

Introduction to PHP

TCNJ – Web Design 2 : Dynamic

By Jean Ho Chu

Week 01. Jan 19. 2012

What is Dynamic Website?

Dynamic Website

- ASP.NET, JSP, Ruby on rail, PHP, etc
- Scripting language
- Generates the code for the site
- Acts on the server, lives on the server
- Server Side Programming
- Back End Development

- Has memories
- Responsive, malleable

- More difficult to develop the initial website

Static Website

- HTML, Javascript, etc
- Compiled language
- Only displays pages
- Acts, lives anywhere clients are
- Client Side Programming
- Front End Development

- No memories
- Not responsive

- Quick and cheap to develop the initial website

This is Static HTML Website...



This is Dynamic Website !

Molds & Frames



Server side code provides templates from the server

Contents



Contents are provided by users or from databases

Fast, Clean, Easy
Diverse results!



The html page of what the users see is generated!

What is Client ? Server?

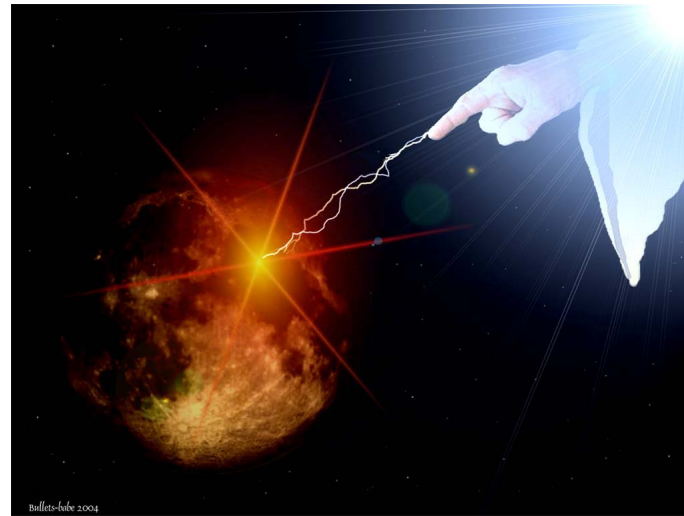
Client

- Visible Nature



Server

- Invisible God



What is Client ? Server?

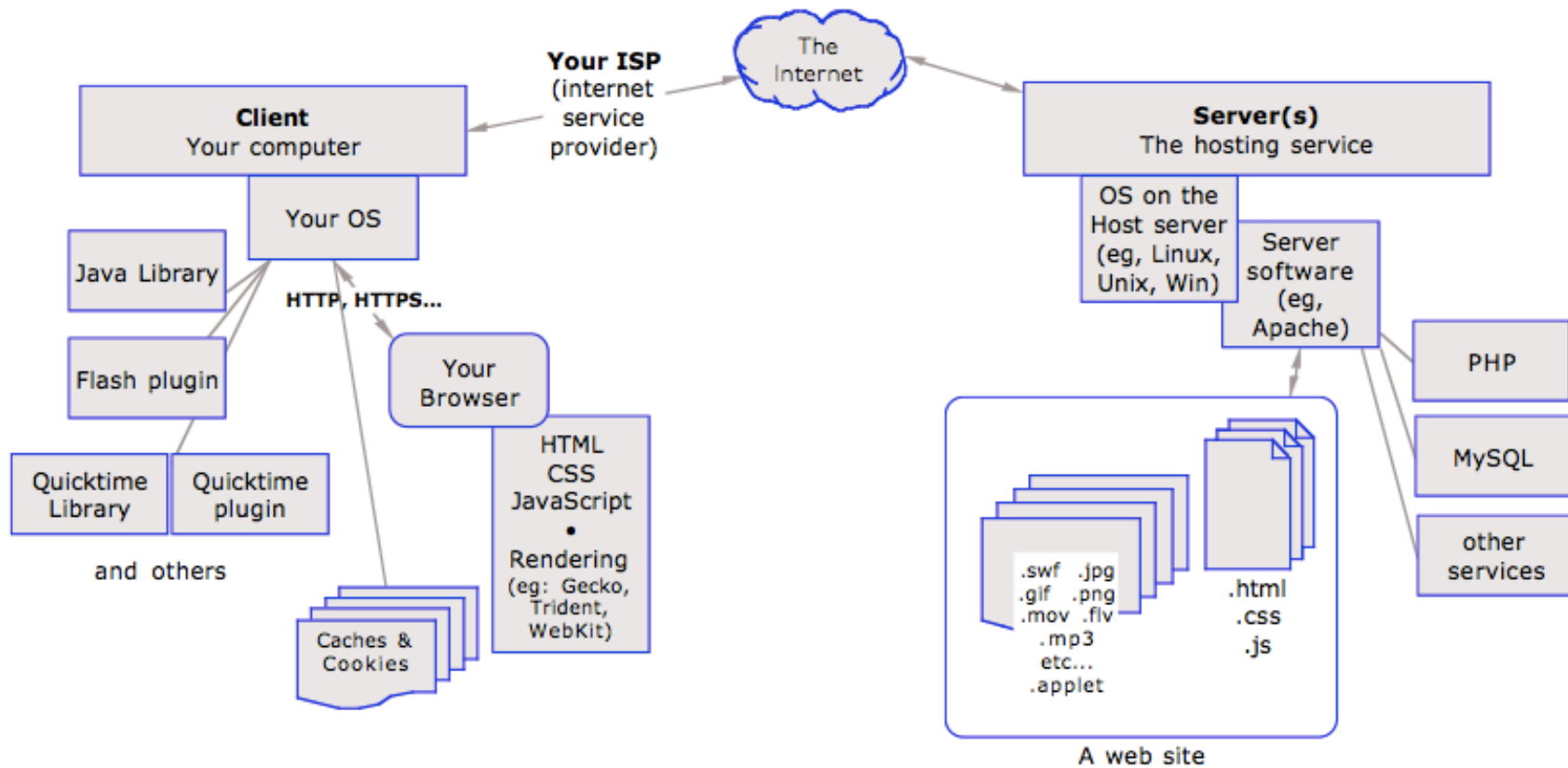
Client

- From your computer
- All the user interactions happen from the client

Server

- From the hosting service
- Never shown directly, performs and executes on the browser

Simplified Client-Server Relationship
 What's where? Who knows what? Who's talking, who's listening?

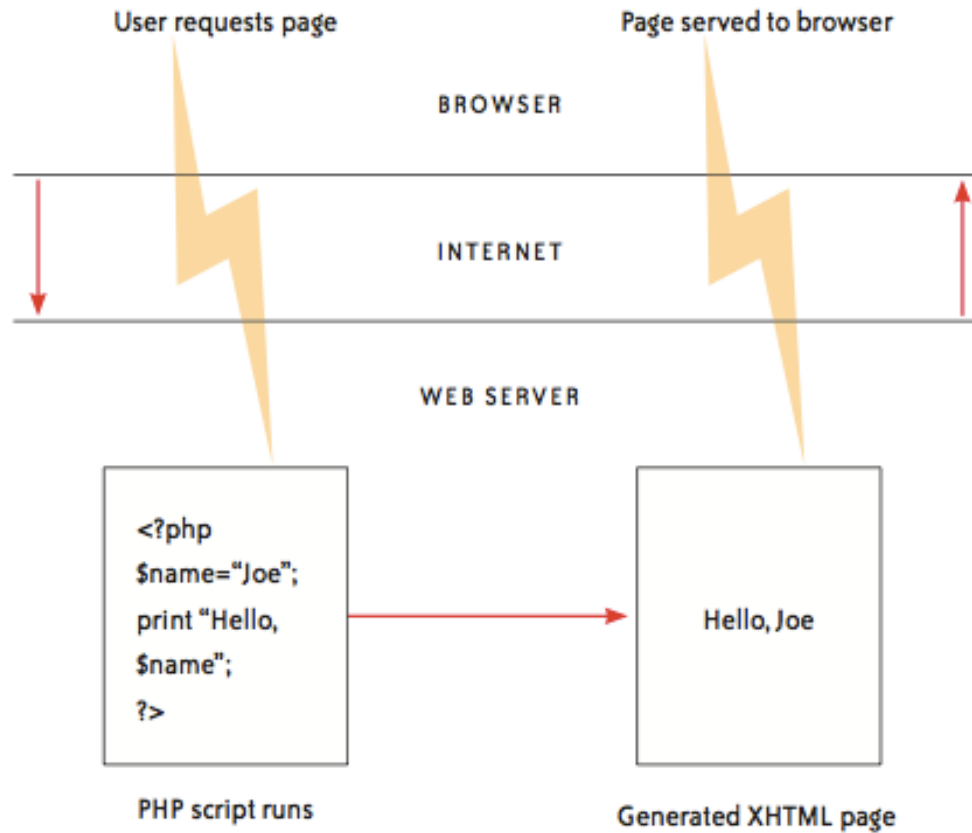


What is PHP?

- PHP : “Hypertext Preprocessor.”
- “Widely used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML.” - from www.php.net-

How does PHP act?

User



How to use?

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
  Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
  transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en"
  lang="en">
<head>
  <meta http-equiv="Content-Type" content="text/
  html; charset=utf-8"/>
  <title>Who are you?</title>
</head>
<body>
<?php

print "Hello";

?>

</body>
</html>
```

- Can be embedded into HTML page
- Starts with `<?php`
- Closes with `?>`

What is Database?

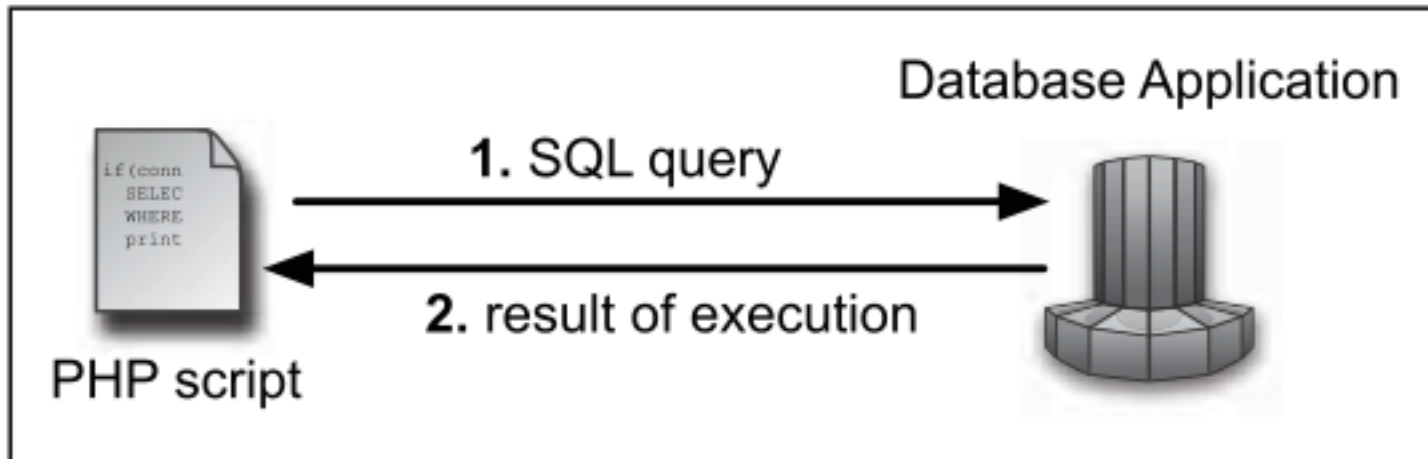
- A database is a collection of tables (made up of columns and rows) that stores information.

id	id1	name	category
1	188525351253408	bjork: biophilia liv	Unknown
2	205725192850787	ē, ēf¥ ì, fì§©iš"	Product/service
3	111344135614009	Chi2012	Non-profit organizat
4	222141594496005	AIGA NY	Local business
5	246042278796260	ē~ē»~ì,œ íŽ~ì®ìiŠ=ē	Community
6	13259856990	American Museum of N	Museum/art gallery
7	7224956785	Samsung Mobile USA	Product/service
8	164680353586283	Facebook timeline	Community
9	7040724713	Yahoo!	Website
10	174033634611	HUGE	Company
11	278490055523173	An infographic that	Website
12	199119680134536	The Metropolitan Mus	Local business
13	115384328477363	The Creators Project	Arts/humanities
14	67692068407	Social Graph	Application
15	162029073851756	Social Relay Mail	Application
16	113700398662301	Demo Application I T	Application
17	125240220719	CLUB MONACO	Clothing

What is MySQL?

- MySQL : most popular open-source database
- Database Management System (DBMS)
- Cf) Oracle and Microsoft's SQL Serve are also database, and are competitors to MySQL

PHP & MySQL



A PHP will be used to send an SQL statement to MySQL. MySQL will execute the statement and return the result to the PHP script.

How to use?

- PHP's `mysql_query()`
- `$result = mysql_query(SQL command, → database connection);`

Why use PHP and MySQL?

- Easy to edit and update
- Let the users fill in the space (ex : facebook my pages, blogs, etc...)
- Save and Access to Database (impossible with html)
- and more...

*All in all, **TO MAKE A DYNAMIC WEBSITE***

Examples of Dynamic Websites

WordPress.ORG

Home Showcase Themes Plugins Mobile About Docs Blog Forums Hosting

Free Themes Directory

Username Password Log in (forgot?) or Register

Extend Home

Plugins

Themes

- Commercial
- More Info
- Contact Us

Mobile

Ideas

Kvetch!


Search Themes

Search

Free WordPress Themes » Most Popular

RSS Feed


Twenty Ten



The 2010 theme for WordPress is stylish, customizable, simple, and readable -- make it yours with a custom menu, header image, and background. Twenty Ten supports six widgetized areas (two in the sidebar, four in the footer) and featured images (thumbnails for gallery posts and custom header images for posts and pages). It includes stylesheets for print and the admin Visual Editor, special styles for posts in the "Asides" and "Gallery" categories, and has an optional one-column page template that removes the sidebar.

Updated 2011-12-12 Average Rating ★★★★★

Twenty Eleven



The 2011 theme for WordPress is sophisticated, lightweight, and adaptable. Make it yours with a custom menu, header image, and background -- then go further with available theme options for light or dark color scheme, custom link colors, and three layout choices. Twenty Eleven comes equipped with a Showcase page template that transforms your front page into a showcase to show off your best content, widget support galore (sidebar, three footer areas, and a Showcase page widget area), and a custom "Ephemera" widget to display your Aside, Link, Quote, or Status posts. Included are styles for print and for the admin editor, support for featured images (as custom header images on posts and pages and as large images on featured "sticky" posts), and special styles for six different post formats.

wordpress.org/extend/themes/ Average Rating ★★★★★

STOP CENSORSHIP

wordpress

Framework and template for making portfolio websites and blog

-> To edit and update easily

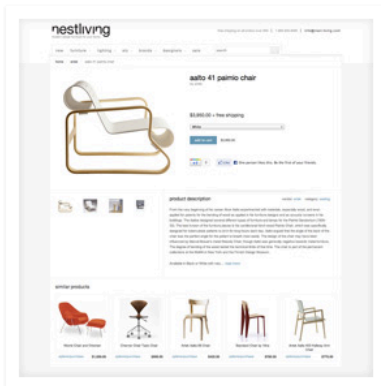
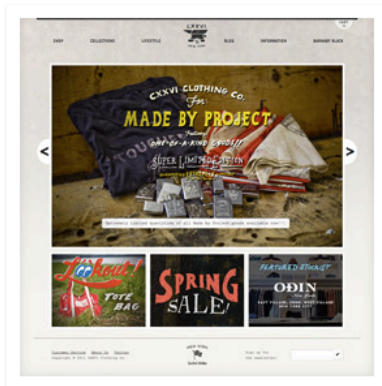
The screenshot shows the WordPress admin interface for user 'Jean Ho Chu'. The 'Posts' section is active, displaying a list of 30 items (17 published, 13 private). The table below lists the first 8 items:

<input type="checkbox"/>	Title	Author	Categories	Tags		Date
<input type="checkbox"/>	Artist's Websites - Private	admin	Web / UI Design	No Tags	0	2011/12/09 Last Modified
<input type="checkbox"/>	Polystory - Private	admin	Web / UI Design	No Tags	0	2011/12/09 Last Modified
<input type="checkbox"/>	Where the Wind Blows	admin	Interactive	No Tags	0	2011/12/01 Published
<input type="checkbox"/>	Carlyle Cleaners - Private	admin	Web / UI Design	No Tags	0	2011/11/10 Last Modified
<input type="checkbox"/>	Ceft and Company	admin	Web / UI Design	No Tags	0	2011/11/10 Published
<input type="checkbox"/>	Easy IPD	admin	Web / UI Design	No Tags	0	2011/06/10 Published
<input type="checkbox"/>	Aurelia	admin	Interactive	No Tags	0	2011/05/18 Published
<input type="checkbox"/>	Weather Bytes	admin	Interactive	No Tags	0	2011/05/05 Published

wordpress

Framework and template for making portfolio websites and blog

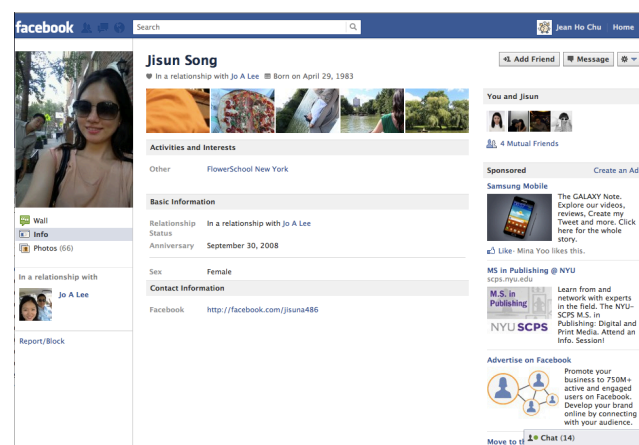
-> To edit and update easily



shopify

Framework and template for making shopping mall.

-> To remember user's interactions



facebook

Social networking service

-> To provide a platform for the users to fill in and share the contents

HOME PAGE TODAY'S PAPER VIDEO MOST POPULAR TIMES TOPICS

Subscribe: Digital / Home Delivery | jeanhochu | Help

Total Liquidation.

The New York Times

Wednesday, January 18, 2012 Last Update: 3:39 PM ET

The Florida Keys & Key West ... come as you are

Search ING DIRECT Follow Us f t | Subscribe to Home Delivery | Personalize Your Weather

Switch to Global Edition

JOBS
REAL ESTATE
AUTOS
ALL CLASSIFIEDS

WORLD
U.S.
POLITICS
NEW YORK
BUSINESS
DEALBOOK
TECHNOLOGY
SPORTS
SCIENCE
HEALTH
OPINION
ARTS
Books
Movies
Music
Television
Theater
STYLE
Dining & Wine
Fashion & Style
Home & Garden
Weddings/
Celebrations
TRAVEL
All Blogs

Web Protests Piracy Bills, and Senators Change Course

By JONATHAN WEISMAN
32 minutes ago

Protests on Wednesday quickly cut into support for two Internet piracy bills as Senator Marco Rubio, Republican of Florida, said he would no longer back the legislation he co-sponsored.

- Bits: Protests Move Offline 3:08 PM ET
- Live Coverage From @NYTLive
- Times Topics: SOPA and PIPA Legislation

Post a Comment | Read (606)



Today's TimesCast
Internet firms flex their political muscle, and more



Adam Ferguson for the International Herald Tribune

SIEM REAP JOURNAL

Where Koreans Go to Reunify

By THOMAS FULLER 49 minutes ago

A chain of restaurants run by North Korea — including in Siem Reap, Cambodia, above — lets North and South Koreans mingle in a way they never could back home.

CAMPAIGN 2012

Timing of Romney's Disclosure Could Be Beneficial

By MICHAEL D. SHEAR

If Mitt Romney is the Republican presidential nominee, his taxes might seem like old news by the fall.

- Political Memo: Risks for G.O.P. in Attacks With Racial Themes

OPINION »

ELECTION 2012

Show Me Your Taxes!
Brooks and Collins wonder what's too much.

Campaign Stops: How the phrase "under God" shifted from promoting unity to promoting capitalism.

- Friedman: Egypt Policy
- Dowd: Hunting, Dear Sir?
- Bittman: A Twinkie Tale
- Loyal Opposition: McCain's Research on Romney
- Editorial: Preaching Division in South Carolina
- Op-Ed: My So-Called Bipolar Life



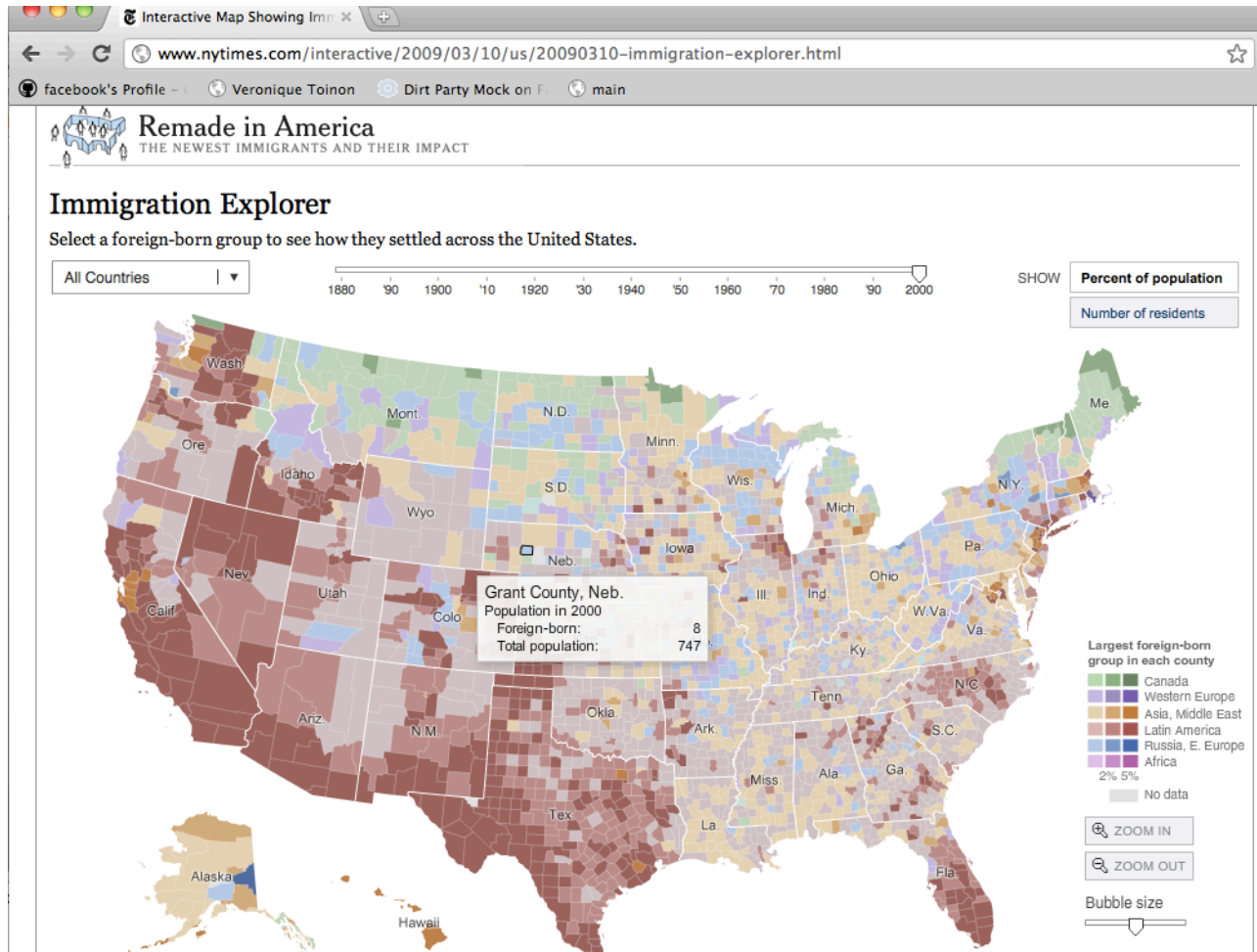
REPLAY

New Starbucks®
Blonde Roast

The lighter roast perfected.

nytimes

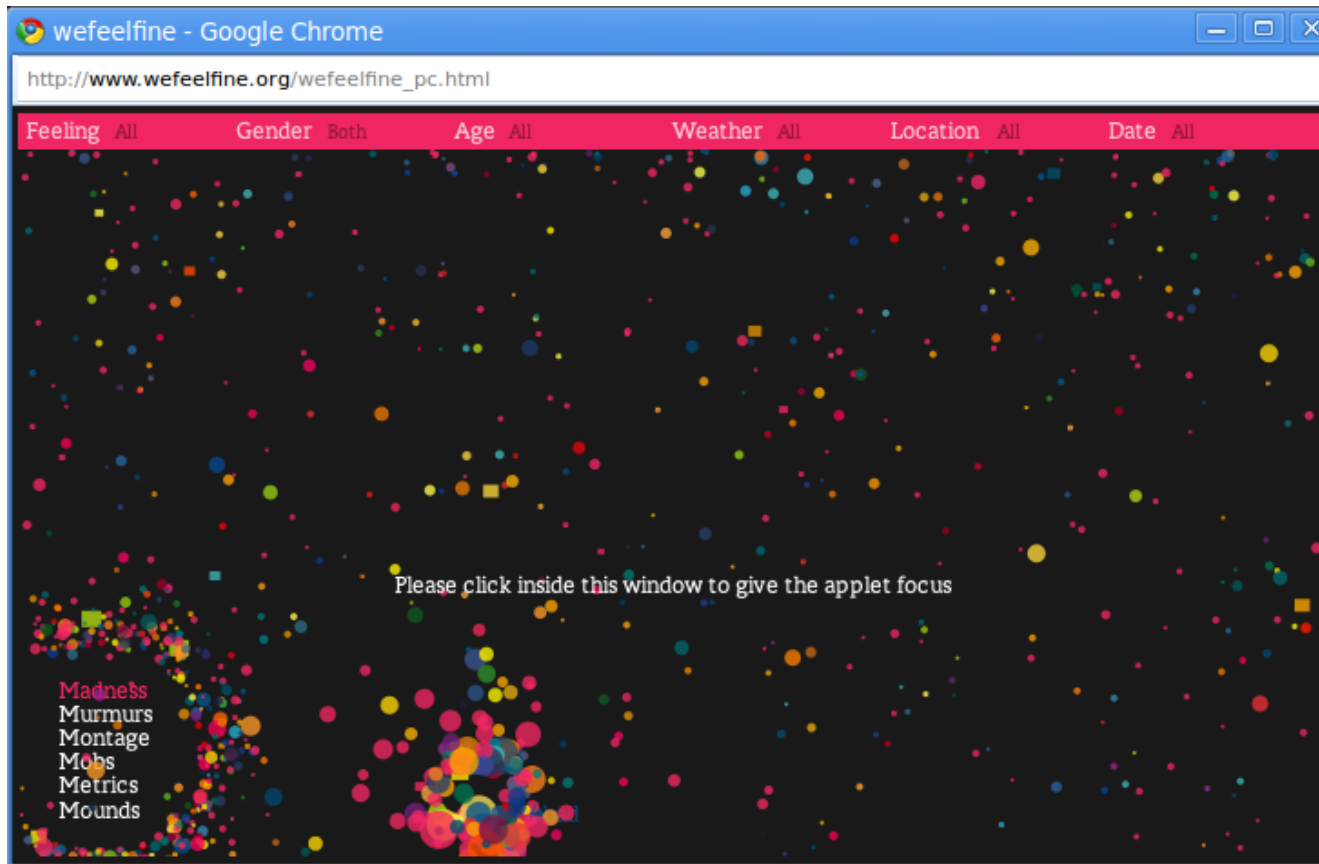
All about organizing data



Data visualization

Nytimes interactive graphics

-> To provide real time interactive data visualization



Wefeelfine.org

Web project to sort and view blog posts with emotional contents

-> To provide a different interface and meaning for the web



[Click above to investigate.](#)

ABOUT THE PROJECT

© 2008 Aaron Koblin + Takashi Kawashima

Interactive Web Art Projects

Aaron Koblin, Ten Thousand Cents

-> To explore new possibilities for engaging users as part of the art project



YOUR WORK GOES HERE

Please do not hesitate to explore with creative projects
engaging dynamic web technologies 😊