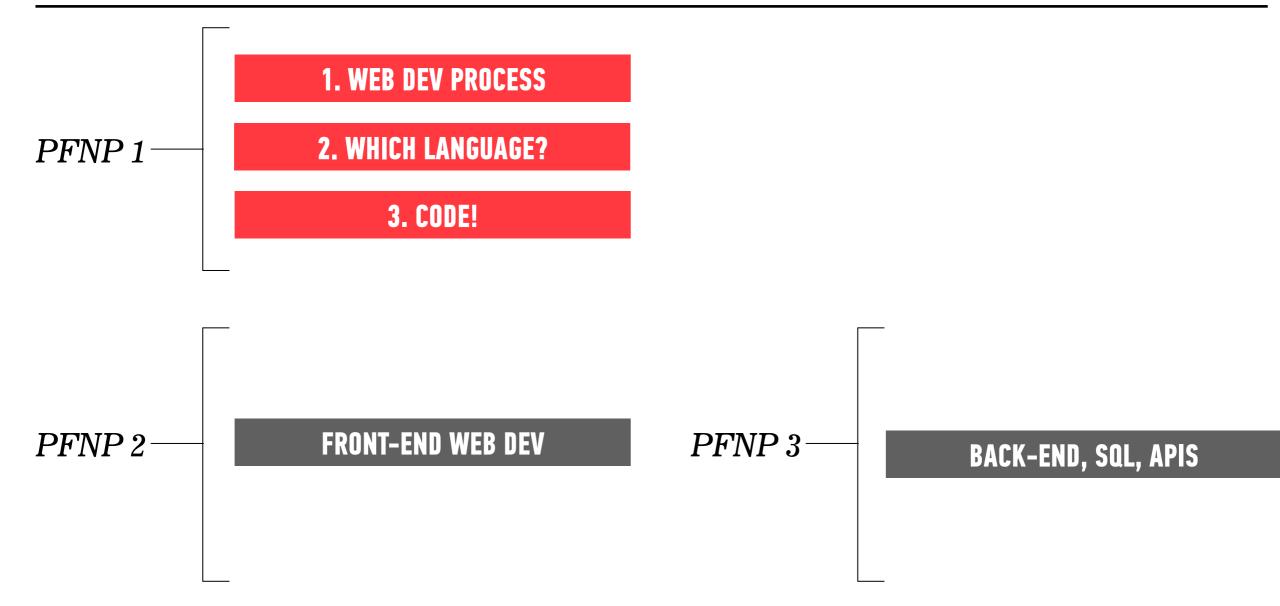
PHP echo "Good morning";

RUBY print "Good morning"

JAVASCRIPT document.write("Good morning");

PHP echo "Good morning";

RUBY print "Good morning" **PERL** say "Good morning"



GENERAL ASSEMBLY

FRONT-END HTML, CSS, JS

WHAT SHIML5?

GENERAL ASSEMBLY

BACK-END PHP&SQL

WHAT IS A TECH STACK?

FRONT-END LANGUAGE		CSS	HTML	JS	
SERVER-SIDE LANGUAGE		JAVA	PYTHON	RUBY	PHP
DATABASE	ORACLE	MONGO DB	MYSQL	POSTGRES SQL	
WEB SERVER		APACHE	NGINX		
OPERATING SYSTEM		OSX	LINUX	MICROSOFT IIS	

File Under:

"not a programming language"

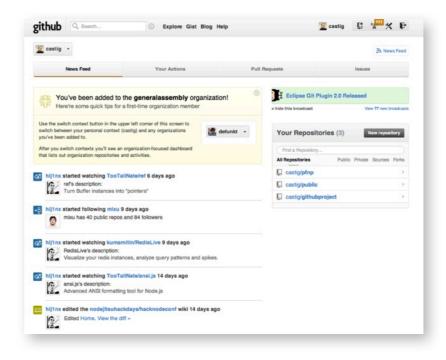
OPEN SOURCE

FTP

View Window		Quick Look	Action Sync		Search
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Name *	Size	Date	Name A	Size	Date
_notes		2/13/12 4:54 PM	E 2011_05_20_FEWD.zip	58.2 MB	5/20/12 3:06
404.php	4 KB	1/7/12 6:35 PM	1 2011_06_18_FEWD.zip	59.1 MB	6/18/12 4:00
archive.php	4 KB	1/7/12 6:35 PM	curriculum-revisions		5/20/12 3:03
attachment.php	4 KB	1/7/12 6:35 PM	e_server_wizard		3/18/12 7:20
author.php	4 KB	1/7/12 6:35 PM	example-curriculum-testyofiles		4/11/12 9:04
category.php	4 KB	1/7/12 6:35 PM	1 index.php	397 B	2/12/12 7:06
comments.php	4 KB	1/7/12 6:35 PM	E license.txt	17 KB	2/12/12 7:06
CSS		2/13/12 4:53 PM	e readme.html	9 KB	4/26/12 1:24
footer.php	4 KB	1/7/12 6:35 PM	▶ 🚞 support		3/6/12 9:52 4
functions.php	16 KB	1/7/12 6:35 PM	mordpress mordpress	OB	2/12/12 7:06
header.php	4 KB	1/7/12 6:35 PM	swp-activate.php	4 KB	2/12/12 7:06
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js		2/13/12 4:53 PM	wp-app.php	40 KB	2/12/12 7:06
less		2/13/12 4:54 PM	m wp-blog-header.php	274 B	2/12/12 7:06
LICENSE.txt	16 KB	1/7/12 6:35 PM	m wp-comments-post.php	4 KB	4/26/12 1:24
loop.php	8 KB	1/7/12 6:35 PM	* mp-config-sample.php	3 KB	2/12/12 7:06
page.php	4 KB	1/7/12 6:35 PM	to wp-config.php	3 K.B	2/12/12 7:14
README.md	4 KB	1/7/12 6:35 PM	▶ 🚞 wp-content		5/30/12 12:4
screenshot.png	4 KB	1/7/12 6:35 PM	To wp-cron.php	3 KB	2/12/12 7:06
search.php	4 KB	1/7/12 6:35 PM	▶ includes		2/12/12 4:46
searchform.php	4 KB	1/7/12 6:35 PM	wp-links-opml.php	2 KB	2/12/12 7:06
sidebar.php	4 KB	1/7/12 6:35 PM	1 wp-load.php	3 KB	2/12/12 7:06
single.php	4 KB	1/7/12 6:35 PM	m wp-login.php	28 KB	2/12/12 7:06
style.css	4 KB	2/10/12 9:32 PM	wp-mail.php	8 KB	2/12/12 7:06
tag.php	4 KB	1/7/12 6:35 PM	wp-pass.php	413 B	2/12/12 7:06
theme-options.php	8 KB	1/7/12 6:35 PM	wp-register.php	334 B	2/12/12 7:06
			wp-settings.php	10 KB	2/12/12 7:06
			📷 wp-signup.php	19 KB	2/12/12 7:06
			trackback.php	4 KB	2/12/12 7:07
			mirpc.php	3 KB	2/12/12 7:07

GIT

) bash		0		10	9						
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516 screencapt								24126			
		8:88.8			29		1806	15726	108		
499 bash		0:00.0			19		794K	909K	1.0.5		
498 login	0.0%	0:00.0		17		344K	260K	1116K	1988		
400 bash	0.0%	0:00.0	9 1		19	248K	794K	692K	1.055		
407 login	0.0%	0:00.0					268K	1116K	1988		
456 Terminal	0.0%	0:04.0		168		4389K	2.6%	1.5M	2628		
442 advorker	0.0%	0:00.2				1256K	4856K	3828K	31.8		
448 advorker		0:00.2			36		4392K	2328K	31.8		
428 usbauxd		0:00.0			26		184K	696K	198		
426 ITunesHelp	0.0%						5832K	2568K	1648		
364 Securi tykę	0.0%					2392K	11.8	6632K	2468		
363 authorizat		0:00.0			36		2556K	1564K	298		
866 Motion		8:89.8				218	32%	628	447%		
735 thnuclnt	0.0%					24K	292K	136K	198		
733 thnuclnt	0.0%				24		292K	108K	198		
732 thruclint	0.0%						292K	236K	198		
730 thruclnt		0100.7			24		292K	416K	198		
708 vmnet-brid		0100.0			24		184K	156K	268		
706 vmnet-chcp		0100.0			25		248K	184K	228		
703 vmnet-neti		8188.8			24		184K	56K	268		
788 vanet-neti		0100.0			24		184K	56K	268		
698 wwnet-chcp	0.0%				26		244K	208K	225		
692 vmnet-natd 527 AppleSpell	0.0%				29	68K	184K	312K	238		
	0.016	0100.0		22 61	31 59		6156K 252K	588K 956K	348		



GIT

Revisions

		 						15:14:27
nocesses: 76 to oad Avg: 0.06,								13:14:27
haredLibs: num ·								
esRegions: nus								
hypfies: 305H vi								
H: 5591H + 377H								
PID CONNAND	TIME	SPRTS S	NREGS					
5516 screencapt	0:00.02	38+	103		3980KH			
5589 top	0:00.00					1572K	108	
5499 bash	0:00.00			256K	784K		2.08	
5498 login	0:00.01			344K	268K	1116K	1.98	
5408 bash	0:00.00			248K	784K	892K	1.0.8	
5407 login	0:00.01	17		344K	268K	1116K	198	
5456 Terminal	0:04.04			4389K	168	158	2628	
5442 advorker	8:88.25	67		1256K	4856K		318	
5448 advorker	0:00.22	51		656K		2328K	31#	
5428 usbeuxd	0:00.00	21		204K	184K	696K	19#	
5426 iTunesHelp	0:00.07		49		5832K		1648	
5364 Securi tyke	0:00.61			2392K	118		2488	
5363 authorizat	0:00.02	31		588K	2556K		298	
4866 Motion	0109.00		791		328	62M	4478	
4735 thruclat	0100.00		25		292K	136K	198	
4733 thnuclnt 4732 thnuclnt	0100.00		24		292K	198K 236K	198	
4732 thrucint 4738 thrucint	0100.19	10 14	- 24		292K 292K	416K	19M 19M	
4788 thingcont 4788 vmnet-brid	0100.74	15	24		184K	156K	208	
4786 venet-chcp	0100.00	19	25		246K	184K	228	
4705 venet-oncp 4703 venet-neti	0100.03		- 24		1846	104K	268	
4788 venet-neti	0100,00		- 24		184K	56K	208	
4698 venet-chcp	0100,03		26		2446	208K	228	
4692 vanet-natd	8:00.12		29		1846	312K	238	
4527 AppleSpell	0100.03	22	31		6156K	588K	348	
1818 AppleSperr	8:84.81	61	69		2.50K	956K	248	

GIT

Revisions

Collaboration

) bash		0	_	10	-					
		running,								15:14:27
ad Avg: 0.06,										
aredLibs: num =		resident								
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5 3337W - 311W		(10) pag	C-BLID	. 1443	re(e) i	pageout				
PID COMMAND	SCPU	TIME	#TH	#PRTS :	INREGS	RPRICT	RSHRD	RSIZE	VSIZE	
516 screencapt	9.9%	0:00.02		38*	193	612K*	3990KP	2412K*	171#+	
589 top		0:00.00				909K	180K	1572K	105	
499 bash	0.0%	0:00.00		14		256K	794K	908K	105	
498 login	0.0%			17			260K	1116K	198	
488 bash	0.0%			14	19		794K	892K	108	
487 login		0:00.01					268K	1116K	198	
456 Terminal		8:84.84		168		4389K	1.6%	1.5M	262#	
442 advorker		8:88,25				1256K		3928K	31#	
448 advorker		0:00.22			36		4392K	2328K	31#	
428 usbeuxd		0:00.00			26		184K	696K	198	
426 ITunesHelp	8.8%	8:88.87				492K	5832K	2568K	1648	
364 SecurityAg	0.0%			112		2392K	118	6632K	2408	
363 authorizat	8.8%				36		2556K	1564K	298	
866 Motion		8:89.88	2	314		218	328	628	4478	
735 thnuclnt	8.8%					24K	292K	136K	198	
733 thnuclnt		0100.00			24		292K	108K	19#	
732 thnuclnt	0.0%			19	25		292K	236K	198	
730 thnuclnt	0.0%			14	24	12K	292K	416K	198	
788 vmnet-brid	8.8%	0100.00		15	24		184K	156K	268	
786 vwnet-dhcp	8.8%			19			248K	184K	228	
703 vanet-neti		0100.00			24		184K	56K	288	
700 vmnet-neti		0100.00			24		184K	56K	288	
698 vwnet-dhcp		0100.03		10	26		244K	208K	22#	
692 vmnet-natd 527 AppleSpell		0100.12			29	68K	184K	312K	238	
		0100.03			31	4896	6156K	588K	348	

DATABASES (YOU CHOOSE ONE)

- MySQL ("My Sequel")
- PostgreSQL
- ORACLE

• Mongo DB

• Reddis



SELECT post_title FROM wp_users WHERE post_title = "Joy"

