

Architecting

RIA

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What is



by **Kushal Das**

Is it...

Rural Inoculation Association?

Rare Isotope Accelerator?

Royal Institute of Acting

Rampantly Inept Alien?

Royally Idiotic Annoyance?

Really Inane Acronym?

Rich Internet Application?

Where does RIA Fit?

Ubiquity

Web

Richness

Supplemented Web

Next Generation

Platform Optimized

What's different with RIA?

new for **Desktop Developers**

Browser Sandbox

Back Button and Refresh

State management

Limited Runtime

new for **Web Developer**

Business Logic in UI

Non-text based layout

Service Orientation

Component Level Logic

Hype
Visual Vocabulary
Animation

Top 10 **Best** Practices

1



Form follows function

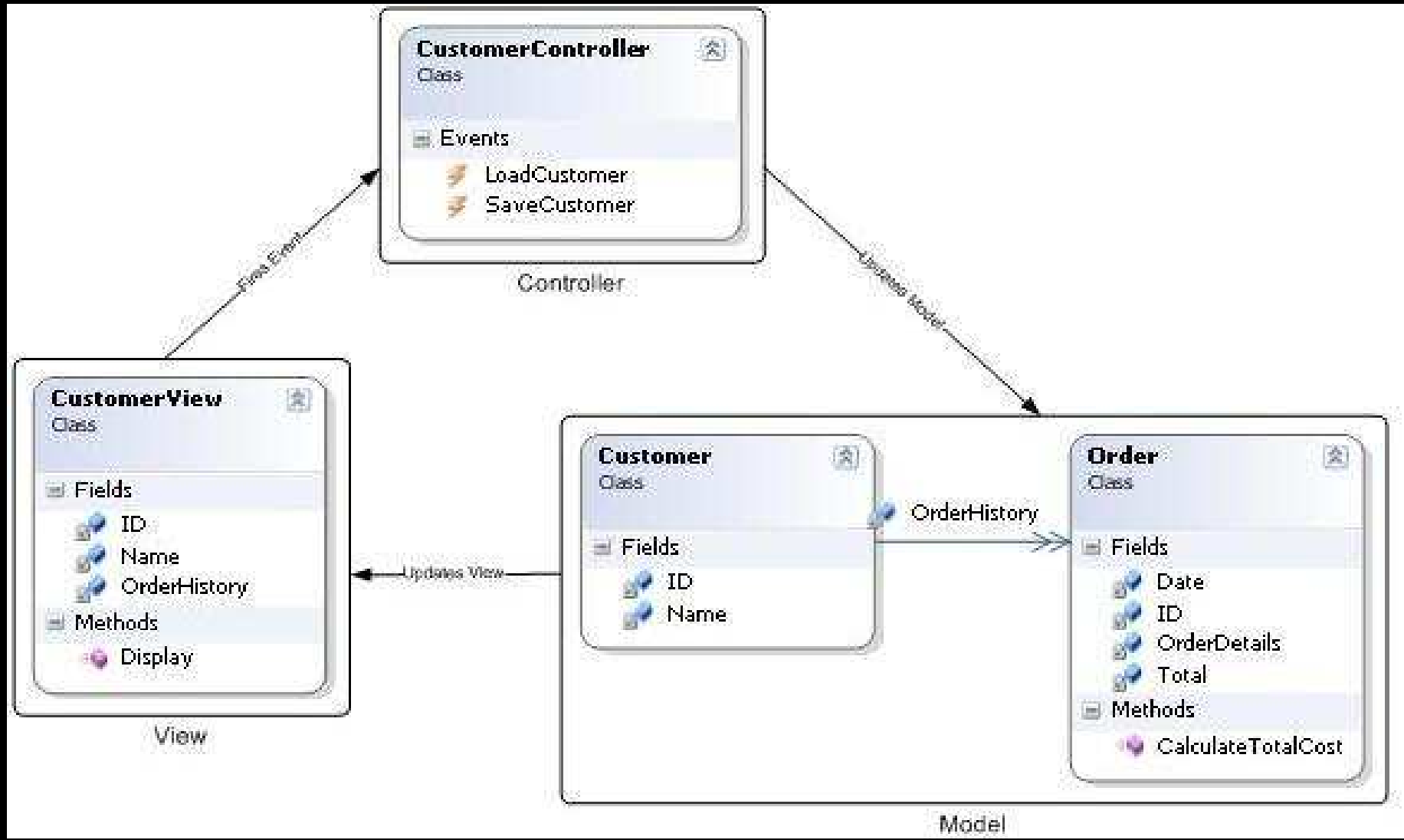
Taliesin West: Drafting Studio



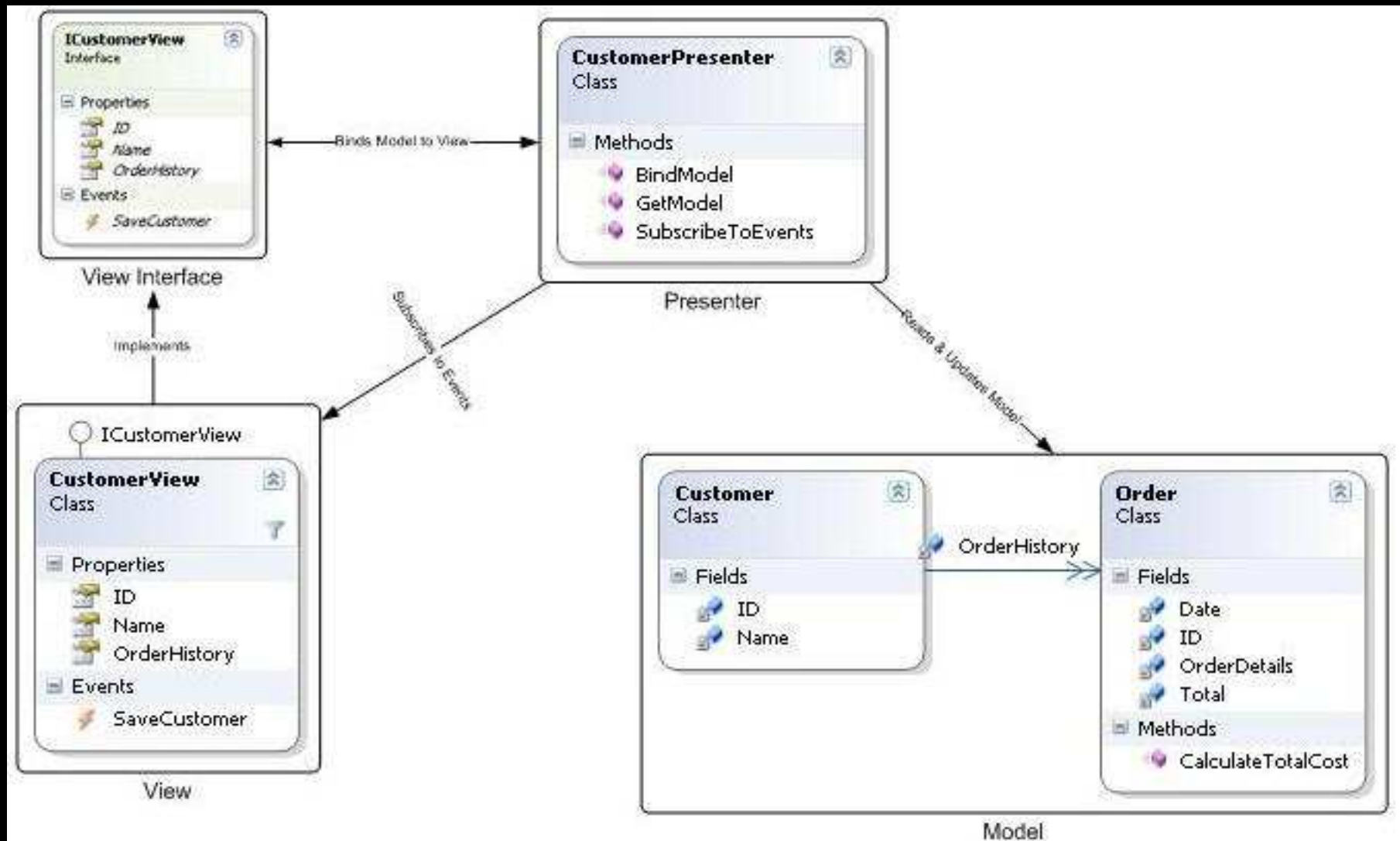
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MVC



MVP



Head to head...

■ MVP Pattern

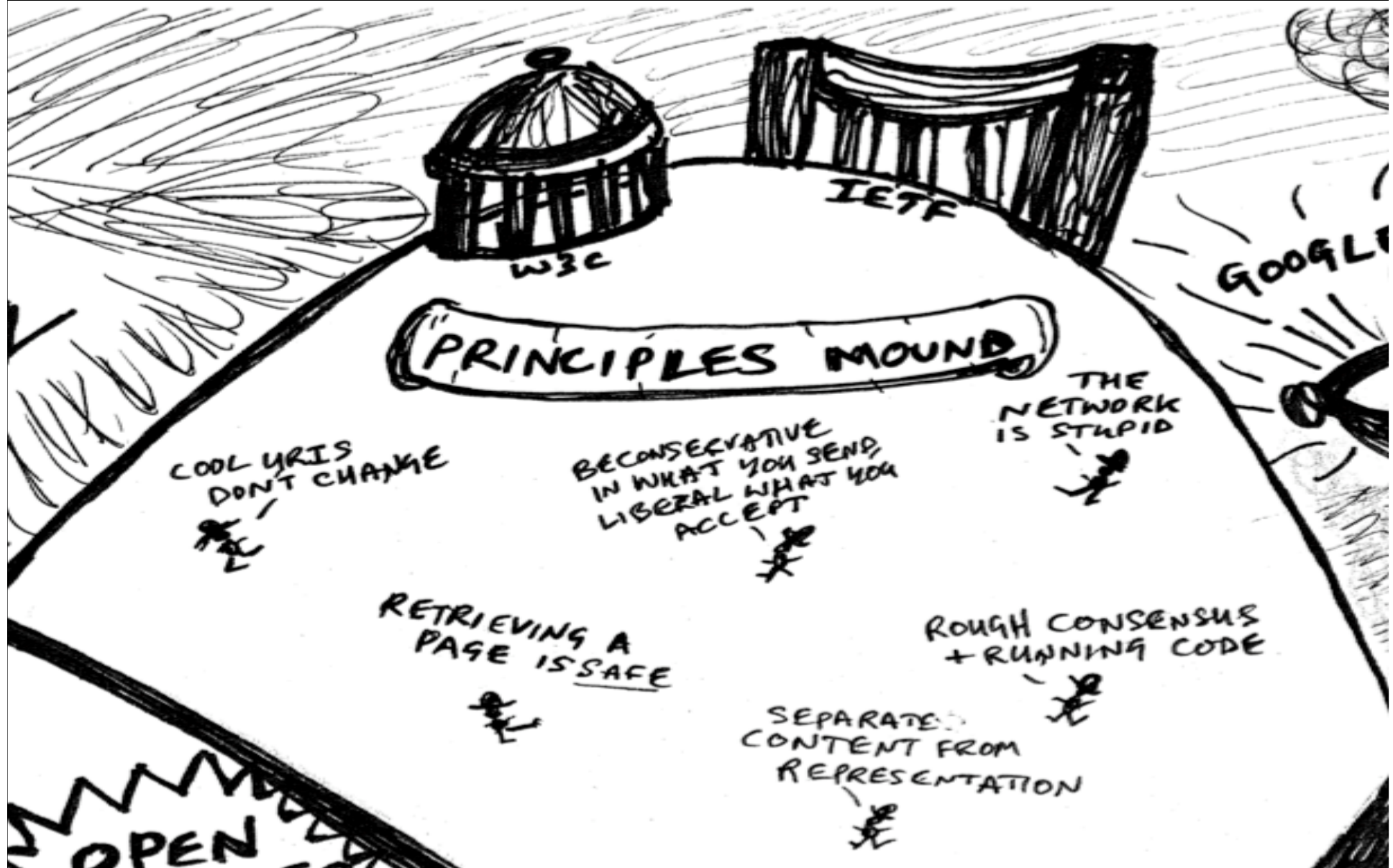
- View is more loosely coupled to the model
- Easier to unit test
- Usually view to presenter map one to one
- Complex views may have multi presenters

■ MVC Pattern

- Controller are based on behaviors and can be shared across views
- Can be responsible for determining which view to display (Front Controller Pattern)

2

Create a set of design tenets



3



**Use the
appropriate level
of fidelity**

ProtoXAML



Forest for the trees



4

**Build with the customer
and user's input**



5

Build for **ease of use** ...



..but don't forget the **power users**

6

Plan for concurrency



Optimistic or Pessimistic?



7

Balance the computing load



8

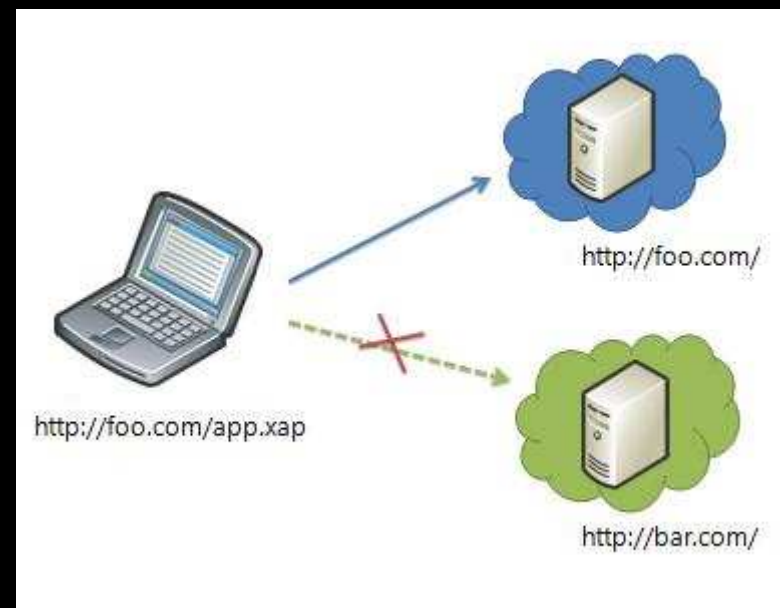
Balance
security



with usability

Understanding Cookies and Cross-Site

- Cookies are on a domain level
 - bar.com cannot access foo.com cookies...
 - Same domain - http://foo.com is different than http://bar.foo.com or http://www.foo.com
 - Same protocol - http://foo.com is different than https://foo.com
 - Same port - http://foo.com is different than http://foo.com:8080
- foo.com should feel secure storing user data in cookies
- Prevent cross-site forgery
 - Exploits a sites trust for a user

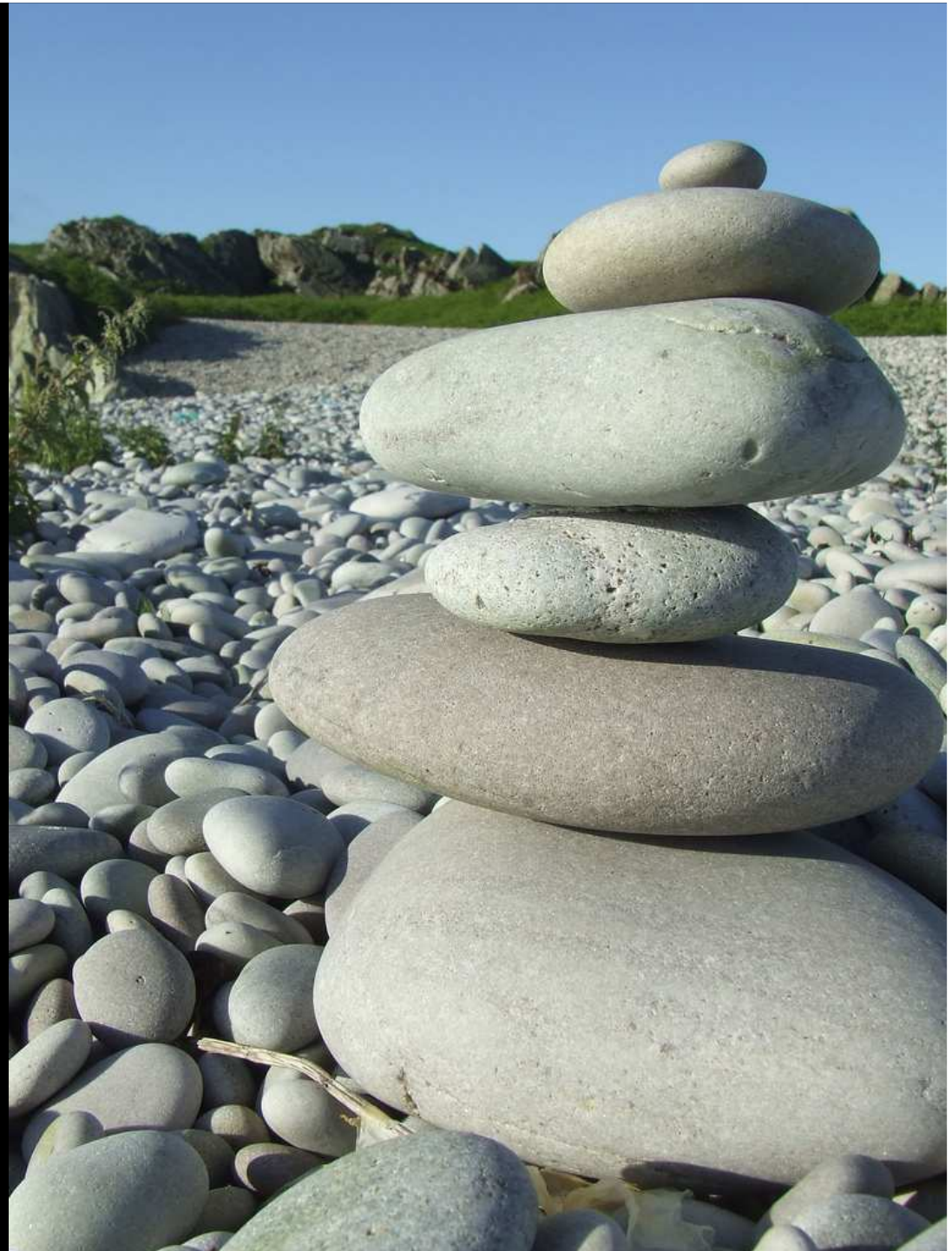


Dos and Don'ts

- “Private” services (for your own app)
 - DO use browser-based authentication
 - Cookies, HTTP Auth, etc.
 - DO NOT enable public access via cross-domain policy file
- “Public” services (for 3rd-party apps)
 - DO NOT use browser-based authentication
 - DO publish cross-domain policy files
 - DO use “cross-domain-safe” authentication
 - E.g. URL signatures
- DO separate public services in their own domain
 - E.g. `api.flickr.com` vs. `www.flickr.com`

9

**Build for
supportability &
maintenance**



10

MOBILE WEB DESIGN

A BOOK BY CAMERON MOLL

A web standards approach for delivering content beyond the desktop

Much has been written about mobile devices. Plenty has been written about developing websites for the so-called "standards era" of the web. However, little has been written about the two colliding. This resource aims to fill that void.

REASONS TO BUY

- Discover how to deliver web content to mobile devices (nearly 3 billion worldwide)
- 104 pages of practical advice, tips, & examples
- More than 40 full-color screens from actual devices
- Written by one of the world's leading web designers

If you're in a position to develop for, manage, or give advice regarding your organizations foray into a web strategy for mobile devices, then this book is for you. [Purchase a PDF copy now.](#)



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First 599 buyers will be entered to
Win an iPhone 8GB

Winner may substitute a pre-selected device of equivalent value if iPhone support is not available in winner's area.

“Very good and clearly written. Certainly another great reference to help people find their way in the world of the Mobile Web.”

Jo Rabin - *dotMobi* Director & W3C Co-Chair

cameromoll

Remember your user's context

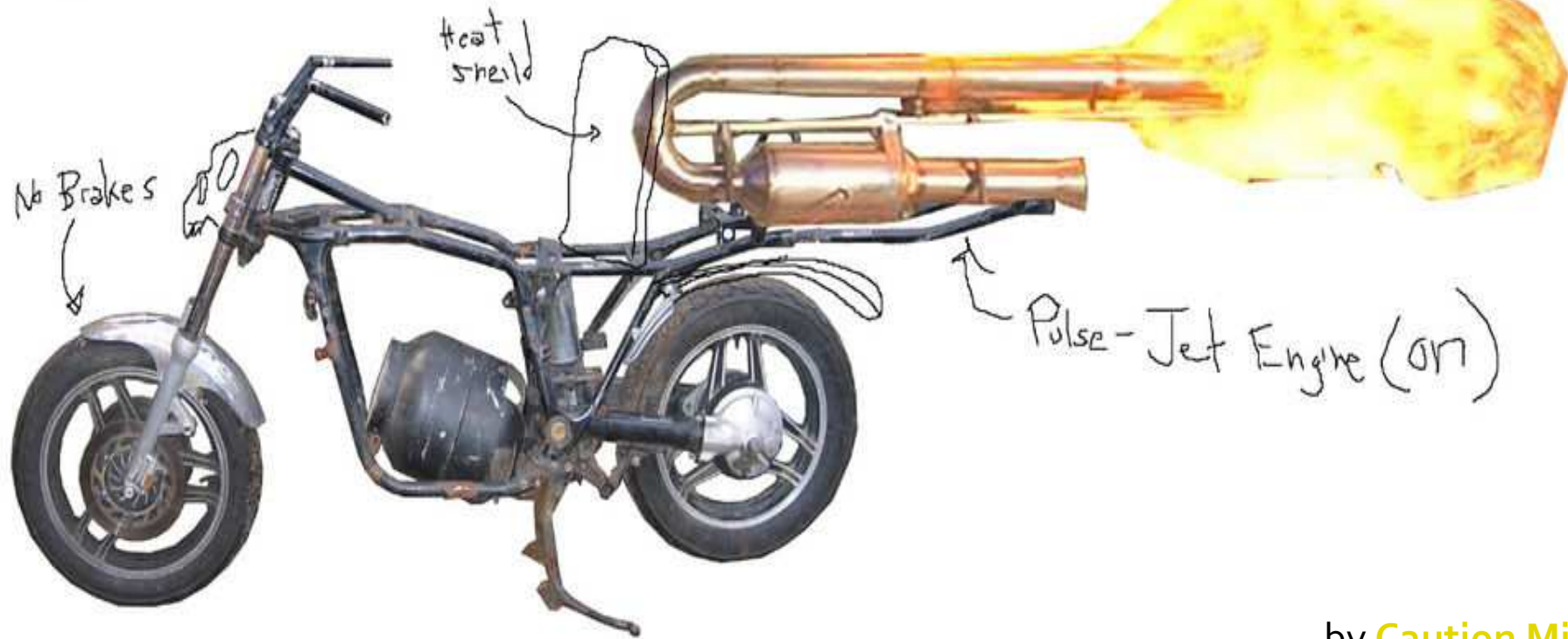
What are some of **your** best practices?

Top 10 **Worst** Practices

1

Jet Bike

BY: HACK & JASON



by [Caution Mike](#)

building web 1.0 sites with web 2.0 tech

2



Forgetting page refresh

3

Breaking web standards

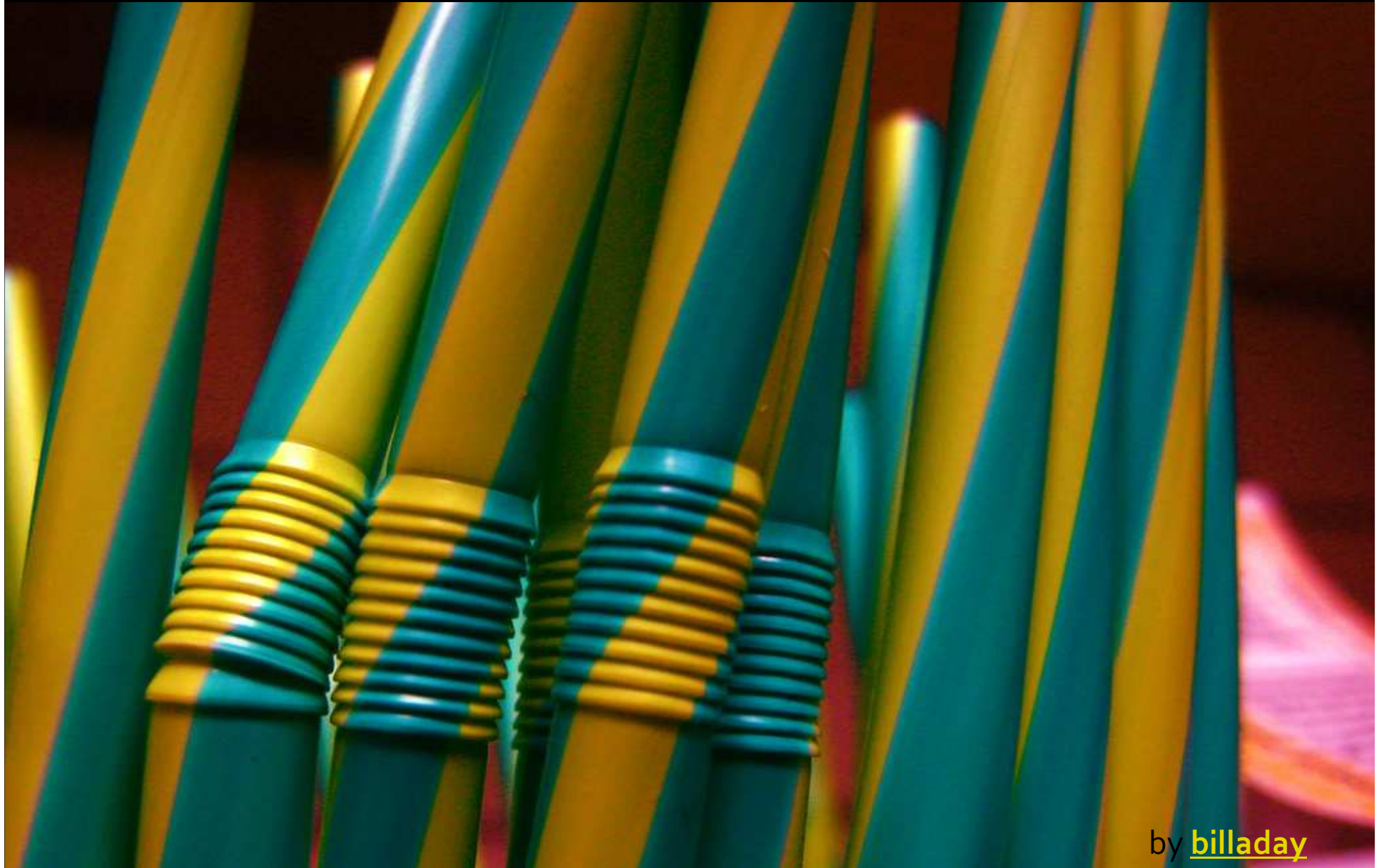
HTML CAN NOT



DO THAT!!!1!!

4

Ignore your bandwidth



by [billaday](#)

5

Getting animation happy

DO NOT USE

**Restrooms for
VOMITING! Vomit goes
OVER RAIL ONLY!**



**Thank You,
Your Crew**

6

Not leveraging framework



7

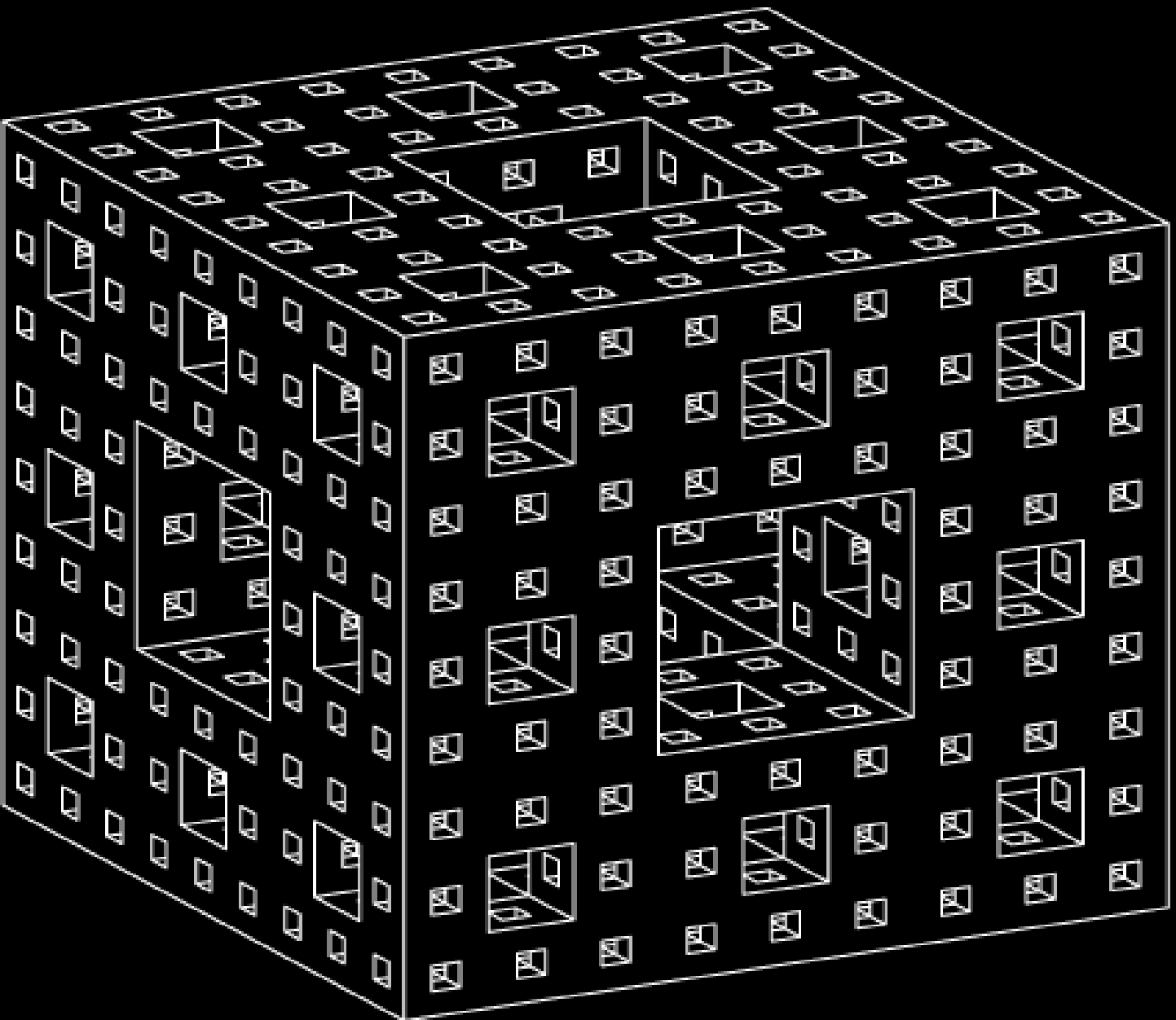
Cowboy dev



by joeltelling

8

Too many containers



9



by mikeyexists

Overly complex rendering

10



What are some of **your** worst practices?



Take-aways

- Rich Internet Applications are meant to enhance user experience
- Architecture of the client matters
- Use good development practices
- Leverage the framework
- Build for the user
- Don't get religious



Take the Next Step

- <http://www.joshholmes.com>
- <http://www.jamesward.com>



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