

Web 3

Week 2. September 5th, 2012.

Today's Agenda!

- WTF/LOL: What exactly did we learn last week?
- OMG: Get your MAMP on. And then some real, actual fun.

WTF

Never forget.

A server is nothing magical. It's just a computer.

Languages on the server

- Common options: PHP, Ruby, Python, Java.
- New to the scene: JavaScript (NodeJS)
- How to evaluate one vs. the other?
 - Speed: (depends more on you than the flavor you choose)
 - Ease: (depends more on you than the flavor you choose)

Waitwaitwait...

JavaScript on the server?

But I thought JS was for clicky fadey moving stuff animated doodley

```
1 jQuery(document).ready(function() {  
2     $("a").click(function() {  
3         $(this).fadeIn("fast",function() {  
4             $(this).fadeOut("fast",function() {  
5                 $(this).fadeIn("fast",function() {  
6                     $(this).fadeOut("fast",function() {  
7                         // I'm dizzy.  
8                     }  
9                 })  
10            })  
11        })  
12    })  
13 })
```

That's true... on the client side.

**There is no point
in doing this on the server.**

Any guesses why?

Server = PRE-processor

PRE as in before. That means the **OUTPUT** of the code on the server is typically text.

```
1 var http = require('http');
2 var port = 1337;
3
4 // start a server on port 1337.
5 http.createServer(function (req, res) {
6   res.writeHead(200, {'Content-Type': 'text/plain'});
7   res.end('Hello World\n');
8 }).listen(port, '127.0.0.1');
9
10 console.log('Server running at http://127.0.0.1:1337/');
```

JS on the server

**Same language,
different objective.**

In other words

Everything you write on the server happens before the user sees anything on the site.

And I do mean **everything**.

Even Ajax. Your web browser loads your site up front.
JS then makes subsequent requests to the server and handles the



Zen of the Web

In order to build connected things you must understand this Golden Cycle™.

From this moment on

You will be learning multiple things at once.

On the server side: PHP (or your choice as best as I can help)

On the client side: HTML, CSS and JS (or your choice as best as I can help)

Where does design fit in?

Code is irrelevant without design. Code is an extension of design.
I expect you will apply your design chops to everything here.

OMG

Today's Impossible Thing

1. Get MAMP (or WAMP) up and running.
2. Funzo time! Yayyyyyyy!



MAMP

MAMP vocab!

- **M** = Mac. Your computer, dummy.
- **A** = Apache. Remember that from last week?
- **M** = MySQL. Database software.
- **P** = PHP. A server side language.

Step 1

Download MAMP.

Step 2

Install MAMP by dragging it to your Applications folder.

Step 3

Open MAMP.

Step 4

Click Start Servers.

**Bet you didn't think it'd be
that easy.**

Some more shit I do!


- Set Apache to run on Port 80. As we know, this is the default HTTP port.
- Set your Document Root directory (aka the base dir of your web server).
- Uncheck that blasted “Open start page at startup” box. So annoying!

Now that that's over with

Let's do something real and fun.

Define.

Can anyone here tell me what an array is?

**Jamie Kosoy**

FAVORITES

News Feed

Messages 3

Other 32

Events 4

ADS

Ads Manager

Create an Ad...

PAGES

Big Spaceship 1

Chobani 2

Big Spaceship Test

APPS

App Center 1

Photos

Skittles

Starburst

GROUPS

Big Spaceship

Burger Time

Create Group...


MORE

Friends on Chat

Messages


+ New Message

Search Messages

**Lance Broumand**


7 hours ago

← Would love to. You free Wednesday night for a drink bychance?

**Kate Collinson**


7 hours ago

← Awwwww. It's really weird for me, too. Jamie

**Luciano**


August 31

← Take care! I'll see you we'll meet too have a great weekend!

**Brandy Martin Frederick**


August 29

← I still need bourbon too. Let's be honest.

**Erin Bender**


August 28

Nice 😊 we treat our favorite peeps right here in the Lone Star State 😊

**Hilary Fenton**


August 24

🔗 more Otis... <http://open.spotify.com/track/00Y4ztej0wqS7AF2pHHtCu>

**Theresa Misenti**


August 8

It was just wonderful. Brandy and I kept talking about how at each place we w...

**Rachel Goldberg**

June 5

Hey Jamie!! Hope everything is going well with you and Hilary! I think Shaun s...

**Cathy Davenport Lee**

April 17

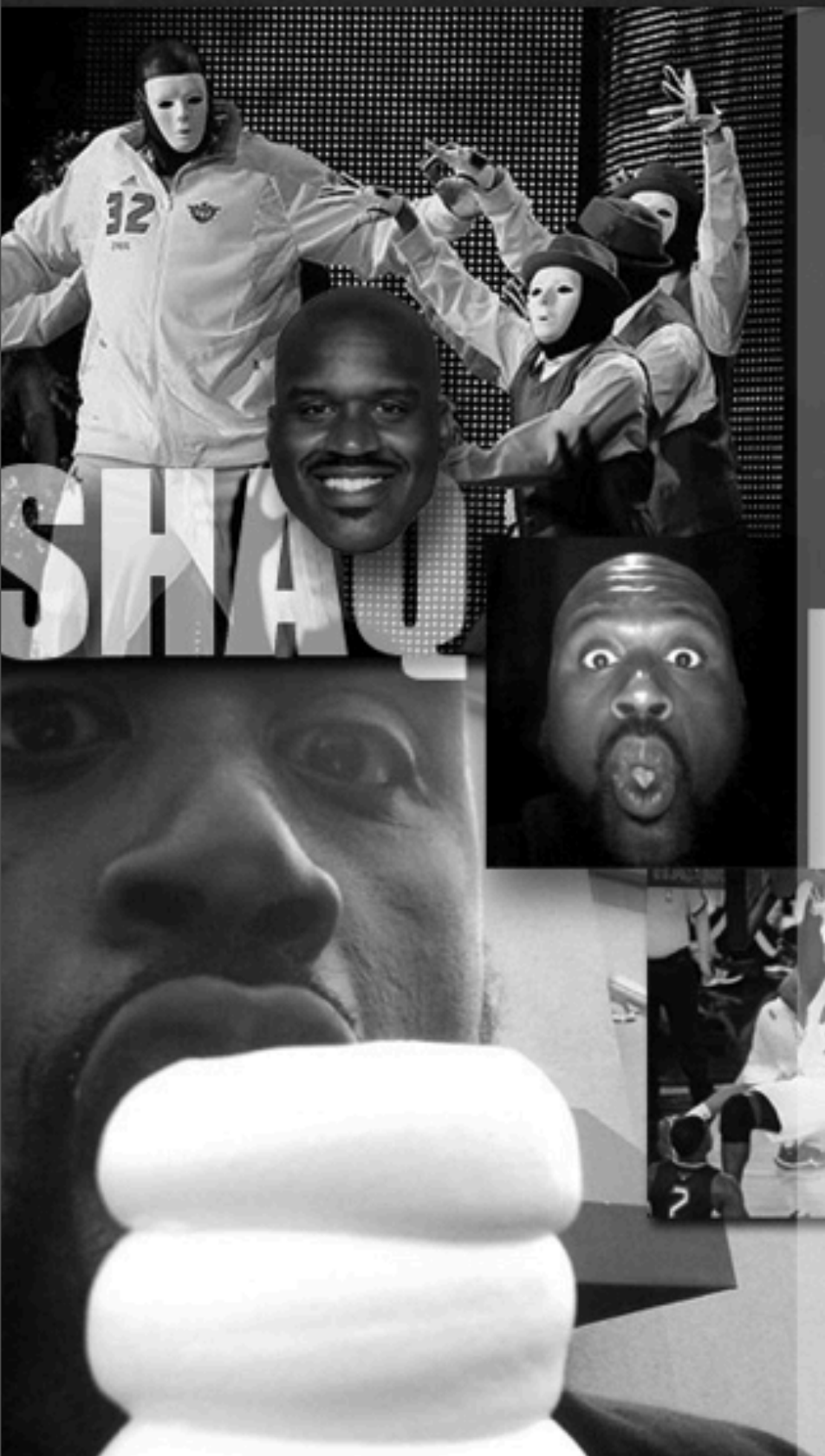
LUX
sweet!



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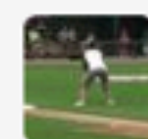
1,244
RETWEETS

355
FAVORITES



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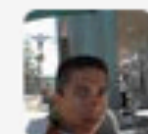


TINKY MACBERGers @JksTinkylicious

21h

@SHAQ Good Point Shaq! Thanks

[Details](#)



Rafael Centenera @hiphoper33

21h

@SHAQ \\(^_^) //

[Details](#)



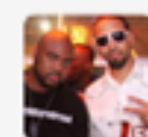
Cage Candy @CageCandy

21h

@SHAQ Thank you for that Amazing Tweet you just sent out to the world! It just touched my heart greatly sir.

[#Amentothat](#)

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Beans N Kornbread @BeansnKornbread

21h

@SHAQ whatup mayne

[Details](#)



Randy Harvey @randyharvey

20h

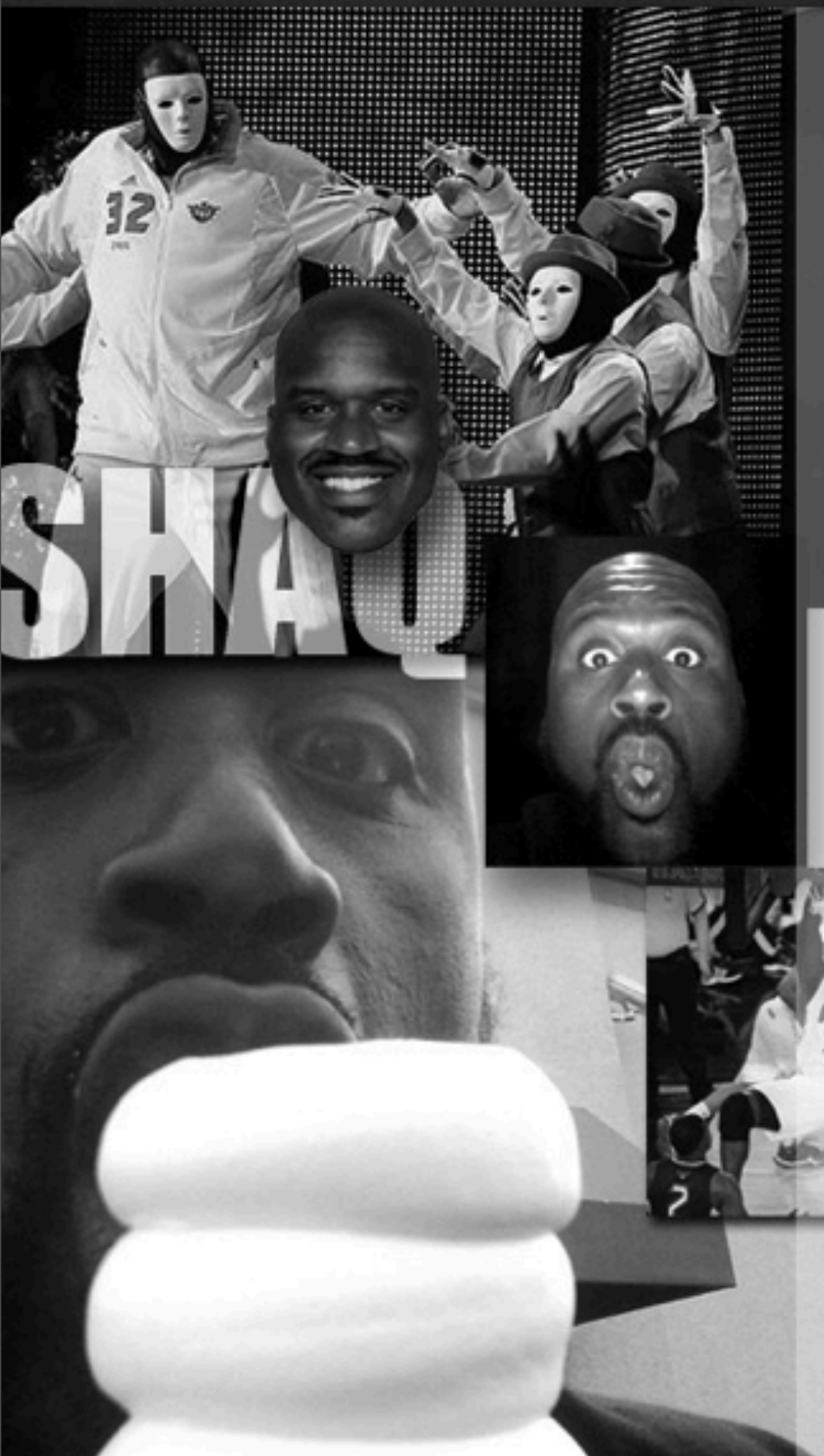




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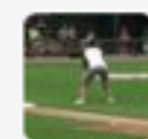
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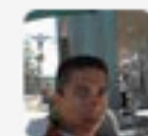


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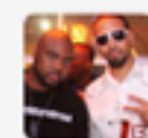
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20h



CONVENTIONS 2012

- Dems back platform differing from GOP
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- CNN poll: Romney gains one point
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- LZ: Middle class lag not Obama's fault

THIS JUST IN

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- Segregated reunion plan causes stir 📺
- Obama's love of U.S. questioned 📺
- Soldier has double surprise for kids 📺
- Teacher accused of bullying boy 📺
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- Kelly Ripa reveals new 'Live!' co-host
- Dress like those 'Revenge' stars
- How deadly is a supervolcano? 📺
- Picking NFL winners and losers SI
- Summer movie awards | Fall films EW
- Ick! Giant earthworm found in China 📺
- This Just In: CNN's news blog



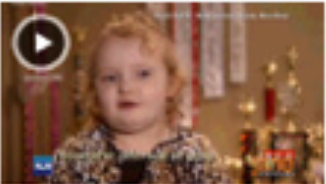
Duncan, reality star had plans to wed



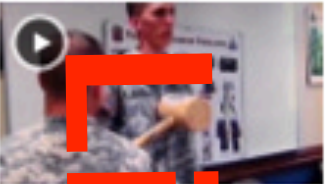
Opinion: Why doesn't Obama schmooze?



What does 'organic' actually mean?



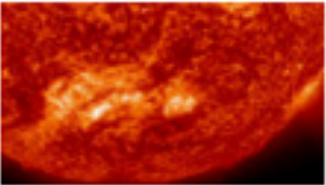
Honey Boo Boo: The new queen of TV? 3:41



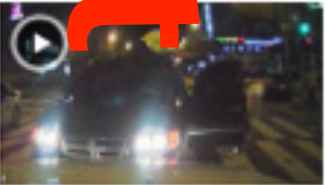
Soldier hit in chest, collapses in video 1:58



Watch: Security guard outdraws thieves 1:31



Half-million-mile 'solar whip' in space



Cop leaps atop car, becomes viral hero 1:23



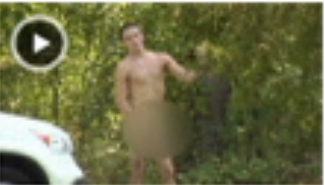
12 fascinating Civil War sites



When exercise equipment lies 3:09



Steve Harvey a media king?



Naked man interrupts interview 1:27



First day of school photos



Why runners need yoga



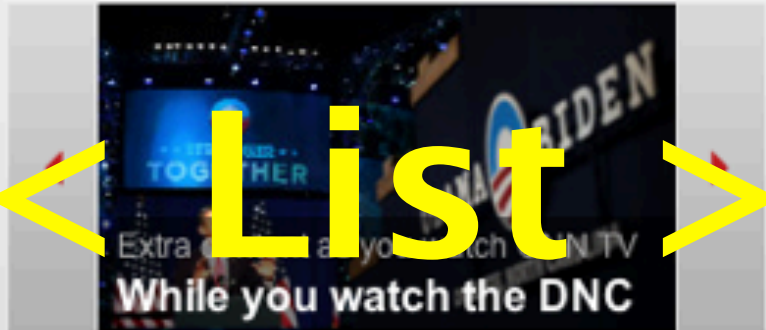
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Democratic National Convention Going beyond the headlines, with various views on the news.

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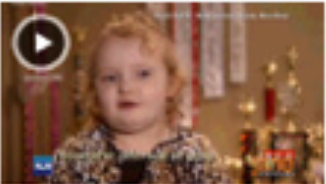
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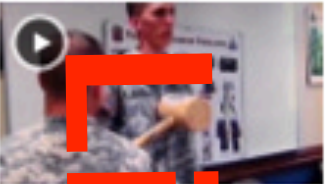
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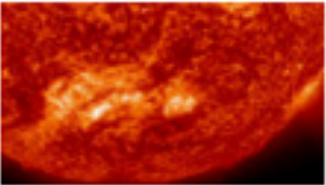
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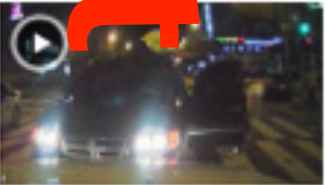
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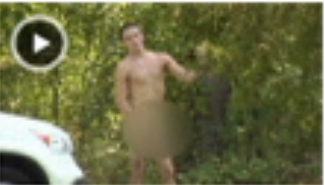
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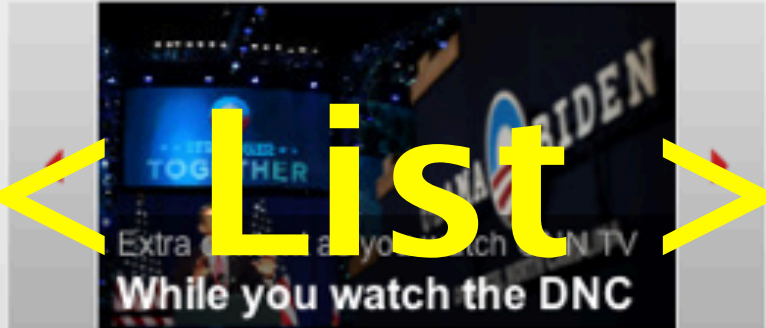
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LIST

0 - 9: COLORS, CLICK: ADD VOXEL, SHIFT + CLICK: REMOVE VOXEL, DRAG: ROTATE | [SHARE](#) [SAVE](#) [CLEAR](#)



**Is the whole web just
a big #@ \$!ing list?**

... pretty much, yeah.

Actually...

Software is basically managing and displaying big, stupid lists in interesting ways.

For example

Spotify. iTunes.

All the apps on your phone, plus the the way you see and organize all
the apps on your phone.

Or go totally cray.

A JPG is just a list of pixel colors.

In other words...

There is no spoon.

Neo

(mind blown)

Array Musings

- `superheroes[0]` = is different than `superheroes.push()`.
 - Former sets the first item in the array.
 - Latter adds a new item to the end of the array.
- Goal with any data structure is to be loosely couple items. Name them too specific and it's confusing later on.
- Should we have a separate supervillians variable?

PHP vs. JS notes

- PHP is largely “flat”. JS is object based. I think JS is easier to understand.
- PHP: `array_push(superheroes, “Aquaman”);`
- JS: `superheroes.push(“Aquaman”);`

For next week

- Terminate your server and rebuild it from scratch. Practice makes perfect.
 - No, this is not a duplicate from last week. Do it again.
- Build out a list of your favorite songs in PHP and JS.
 - At least 5 songs. “Call Me Maybe” doesn’t count as a song.
 - Examine iTunes and Spotify. Think about how you’d want

Questions?