


MOBILE WEB DESIGN

cameromoll



This webinar is presented by W3C to the Web community as part of an EU IST project (3GWeb). The content of this webinar does not necessarily represent the official position of the W3C, or the position of any of the W3C members or W3C's host institutions.

(Lawyer says 'Hi'!)

YOU ARE...

Experienced with XHTML/CSS.

Familiar with good markup techniques.


Unsure about this “mobile web thing”.



LEGACY



1910




“Pocket watches provide the closest historical parallel to the remarkable rise of the mobile phone.”

—Jon Agar, *Constant Touch*

STAGGERING NUMBERS

- 1996 GSM phones in 103 countries
- 2000 10 million i-mode users (Japan)
- 2002 1 billion mobile phone users worldwide
- 2009 3 billion mobile phone users worldwide



UK More mobile phones than humans...



QUANDARY

READER POLL

Highly scientific, statistically significant

(not really!)

~400

Participants

159

Unique handsets


(Motorola RAZR, Palm Treo 650, Sony Ericsson K750i / K700i / T610, Nokia 6230...)

19

Manufacturers

44

Countries



“Designers face a proliferation of capabilities that make the early [Mobile] Web look like a playground.”

—Joe Shepter, “The Pulse of Modern Design”

MOBILE WEB “PLAYGROUND”

WML, XHTML, -MP, -Basic...

Plethora of user agents

Varying coding practices, URIs, etc.

WHAT IS THE MOBILE WEB?

BBC Mobile - Home

Accessibility help
Text only
The Mobile Edition
bbc.co.uk/mobile

BBC Homepage
BBC on your mobile
What do you get?
How do you get it?
What does it cost?
FAQ

Menu 11:06 PM **Back**

FIFA WC

FIFAworldcup.com
YAHOO! OFFICIAL PARTNER

Free SMS Alerts
Sign up now.
* Available only in US & EU

Sign In | Sign Up

Live **Teams** **Info**
News - Schedule - Matches

Latest News



Options **Back**

eBay Mobile

eBay Mobile

NOKIA 6670 Radio, Camera, H/F, Data Cable UNLOCKED!

Item number: 9145844491



Hide Item Image
Watch This Item


Menu 11:15 PM **Back**

Flickr Mobile

[flickr](http://flickr.com) BETA
MOBILE SITE | [Login](#)

Recent photos from everyone

MVI_8942 | [RedMan](#)



Options **Back**

Streetmap.co.uk

[streetmap](http://streetmap.co.uk).co.uk

Streetmap | Homepage

[Business Services](#)
[Streetmap on O2](#)
[Disclaimer](#)
[Advertise on Streetmap](#)
[How to link to us](#)
[Search Tips](#)

Options **Close**

Technorati Mobile

Technorati Mobile

Search 44.1 million blogs for the latest on:

Search

Top searches this hour:
"World Cup"
Scoble
"Some Of All Fears"
Myspace
"Those Pesky Voters"

Menu 11:10 PM **Back**

Text message

3G < 6/11 >

From **46645**

(1/2)Local Listings:
Candlewood Suites Salina
2650 Planet Avenue
Salina, Kansas **67401**
785-823-9679
3.4 mi, S

Options **Back**



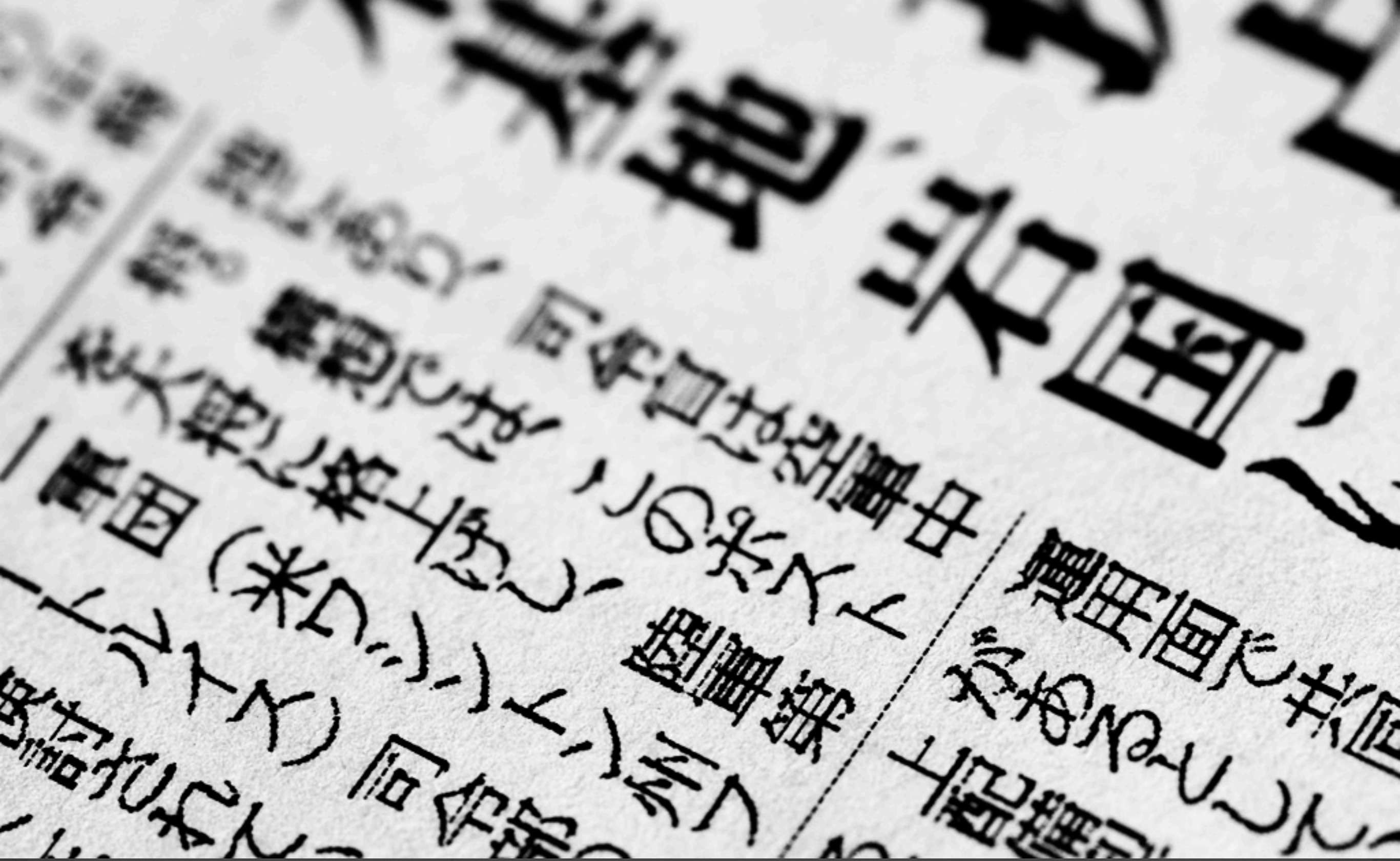
OPTIMISM

More mobiles than PCs.

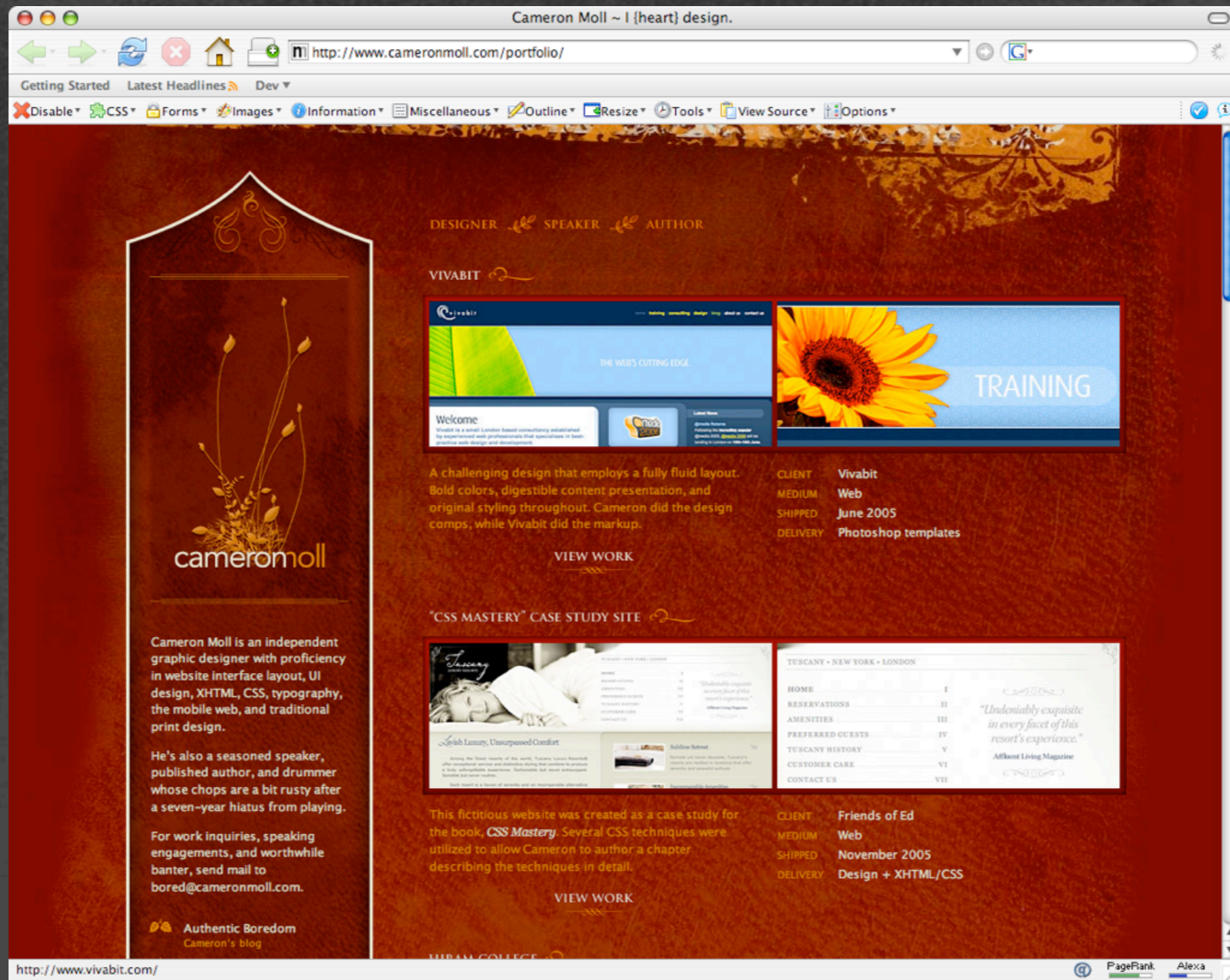
More mobiles than landline phones.

Web usage is continually increasing.

You can utilize existing skills.



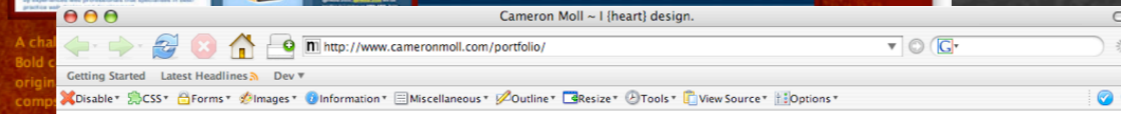
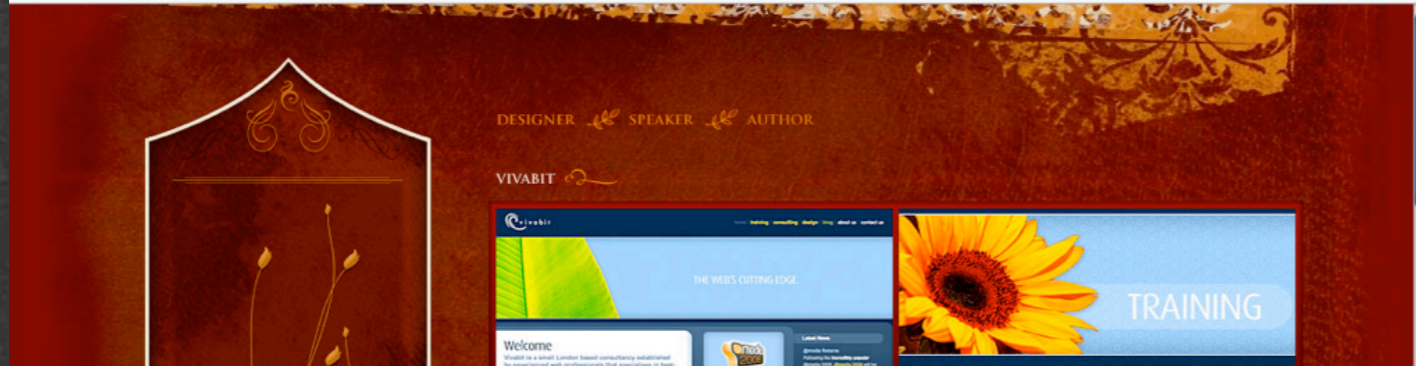
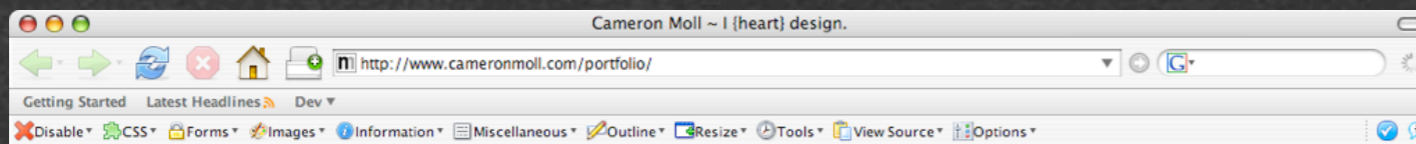
CONTEXT



NOOOO!



INSTEAD... What is contextually relevant?



Cameron Moll

Cameron Moll is an independent graphic designer with proficiency in website interface layout, UI design, XHTML, CSS, typography, the mobile web, and traditional print design.

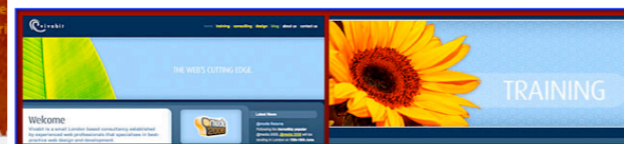
He's also a seasoned speaker, published author, and drummer whose chops are a bit rusty after a seven-year hiatus from playing.

For work inquiries, speaking engagements, and worthwhile banter, send mail to bored@cameronmoll.com.

- [Authentic Boredom](#) Cameron's blog
- [Bio \(PDF\)](#) All nice and neat on one page
- [Best of the Moll](#) ...or so says Zeldman
- [DW Interview](#) Meryl and Cameron, toe to toe
- [Stockphoto Interview](#) Hey, I recognize that guy
- [Google Search](#) Like a bat out of PageRank

Designer – Speaker – Author

Vivabit

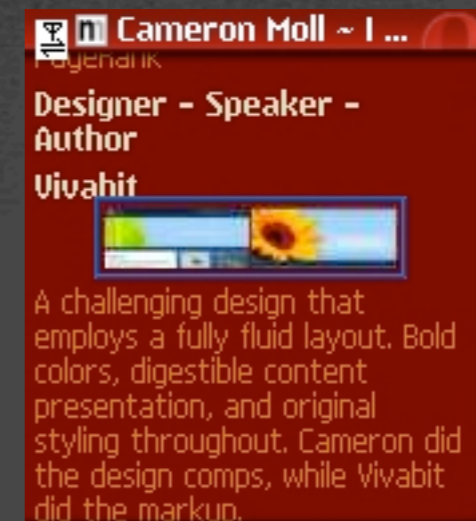


A challenging design that employs a fully fluid layout. Bold colors, digestible content presentation, and original styling throughout. Cameron did the design comps, while Vivabit did the markup.

- Client Vivabit
- Medium Web
- Shipped June 2005
- Delivery Photoshop templates

[View Work](#)

"CSS Mastery" Case Study Site



Menu 8:02 PM Back

Menu 8:05 PM Back

MOBILE = MOBILITY



DESIGN = COMMUNICATION



Therefore, mobile design is the art of
communicating within an
environment of **mobility**.



FUNDAMENTALS


Most devices sold today are WAP 2.0.

XHTML, not WML.

WHAT THAT MEANS...

English360 – Join the global conversation.

http://english360.com/ Google



Join the global conversation.™


TEACHING CONSULTING SOFTWARE BLOG GLOSSARY JOBS CONTACT

Language learning for a global economy

English360 designs and manages language programs. We teach business English classes in Miami, and we deliver workshops and consulting services worldwide.

Our clients are individuals and companies that “think global” and understand the competitive and collaborative advantage of improved communication.

We use a new approach to teaching that focuses language learning on immediate business performance, resulting in improved presentations, effective meetings, efficient email, and successful negotiations. [Get started now](#) ▶



| | | | |
|---|---|--|---|
| Learners ▶ | Teachers ▶ | Schools ▶ | Managers ▶ |
| Deliver your presentations with confidence, and manage meetings with fluency. | Help your students achieve their professional goals, and collaborate with your peers. | Support your teachers' classroom performance, and increase student enrollment. | Grow your talent pipeline, and transform language training ROI into business results. |

RECENT DISCUSSION

Ugly American, or defending individual rights?
Here's a nice simple guide for US teachers (or anyone) travelling or working abroad, on how to adapt to a...
May 12, 2006

The language of "be here now"
This is fascinating: universal grammar vs. an entire culture based on mindfulness. "The Pirahã are a unique people living

FREQUENTLY ASKED QUESTIONS

What is English360?
We're a language learning consultancy specializing in business English. Our clients are professionals, entrepreneurs, managers, and corporate training departments. We help identify language needs and opportunities, design solutions, and manage their language program for business results and high ROI.
But, most of all, we're language teachers. We combine business English teaching and communication training to assure business results for our clients.

Can I take classes from you?
Absolutely. We'll come to your office in the Miami area, or you can schedule classes in our offices on Brickell Avenue in the heart of the Miami financial district. We deliver

English360 – Join the global conversation.

http://english360.com/ Google

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|---|---|--|---|
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English360 Mobile Edition

http://www.english360.com/mobile/

english360
MOBILE EDITION

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2. [Consulting](#)
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Recent Discussion

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May 12, 2006 0 Comments

Also Recent

- [The language of "be here now"](#) - May 8 '06
- [Sandy's take on dogme](#) - May 5 '06
- [New-ish ESL blog](#) - Apr 28 '06

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Menu 6:22 PM Back



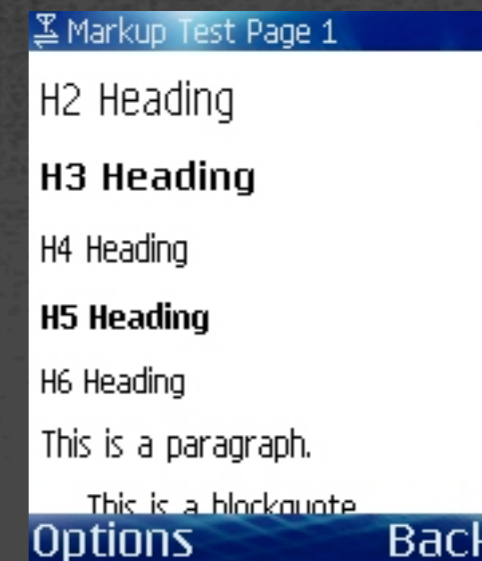
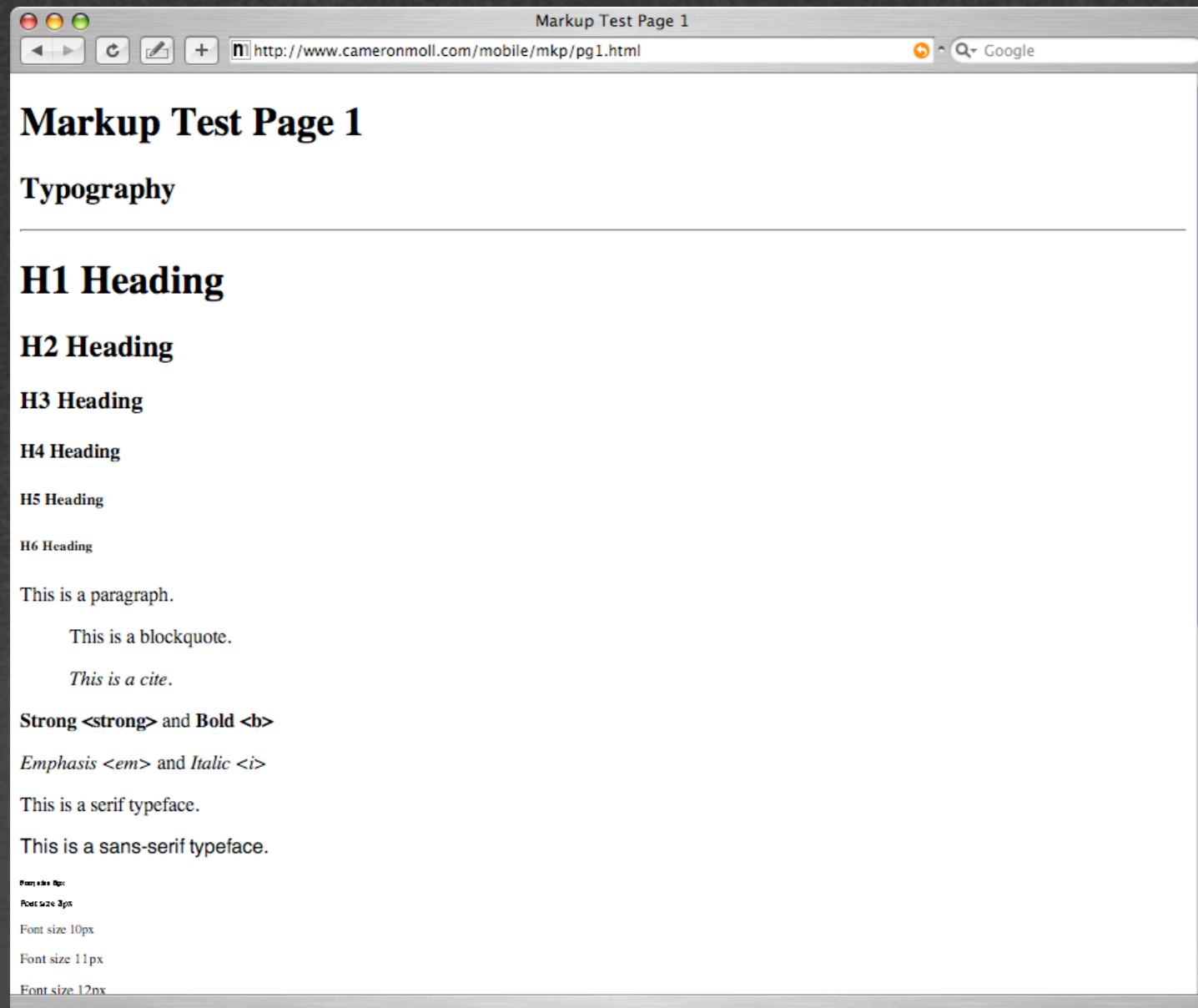
HOWEVER,

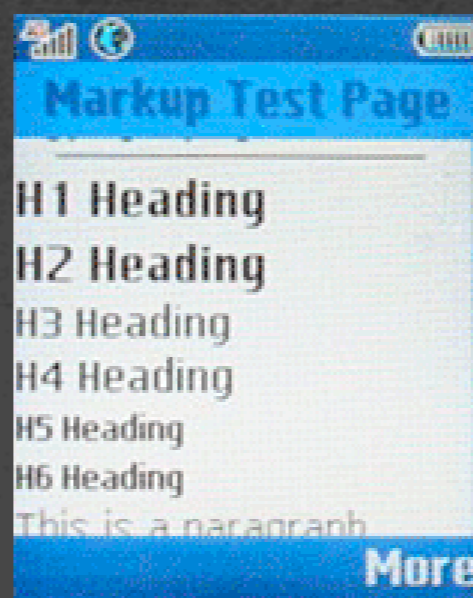
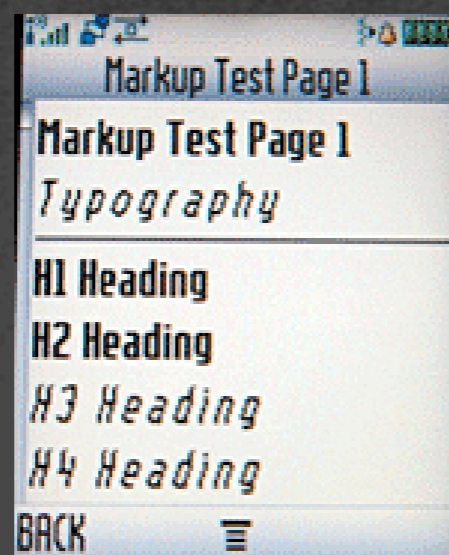
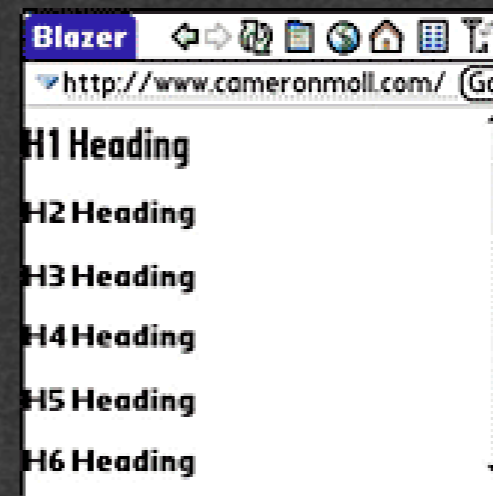
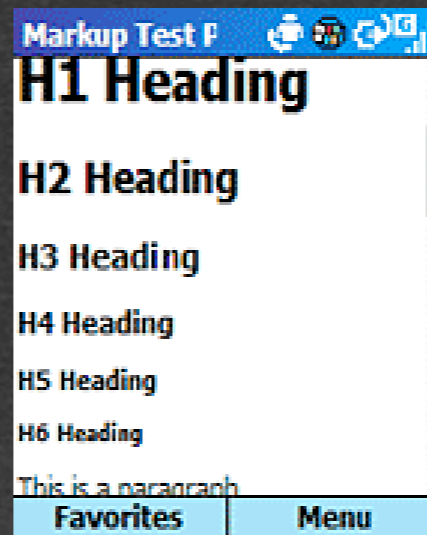
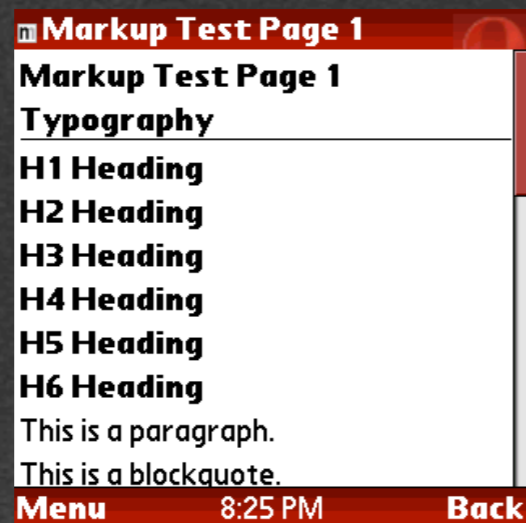
XHTML/CSS support is **inconsistent.***

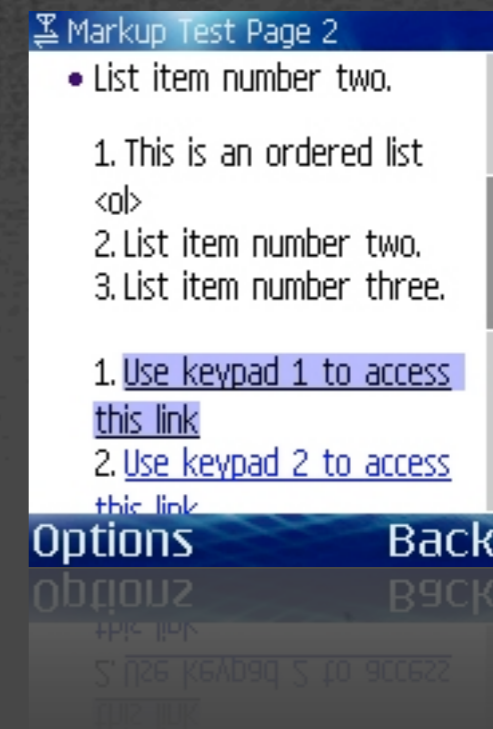
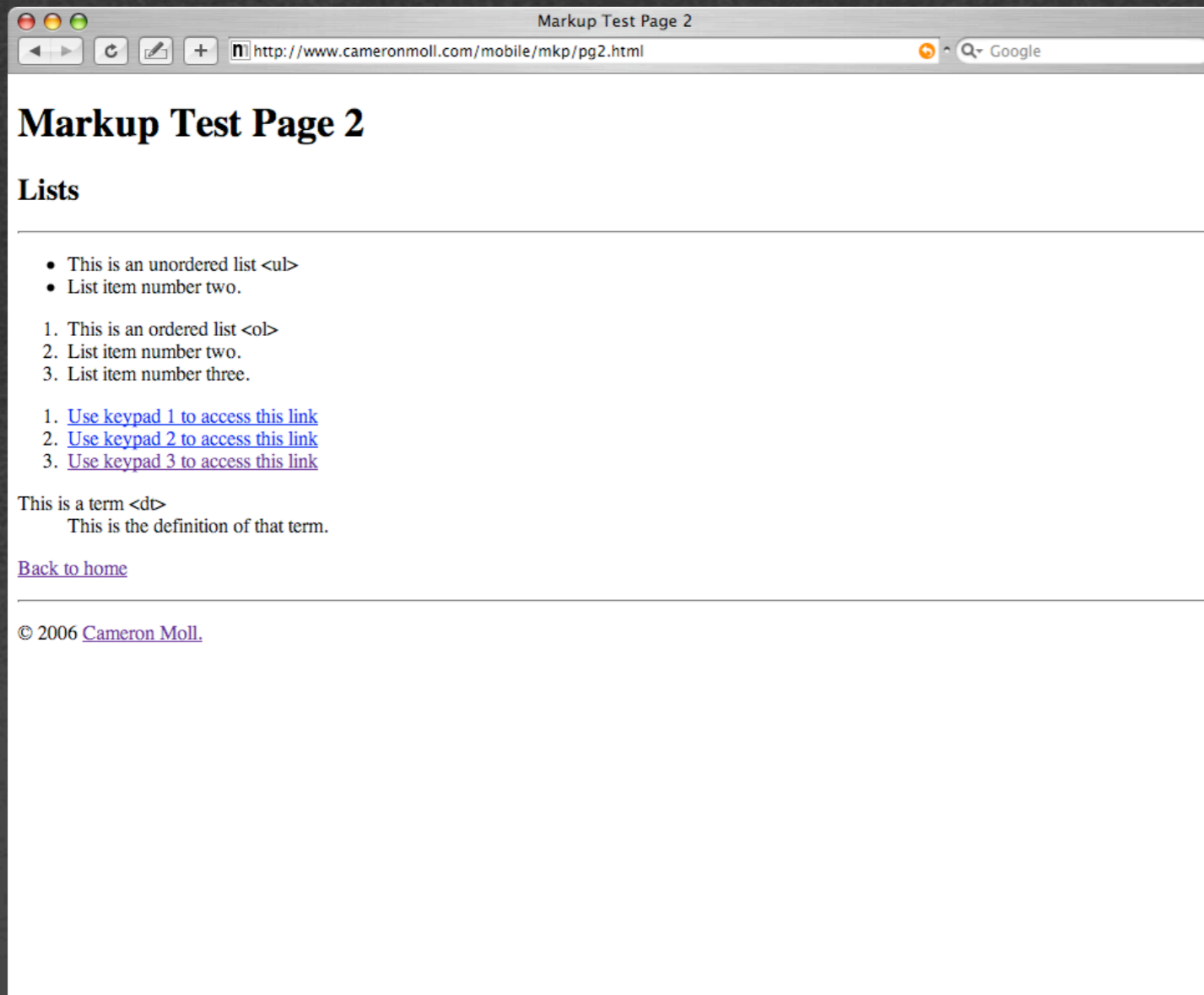
* highly

MARKUP TEST PAGES

cameronmoll.com/mobile








Markup Test Page 2

http://www.cameronmoll.com/mobile/mkp/pg3.html


Markup Test Page 2

Images, Tables


Small image (120x60)



Medium image (250x60)



Large image (460x60)




Two-column table

| | |
|------------|------------|
| Col 1 head | Col 2 head |
| Col 1 data | Col 2 data |


[Back to home](#)

© 2006 [Cameron Moll](#).


Markup Test Page 3



Medium image (250x60)



Large image (460x60)



Two-column table

Options Cancel

Markup Test Page 4

http://www.cameronmoll.com/mobile/mkp/pg4.html

Markup Test Page 4

Advanced

Box with a solid border

Box with a dotted (...) border

Box with a dashed (- - -) border

Box with a double (=) border

Box with solid red background

Box with background image (slanted blue lines)

45% float left

45% float right

This is center-aligned text (text-align: center).

This is right-aligned text (text-align: right).

This is an ABBR.

This is an ACRONYM

This is code.

This is a ~~del~~ (strike-through).

Today's date generated with JavaScript: (Saturday, June 10)

Markup Test Page 4

Box with a dotted (...) border

Box with a dashed (- - -) border

Box with a double (=) border

Options Back



Test on target devices, not emulators.



METHODOLOGY

METHOD

Do nothing.

[craigslist](#)

san francisco bay area

w
sfc sbv ebv pen nbv

[post to classifieds](#)

[help](#) [subscriptions](#)

search craigslist

community [+](#) [>](#)

[event calendar](#) (2687)
S M T W T F S
26 27 28 1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25

["fair" housing lawsuit](#)
[see craigslist movie!](#)
[weather quake tide](#)
[> Katrina Relief <](#)
[best-of-craigslist](#)
[craigslist factsheet](#)
[job boards compared](#)
[list in space](#)
[craigslist T-shirts](#)
[::: craig blog :::](#)
[craigslist foundation](#)
[download firefox](#)
[progressive directory](#)
[system status](#)
[terms of use your privacy](#)
[about us help](#)
© 2006 craigslist, inc

community (11759)

| | |
|----------------------------|----------------------------|
| activities | lost+found |
| artists | musicians |
| childcare | news+views |
| general | politics |
| groups | rideshare |
| pets | volunteers |
| events | classes |

personals (55472)

[strictly platonic](#)
[women seek women](#)
[women seeking men](#)
[men seeking women](#)
[men seeking men](#)
[misc romance](#)
[casual encounters](#)
[missed connections](#)
[rants and raves](#)

discussion forums

| | | |
|--------------------------|-------------------------|-------------------------|
| arts | housing | politic |
| autos | jobs | psych |
| beauty | kink | puger |
| comp | legal | rofo |
| crafts | loc pol | science |
| ecology | m4m | selfemp |
| educ | money | shop |
| feedback | music | spirit |
| film | night | sports |
| fitness | npo/ngo | testing |
| fixit | open | transg |
| food | outdoor | transit |
| gaming | over 50 | travel |
| garden | parent | tv |
| haiku | pets | w4w |
| health | philos | wedding |
| helpdesk | poc | women |
| history | | writers |

housing (27676)

[apts / housing](#)
[rooms / shared](#)
[sublets / temporary](#)

[rooms / shared](#)
[sublets / temporary](#)
[housing wanted](#)
[housing swap](#)
[vacation rentals](#)
[parking / storage](#)
[office / commercial](#)
[real estate for sale](#)

for sale (111501)

| | |
|---------------------------|------------------------------|
| barter | auto parts |
| bikes | baby+kids |
| boats | cars+trucks |
| books | cds/dvd/vhs |
| free | clothes+acc |
| furniture | collectibles |
| general | computer |
| jewelry | electronics |
| sporting | garage sale |
| tickets | household |
| tools | motorcycles |
| wanted | music instr |

services (25524)

| | |
|---------------------------|-------------------------------|
| computer | automotive |
| creative | household |
| erotic | labor/move |
| event | skill'd trade |
| financial | real estate |
| legal | sm biz ads |
| lessons | therapeutic |

jobs

[accounting / finance](#)
[admin / office](#)
[arch / engineering](#)
[art / media / design](#)
[biotech / science](#)
[business / mgmt](#)
[customer service](#)
[education / teaching](#)
[government](#)
[human resources](#)
[internet engineering](#)
[legal / paralegal](#)
[marketing / pr / ad](#)
[medical / health](#)
[nonprofit sector](#)
[retail / food / hosp](#)
[sales / biz dev](#)
[skilled trade / craft](#)
[software / qa / dba](#)
[systems / network'g](#)
[technical support](#)
[tv / film / video](#)
[web / info design](#)
[writing / editing](#)
[\[ETC\] \[part time\]](#)

gigs (4203)

| | |
|--------------------------------|-------------------------|
| computer event | labor |
| creative | writing |
| crew | talent |
| domestic | adult |

resumes (6910)

[albany](#)
[albuquerque](#)
[allentown](#)
[anchorage](#)
[ann arbor](#)
[atlanta](#)
[austin](#)
[bakersfield](#)
[baltimore](#)
[batonrouge](#)
[bellingham](#)
[birmingham](#)
[boise](#)
[boston](#)
[buffalo](#)
[burlington](#)
[chambana](#)
[charleston](#)
[charlotte](#)
[chattanooga](#)

[chambana](#)
[charleston](#)
[charlotte](#)
[chattanooga](#)
chicago
[chico](#)
[cincinnati](#)
[cleveland](#)
[co springs](#)
[columbia](#)
[columbus](#)
[dallas](#)
[davton](#)
[delaware](#)
[denver](#)
[desmoines](#)
[detroit](#)
[el paso](#)
[eugene](#)
[fort mvers](#)
[fresno](#)
[gainesville](#)
[grand rapids](#)
[greensboro](#)
[harrisburg](#)
[hartford](#)
[honolulu](#)
[houston](#)
[humboldt](#)
[indianapolis](#)
[inland emp](#)
[ithaca](#)
[jackson](#)
[jacksonville](#)
[kansas city](#)
[knoxville](#)
[lansing](#)
[las vegas](#)
[lexington](#)
[little rock](#)
los angeles
[louisville](#)
[madison](#)
[maine](#)
[medford](#)
[memphis](#)
[miami](#)
[milwaukee](#)
[minneapolis](#)
[mobile](#)
[modesto](#)
[montana](#)
[monterey](#)
[montgomery](#)
[nashville](#)
[new hamp](#)
[new haven](#)
[new jersey](#)
[new orleans](#)
new york
[norfolk](#)
[n dakota](#)
[okla city](#)
[omaha](#)
[orange co](#)
[orlando](#)
[palm springs](#)
[pensacola](#)
[philadelphia](#)
[phoenix](#)
[pittsburgh](#)
portland
[providence](#)
[puerto rico](#)
[raleigh](#)
[redding](#)
[reno](#)
[richmond](#)
[rochester](#)
[sacramento](#)
[salt lake](#)
[san antonio](#)
[san diego](#)
[santa fe](#)

[san antonio](#)
[san diego](#)
[santa fe](#)
SF bay
[santa barb](#)
[sl obispo](#)
[savannah](#)
[seattle](#)
[s dakota](#)
[shreveport](#)
[spokane](#)
[st louis](#)
[stockton](#)
[syracuse](#)
[tallahassee](#)
[tampa bay](#)
[toledo](#)
[tucson](#)
[tulsa](#)
[ventura co](#)
wash, DC
[western mass](#)
[west palm](#)
[west virginia](#)
[wichita](#)
[wyoming](#)
canada
[calgary](#)
[edmonton](#)
[halifax](#)
[hamilton](#)
[kitchener](#)
[montreal](#)
[ottawa](#)
[quebec](#)
[saskatoon](#)
[toronto](#)
[vancouver](#)
[victoria](#)
[winnipeg](#)
americas
[buenos aires](#)
[lima](#)
[mexico city](#)
[rio de janeiro](#)
[costa rica](#)
[santiago](#)
[sao paulo](#)
[tijuana](#)
uk & ie
[belfast](#)
[birmingham](#)
[bristol](#)
[cardiff](#)
[dublin](#)
[edinburgh](#)
[glasgow](#)
[leeds](#)
[liverpool](#)
[london](#)
[manchester](#)
[oxford](#)
[newcastle](#)
africa
[cairo](#)
[cape town](#)
[jo burg](#)
europe
[amsterdam](#)
[athens](#)
[barcelona](#)
[berlin](#)
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[milan](#)
[moscow](#)
[munich](#)
[paris](#)
[prague](#)
[rome](#)

31 kb (markup only)

METHOD

Do nothing.

Strip images and styling.

METHOD

Do nothing.

Strip images and styling.

Handheld stylesheets.

METHOD

Do nothing.

Strip images and styling.

Handheld stylesheets.

Mobile-specific site/app.



MINIATURIZE OR MOBILIZE?

MINIATURIZE

Repurpose existing content



craigslist.org

craigslist: san francisco bay area classifieds for jobs, apartments, personals, for sale, services, community, and events

http://www.craigslist.org/

craigslist san francisco bay area [sfc](#) [sby](#) [eby](#) [pen](#) [nby](#)

post to classifieds
help, faq, abuse, legal

search craigslist
choose type >

event calendar (3086)
S M T W T F S
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 1
2 3 4 5 6 7 8

nonprofit boot camp
"fair" housing lawsuit
weather quake tide
Katrina Relief
best-of-craigslist
craigslist factsheet
job boards compared
craigslist movie & dvd
craigslist T-shirts
craig blog
craigslist foundation
progressive directory
subscriptions

system status
terms of use privacy

community (12348)
activities lost+found
artists musicians
childcare new+view
general politics
groups rideshare
pets volunteers
events classes

personals (61983)
strictly platonic
women seek women
women seeking men
men seeking women
men seeking men
misc romance
casual encounters
missed connections
rants and raves

discussion forums
arts housing politic
autos jobs psych
beauty kink queer
comp legal rofo
crafts loc pol sci
eco m4m selfem
educ money shop
feedbk music spirit
film night sports
fitness npo testing
fixit open transg
food outdoor transit
games over 50 travel
garden parent tv
haiku pefo w4w
health pets wed
help philos women
history poc writers

housing (33892)
apts / housing
rooms / shared
sublets / temporary
housing wanted
housing swap
vacation rentals
parking / storage
office / commercial
real estate for sale

for sale (130636)
barter auto parts
bikes baby+kids
boats cars+trucks
books cds/dvd/vhs
free clothes+acc
furniture collectibles
general computer
jewelry electronics
sporting garage sale
tickets household
tools motorcycles
wanted music instr

services (26920)
computer automotive
creative household
erotic labor/move
event skill'd trade
financial real estate
legal sm biz ads
lessons therapeutic

jobs
accounting+finance
admin / office
arch / engineering
art / media / design
biotech / science
business / mgmt
customer service
education
government
human resources
internet engineers
legal / paralegal
marketing / pr / ad
medical / health
nonprofit sector
retail / food / hosp
sales / biz dev
skilled trade / craft
software / qa / dba
systems / network
technical support
tv / film / video
web / info design
writing / editing
[ETC] [part time]

gigs (4931)
computer event
creative labor
crew writing
domestic talent
adult

resumes (7435)

albany las vegas spokane uk & ie
albuquerque lexington st louis belfast
allentown little rock stockton birmingham
anchorage los angeles syracuse bristol
ann arbor louisville tallahassee cardiff
asheville madison tampa bay dublin
atlanta maine toledo edinburgh
austin medford tucson glasgow
bakersfield memphis tula leeds
baltimore miami ventura.co liverpool
batonrouge milwaukee wash, DC london
bellingham minneapolis west mass manchester
birmingham mobile west palm oxford
boise modesto west virginia newcastle
boston montana wichita
buffalo monterey wyoming europe
burlington montgomery amsterdam
chambana nashville canada
charleston new hamp calgary barcelona
charlotte new haven edmonton berlin
chattanooga newjersey halifax brussels
chicago new orleans hamilton copenhagen
chico new york kitchener florence
cincinnati norfolk montreal frankfurt
cleveland n dakota ottawa geneva
co springs okla.city quebec madrid
columbia omaha saskatoon milan
columbus orange.co toronto moscow
dallas orlando vancouver munich
dayton palm springs victoria paris
delaware pensacola winnipeg prague
denver philadelphia americas rome
desmoines phoenix argentina stockholm
detroit pittsburgh portland lima vienna
el paso providence mexico city zurich
eugene puerto rico rio de jan
fort myers raleigh costa.rica bangalore
fresno redding santiago bangkok
gainesville reno são paulo beijing
grand rapids richmond tijuana chennai
greensboro rochester delhi
hamisburg sacramento africa hyderabad
hartford salt lake cairo honn.konn
honolulu

Done

PRIMARY USE CASES

Choose area (city)

Browse category

~~Post a listing~~

Search

Event Calendar

~~Forums~~

USE CASE HIEARCHY

1. Search Top element
2. Categories Most frequented
3. Event calendar Access to today, tomorrow
4. Choose area By zip code or city name
Assume San Francisco by default



San Francisco Bay Area

Search

JOBS

Business Management,
Software/QA/DBA, Web/
Info Design, **All...**

HOUSING

Apartments/Housing, Rooms/
Shared, Housing Wanted,
Office/Commercial, **All...**

FOR SALE

Auto Parts, Bikes, Computer,
Garage Sale, Tickets,
Wanted, **All...**

PERSONALS

Strictly Platonic, Women
Seeking Men, Men Seeking
Women, **All...**

EVENT CALENDAR

Today, Tomorrow, **All...**

Select a City

Enter your zip code or city
name:

.craigslist.org

Go

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San Francisco Bay Area

Search

JOBS

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Software/QA/DBA, Web/
Info Design, **All...**

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Apartments/Housing, Rooms/
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name:

 .craigslist.org

Go

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Search

Text or numeric

Categories

Most frequented

City

Zip or name; would offer
suggestions if not found


San Francisco Bay Area

Search

JOBS
 Business Management,
 Software/QA/DBA, Web/
 Info Design, **All...**

HOUSING
 Apartments/Housing, Rooms/
 Shared, Housing Wanted,
 Office/Commercial, **All...**


FOR SALE
 Auto Parts, Bikes, Computer,
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PERSONALS
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 Go

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San Francisco Bay Area

Search

JOBS
 Business Management,
 Software/QA/DBA, Web/
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Menu 2:46PM **Back**

HOUSING
 Apartments/Housing, Rooms/
 Shared, Housing Wanted,
 Office/Commercial, **All...**

FOR SALE
 Auto Parts, Bikes, Computer,
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PERSONALS
 Strictly Platonic, Women
 Seeking Men, Men Seeking
 Women, **All...**

EVENT CALENDAR
 Today, Tomorrow, **All...**

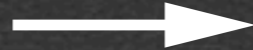
Select a City
 Enter your zip code or city
 name:
 .craigslist.org
 Go

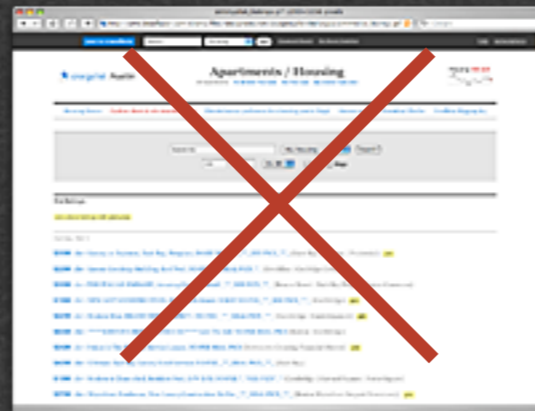
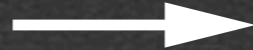
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Opera Mini

MOBILIZE

Content-, Context-, Component-specific





LBS





FORCES

SMS

Texting; SMS search

J2ME

Java-based apps, interactivity

AJAX


Javascript, XML

SVG

SVG Tiny; scalable vector graphics

LBS

Location-based services; GPS



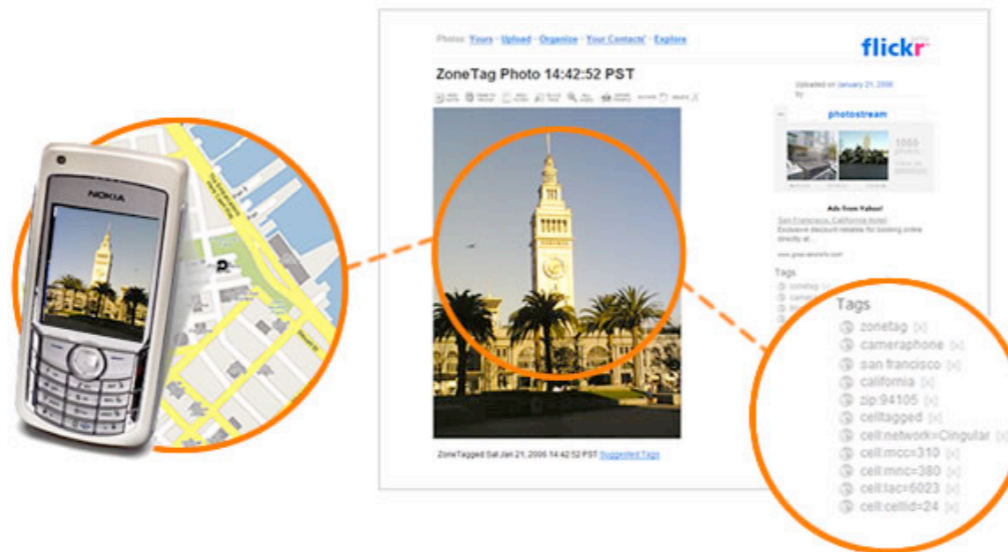
“The mobile device has the potential to act as a significant reporter of data rather than a mere consumer of data.”

—Joe Shepter, “The Pulse of Modern Design”

ZONETAG™ PHOTOS

[Install](#) [Instructions](#) [FAQ](#) [My ZoneTag](#) [About Us](#)

Take a picture — Instant upload to Flickr with location tags



[Try it now!](#)

[Explore ZoneTag](#)

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ZoneTag Highlights

Tagging made easy

ZoneTag suggests likely tags for each photo, making it easy to add tags from your phone and even easier for you to find the photos later. The suggestions are based on tags made by you and your Flickr contacts in similar context, e.g. in the same location.

Two-click upload to Flickr

Get your photos uploaded to Flickr in merely two clicks. No more searching for your photo to MMS to your friends or copying them to your computer first.

Find your photos by location

ZoneTag can automatically tag your photos with the location, based on the cell tower, in which they were taken. The location of the cell tower is not known until our user community updates the city, state, or zip code of their photos on Flickr.

Real-time privacy controls

You can specify on your phone who sees each photo you upload. You can also choose if you want location tags added to each photo.

Easy setup

Your first photo will be on Flickr in five minutes. We'll take you through our quick and easy setup step-by-step.

DEVICE DETECTION

“Sniff out” user agent strings for individual devices

USER AGENTS

Proprietary vs. Cross-platform?

Beyond mobile phones?



<http://www.tinyurl.com/l2lst>

BEST PRACTICES

...and even “standards”?

MOBILE WEB INITIATIVE

W3C chartered

Input by mobile developers, companies

Best Practices

SAMPLE GUIDELINES

Use valid markup.

Use tables only if supported by target device.

Use text equivalents for non-text elements.

<http://www.w3.org/TR/mobile-bp/>

ALSO...

mobileOK

...remember these?



<http://tinyurl.com/gzdrb>

Best Practices Checker

<http://tinyurl.com/jsrkn>



IDEOLOGY



A mobile web that is
desirable, dependable, disciplined.



An array of thought leaders.



User agent consistency.



Mobile device wiki.

...and?



QUESTIONS?



cameronmoll

cameronmoll.com

email@cameronmoll.com

801.644.8793