

Design Theory

The Vitruvian Triad

R. Scott Granneman & Jans Carton

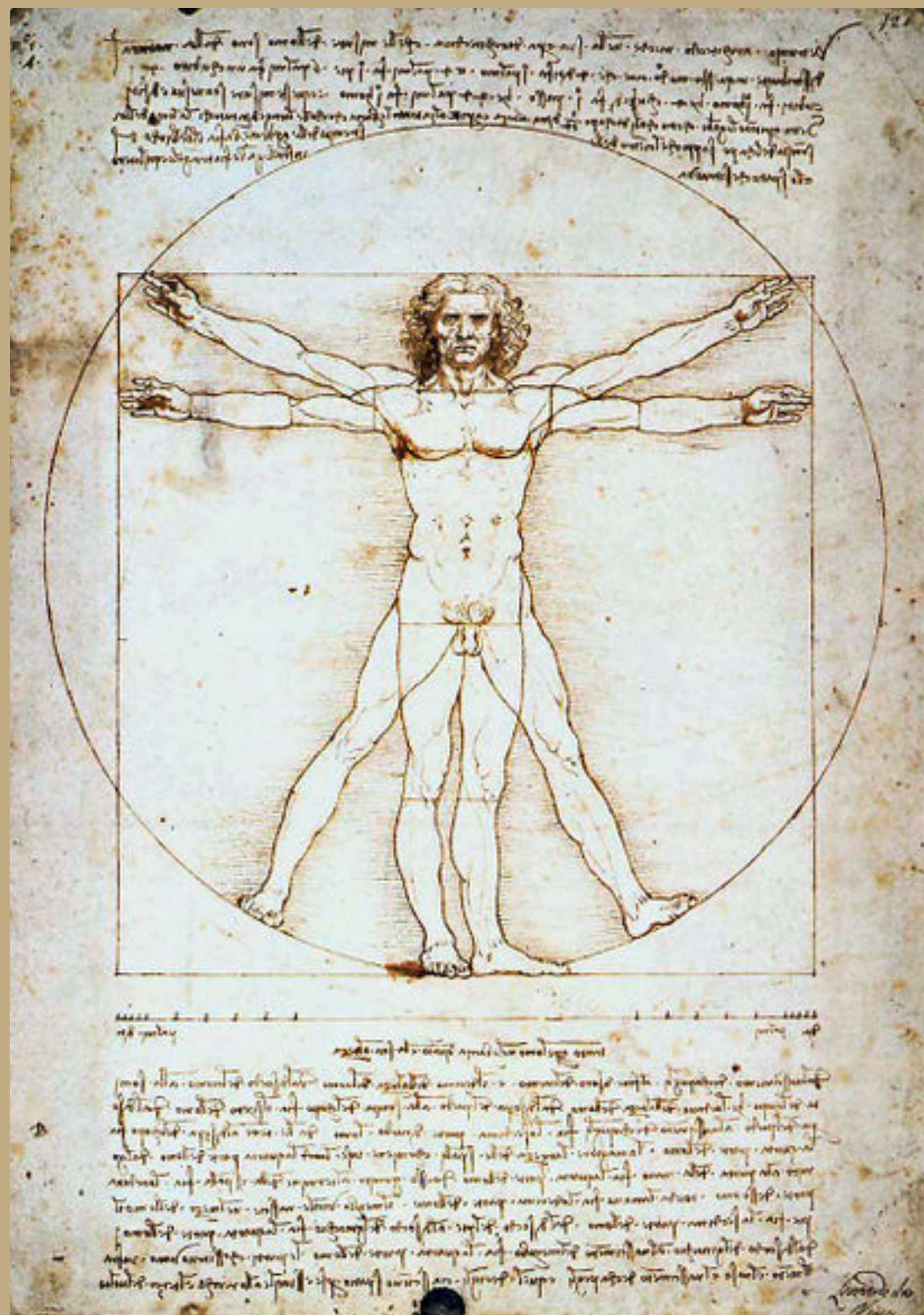
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Last updated 2022-01-18

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Notes & URLs for this presentation can be found...

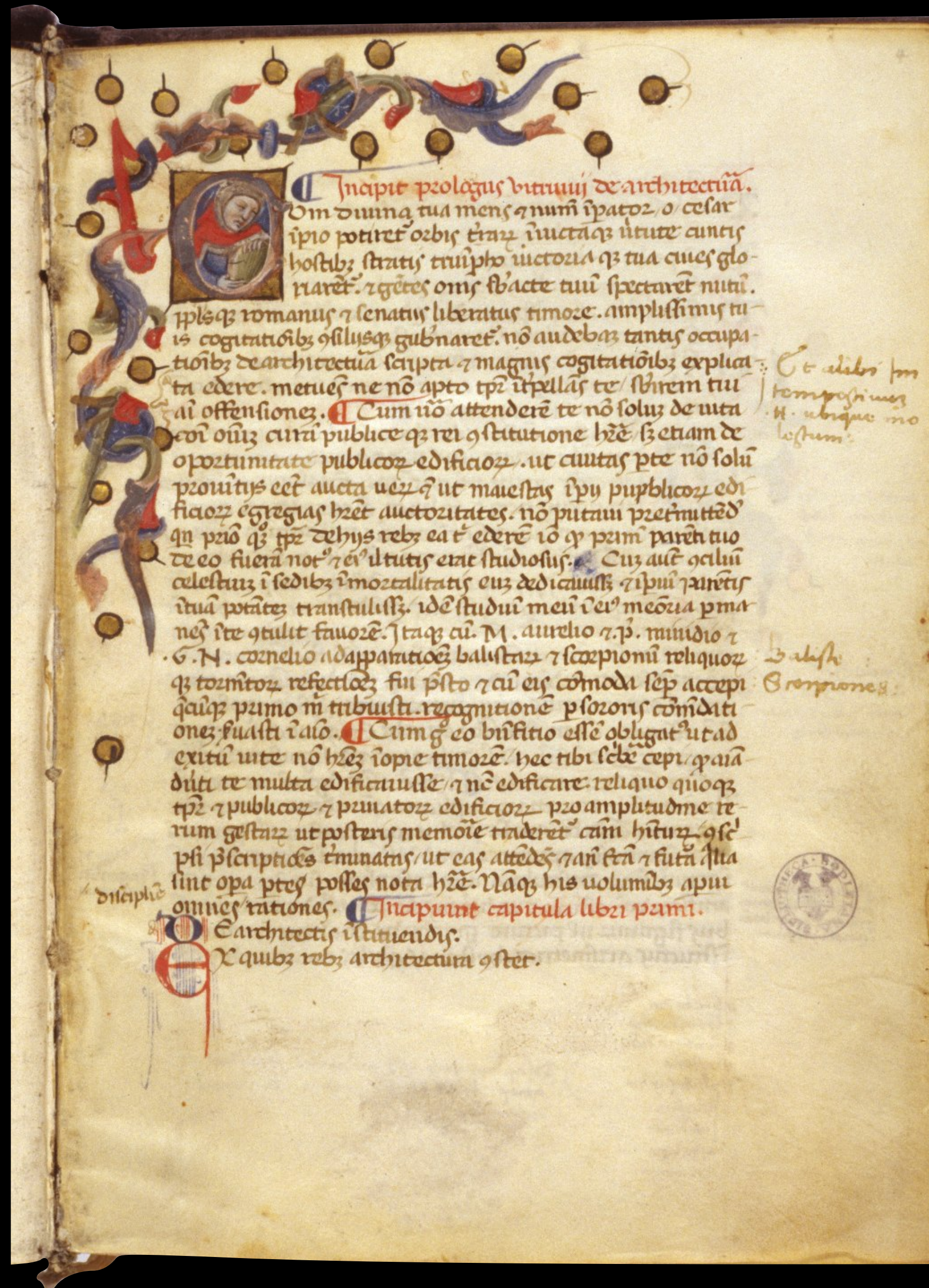
- » underneath the link to this slide show on granneman.com
- » at granneman.com/downloads/web-dev/Design-Theory-The-Vitruvian-Triad.txt

How do you judge the quality of a website?



Vitruvius (c. 80 BCE–c. 15 BCE)

De Architectura (The Ten Books of Architecture)



M. VITRUVII POLLIONIS
DE ARCHITECTURA

LIBRI DECIM,

CVM COMMENTARIIS
DANIELIS BARBARI,
ELECTI PATRIARCHAE
AQUILEIENSIS:

MVLTI AEDIFICIORVM, HOROLOGIORVM,
ET MACHINARVM DESCRIPTIONIBVS,
& figuris, unà cum indicibus copiosis, auctis & illustratis.



CVM PRIVILEGIIS.



VENETIIS,

Apud Franciscum Franciscum Senensem, & Ioan. Crugher Germanum.

M. D. LXVII.

Presented to Augustus

Survived thanks to
Charlemagne's
scriptorium, c. 900s

Rediscovered in 1414 &
printed in 1486

Firmitas, Utilitas, & Venustas

Firmness, Commodity, & Delight (Henry Wotton, 1624)

Strength, Utility, & Aesthetic Effect

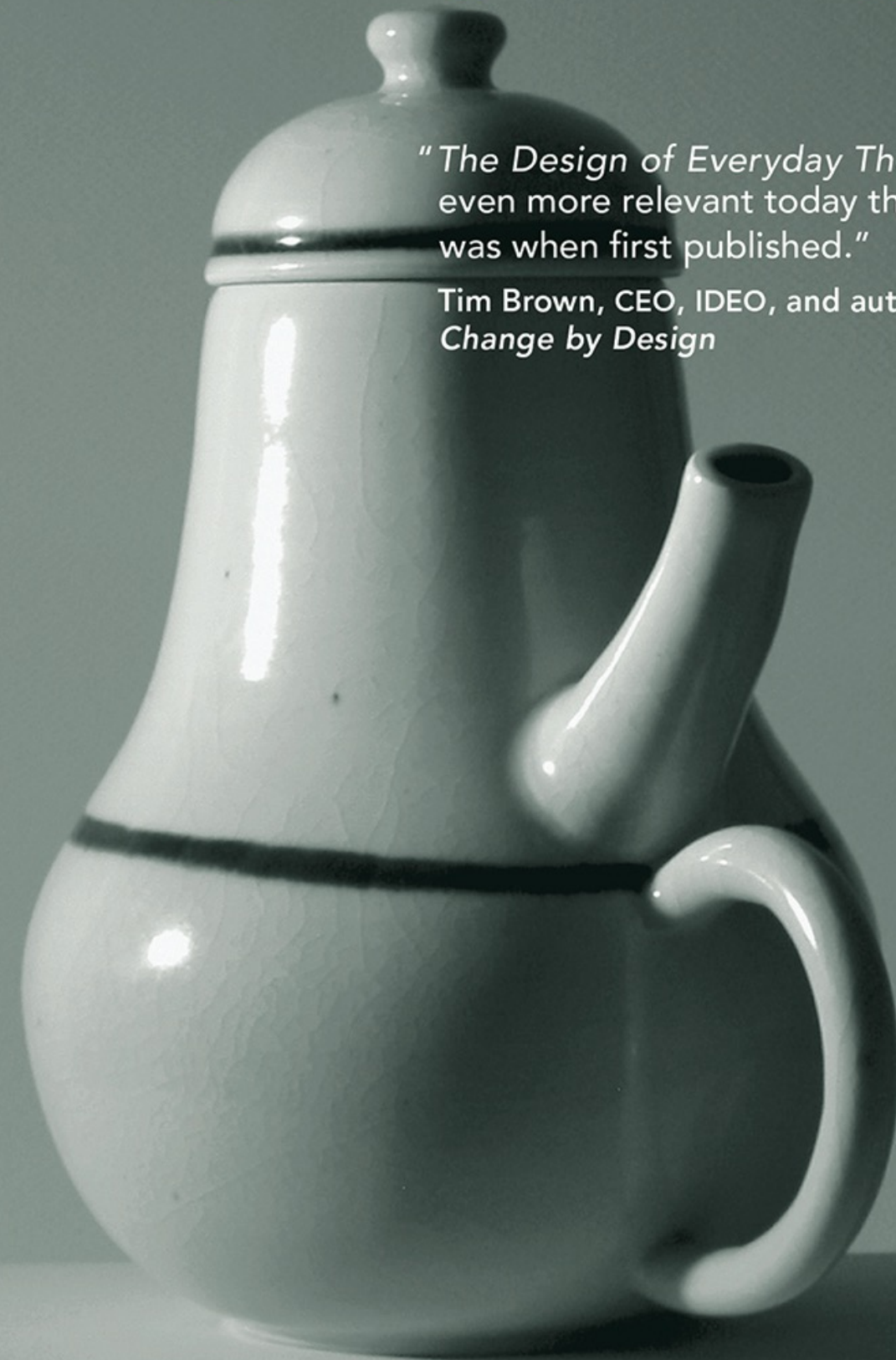
Sturdy, Useful, & Beautiful

“We require from buildings two kinds of goodness: first, the doing their practical duty well: then that they be graceful and pleasing in doing it.” —John Ruskin



REVISED AND EXPANDED EDITION

The Design of Everyday Things



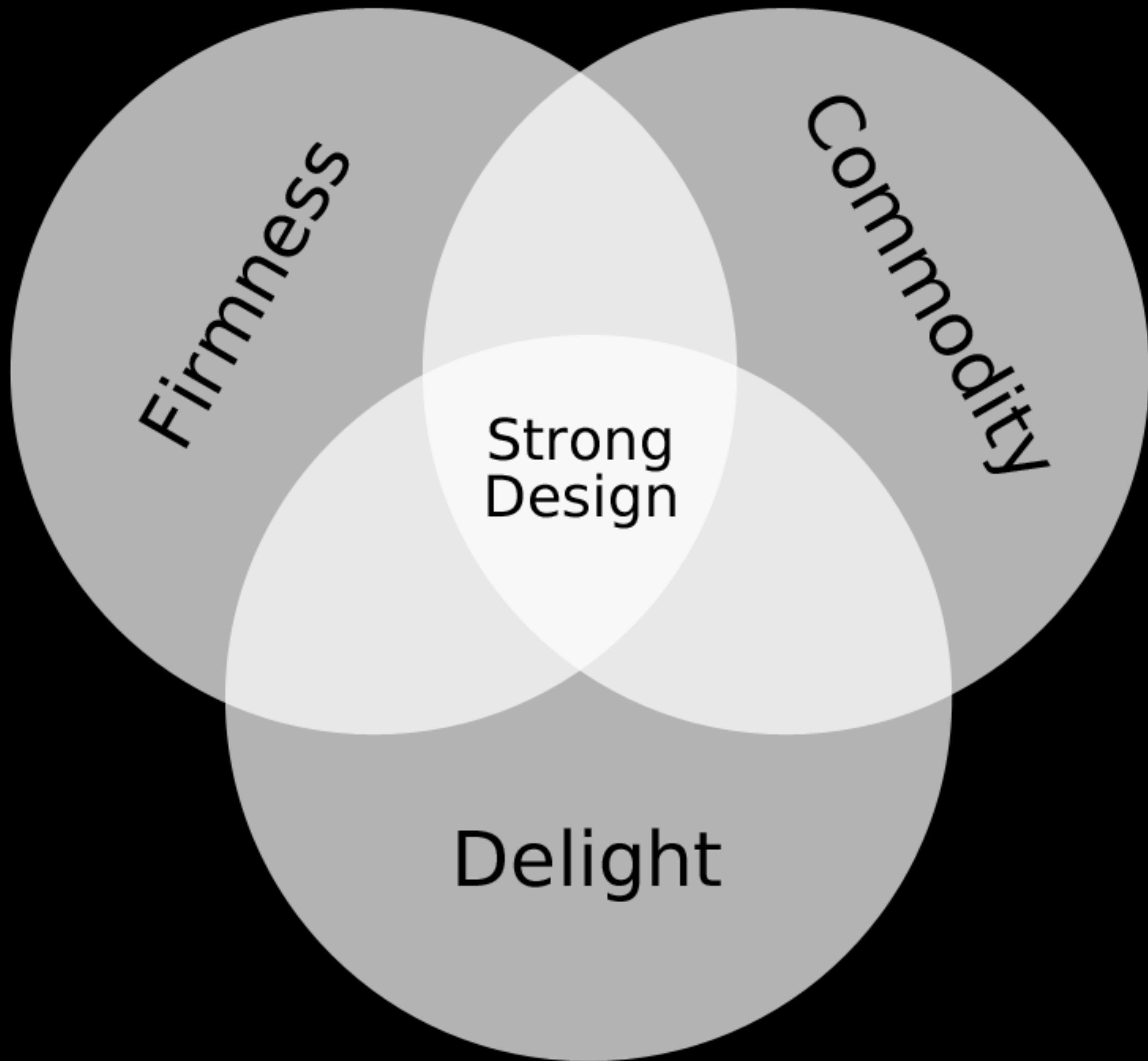
"The Design of Everyday Things is even more relevant today than it was when first published."

Tim Brown, CEO, IDEO, and author of *Change by Design*

Donald A. Norman

Architecture?

Yes — website design is
industrial design



Firmness

Stability: Is the site responding & available?

Security: Can approved people & programs access the site?

Compatibility: Does the site work across multiple systems & devices?

Accessibility: Can everyone & everything access the site's content who needs to?

Stability

Uptime %	Nines	Allowable Downtime Per Month
99.9999	6	0.043 minutes
99.999	5	0.43 minutes
99.99	4	4.3 minutes
99.9	3	43 minutes
99	2	7.2 hours

Hardware

- » Network
- » Storage
- » Power
- » Server

Software

- » Operating system
- » Web server
- » Middleware
- » Database
- » Scripts
- » Display Code (HTML & CSS)


```
$ gaw
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.15.13-x86_64-linode106 x86_64)
```

[illegible]

Seriously, this server is the property of WebSanity, LLC.
Unauthorized access will be prosecuted.

```
Last login: Wed May 9 00:25:51 2018 from 24-241-73-230.dhcp.stls.mo.charter.com
```

```
root@gawain:~# uptime
12:19:00 up 4 days, 14:05,  1 user,  load average: 0.19, 0.16, 0.17
```

```
root@gawain:~#
```


The world's leading **uptime monitoring** service.

Get **50 monitors** with 5-minute checks **totally FREE**.

Start monitoring in 30 seconds

Currently, we keep an eye on **6,000,000** monitors for more than **1,500,000** users and companies.





E-mail



SMS



Voice call



Twitter



Slack



Zapier



PagerDuty



Splunk On-Call



Telegram



Webhooks



Discord



Pushbullet



Email to SMS



Microsoft Teams



Google Chat



Pushover

Free plan.

No credit card required



5-min. checks

50 monitors

Register for FREE

👎 No SMS or voice call alerts ⓘ

👎 1 Status page ⓘ

HTTP(S) monitoring (w/o SSL errors)



Response time monitoring ⓘ

Ping monitoring ⓘ

PRO plan.

\$ ~~15~~ 7⁰⁰ / mo

Special entry offer!



1-min. checks

50 monitors



Subscribe now

✓ All features from FREE plan ⓘ

✓ 20 SMS or voice call alerts ⓘ

✓ SSL cert. expiry & errors ⓘ

✓ Cron (heartbeat) monitoring ⓘ

Advanced notification options ⓘ

Unlimited no. of Status pages ⓘ

Enterprise.



Need custom number of monitors
or a specific check interval?
Contact us for a special offer.

Chat with us

✓ All features from PRO plan

✓ High priority support ⓘ

Custom number of monitors

Custom number of SMS alerts

Can I buy extra SMS and voice calls (for the free plan)?

Yes, you can buy Pro SMS (or voice calls) for both Pro and Free Plan in your [Account Profile](#) under [My Settings](#). Just click on the blue [Want to add more?](#) button. Unfortunately, it's only possible to use PayPal at the moment.

SMS / voice call alerts prices

Amount	Price
100 messages/call	\$15.00/one-time
200 messages/calls	\$25.00/one-time
500 messages/calls	\$55.00/one-time
1000 messages/calls	\$100.00/one-time

SMS and voice calls are added to the account only once (they don't renew) and more messages/calls can be purchased anytime.

Is

granneman.com

down for everyone

or just me ?

This site checks if a website is down for everyone or just you.

For example, if you can't load or login to [Facebook](#) you can check if [Facebook is down here](#) and we will tell you if it is down when our servers check. This can be handy to know if the problem is with everyone or just something with your ISP or local area.

Are you looking for the ability to perform remote HTTP website checks with a [RESTful JSON API](#)?

Grocery

[7Eleven](#)

[Food Lion](#)

[Giant](#)

Finance

[Ally Financial](#)

[American Express](#)

[Bank of America](#)

Granneman.com Status

Is granneman.com down right now?

It's just you. [granneman.com](#) is up.

[Check another site?](#)

[Contact Us](#) | [Privacy Policy](#) | [Historical Downtime Data](#) | [API For Website Monitoring](#)

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Security

The CIA Triangle

The C.I.A. triangle

- » Confidentiality
- » Integrity
- » Availability

The C.I.A. triangle expanded

- » Confidentiality
- » Integrity
- » Availability

- » Privacy
- » Identification
- » Authentication
- » Authorization
- » Accountability



Access Control

Confidentiality

Only those with sufficient privileges may access specified information

Integrity

Ensures information is...

- » Whole
- » Complete
- » Uncorrupted

Corruption can occur during...

- » Compilation
- » Storage
- » Transmission

Availability

Information accessible to authorized users without interference or obstruction & in the required format

“Users” can be either people or computers

Privacy

Information is used only for purposes known to the data's owner

Identification

Ability to recognize individual users

Essential to establishing levels of access & authorization

Authentication

User proves their claimed identity

Security Check

Enter both words below, separated by a space.

Can't read the words below? Try different words or an audio captcha.

$$V = \frac{n^2}{-2} - 1$$

celines

Text in the box:

What's this?

Submit

Cancel

Authorization

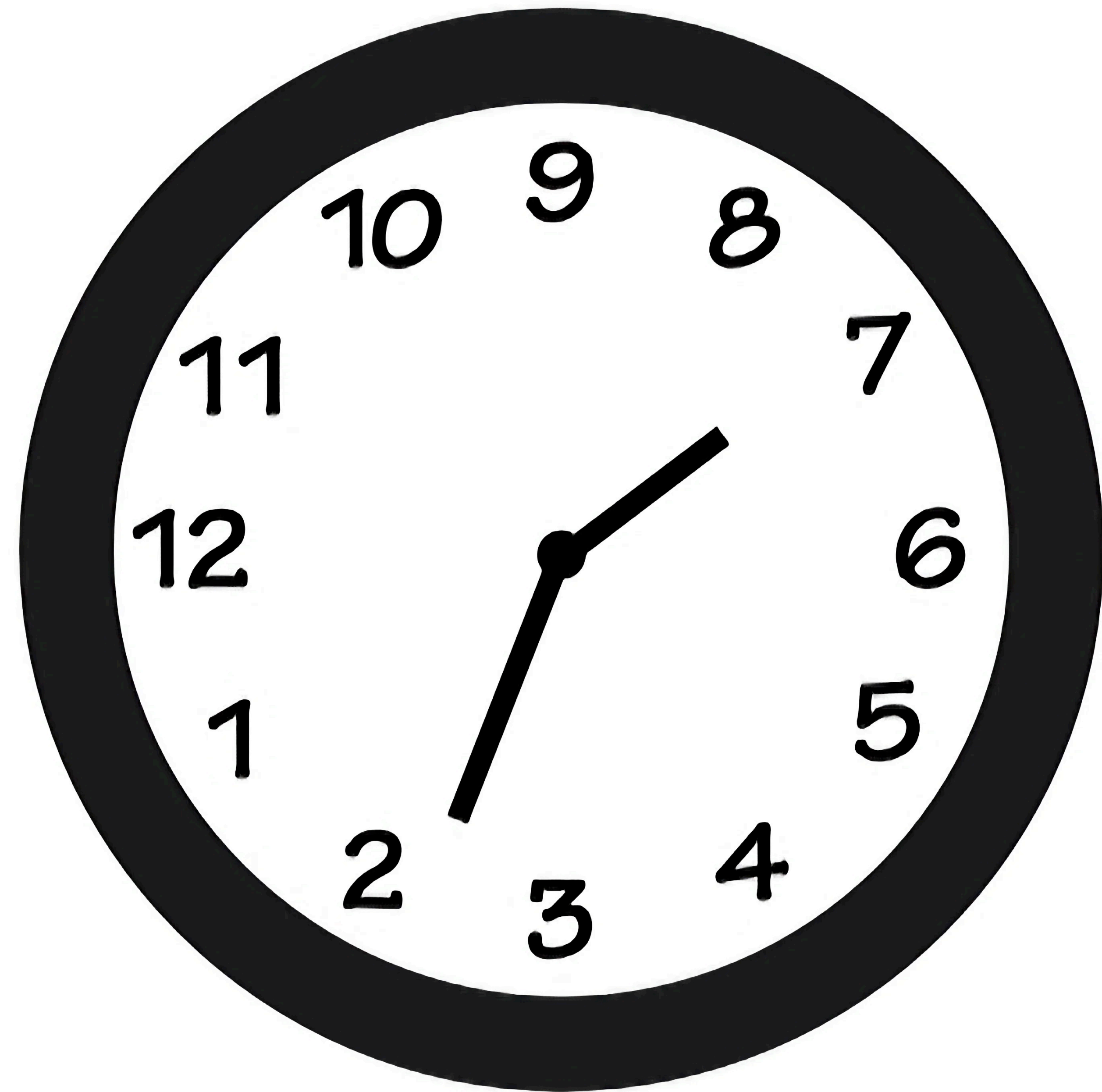
After identity is authenticated, assures that the user has been authorized by the proper authority to access, update, or delete information

Accountability

Assurance that every action can be attributed back to a named person or an automated process, often through logging

Compatibility

Standards



“The Nonstandard Clock”,
by Don Norman

“This clock is just as logical
as the standard one,
except the hands move in
the opposite direction and
‘12’ is not in its usual
place”

What time is it?

This video is unavailable.

Adobe Flash Player or QuickTime is required for video playback.
[Get the latest Flash Player](#)
[Get the latest version of QuickTime](#)



Baby Got Back - Jonathan Coulton



Enzemo

Subscribe 426

1,166,537

Add to Share More

6,829 225

Uploaded on Jan 12, 2009

I found this whilst flicking through my Jonathan Coulton albums.



Mix - Baby Got Back - Jonathan Coulton
by YouTube



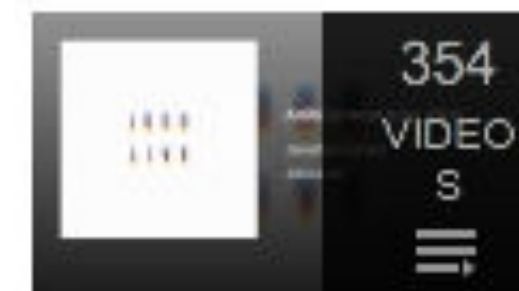
Re: Your Brains by Jonathan Coulton with lyrics HQ
by Brian Kilgore
448,284 views



Code Monkey
by idleambition
750,178 views



Ikea by Jonathan Coulton (kinetic typography)
by Peter Varadi
494,127 views



Ultimate Jonathan Coulton Playlist
by kralcigiarc



Jonathan Coulton and Felicia Day Still Alive at PAX 2008
by sepiolida
684,074 views



The Future Soon Lyrics
by arbor7
199,080 views



Jonathan Coulton - First of May



ST. LOUIS CITY MUNICIPAL COURT

Margaret J. Walsh

Administrative Judge

Catherine Ruggeri-Rea

Court Administrator

[Online Ticket Access](#)

[Home](#)

[Violation Search](#)

[Parking Tickets](#)

[Camera Violations](#)

[Court Calendar](#)

[Court Holidays](#)

[Your Rights in The
Muni Division](#)

[Unclaimed Funds](#)

[Location and Hours](#)

Welcome

to the Online Ticket Access System for the City of St. Louis.

Open on Saturdays from 9:00 AM to 1:00 PM

This site will allow citizens to view information regarding

except on City Holidays

Traffic Tickets, Non-Traffic Tickets or

(Beginning on 01/05/2008)

Promise To Pay Contracts.



*Francis G. Slay
Mayor, City of St. Louis*

Extended Business Hours

CITY COURTS IS MOVING!

Tuesday, July 21, 2009

There are no court sessions August 10th - August 14th, 2009. City Courts shall be closed Saturday, August 15, 2009. City Courts shall re-open its doors on August 17th at 1520 Market Street.

Location:

[Map and Directions](#)

1430 Olive Street
Saint Louis, MO 63103

Business Hours:

8:00 AM to 5:00 PM Monday through Friday except City Holidays.

9:00 AM to 1:00 PM Saturday except City Holidays (beginning 01/05/2008).

Code to standards, not browsers

Design for mobile first

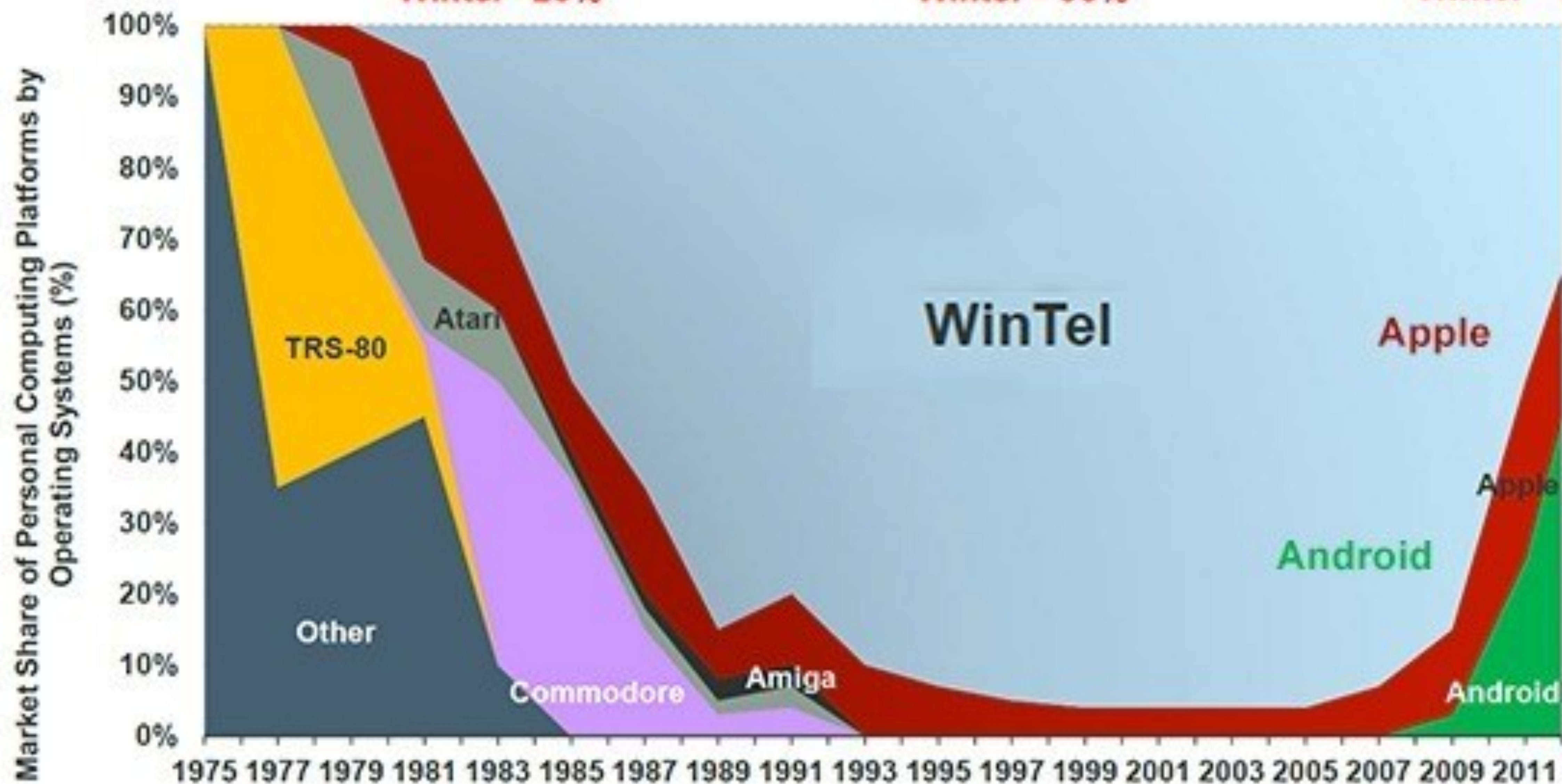
Use Responsive Web Design

Global Market Share of Personal Computing Platforms by Operating System Shipments, 1975 – 2012E

1983
WinTel - 25%

1998 – 2005
WinTel – 96%

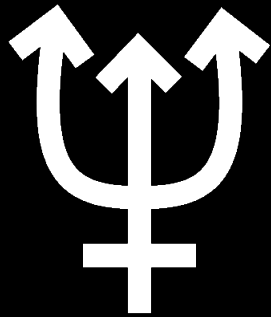








2012E
WinTel – 35%



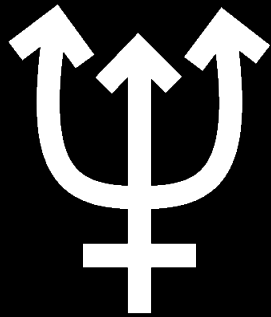







Rendering Engine (AKA Layout Engine or Web Browser Engine)

Combines HTML, CSS, JavaScript, & multimedia into formatted webpages in the viewport of a web browser (or other programs, like email)

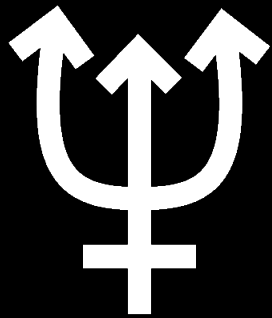








Pre-April 2013

Rendering Engine	Name	Browser
	Trident	
	Gecko	
	WebKit	 
	Presto	

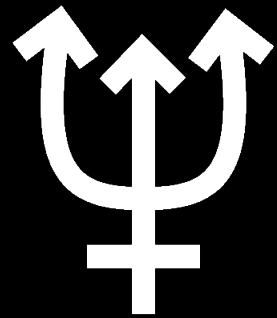









April 2013–August 2015

Rendering Engine	Name	Browser
	Trident	
	Gecko	
	WebKit	
<code><blink></code>	Blink	 

August 2015–January 2020

Rendering Engine	Name	Browser
	Trident	
	EdgeHTML	
	Gecko	
	WebKit	
<code><blink></code>	Blink	 

After January 2020


Rendering Engine	Name	Browser
	Trident	
	EdgeHTML	
	Gecko	
	WebKit	
<code><blink></code>	Blink	  

On August 17, 2020, Microsoft published a blog post, “Microsoft 365 apps say farewell to Internet Explorer 11 and Windows 10 sunsets Microsoft Edge Legacy”

- » November 30, 2020: Microsoft Teams web app no longer supports IE 11
- » March 9, 2021: Edge Legacy no longer receives security updates
- » August 17, 2021: Microsoft 365 apps & services no longer supports IE 11

HTML element reference

This HTML reference lists all **HTML elements**, defined in HTML5 or in a previous specification. When enclosed within angle brackets, they form *HTML tags*: `<elementname>`. Elements are entities specifying how HTML documents should be built, and what kind of content should be placed in what part of an [HTML](#) document.

The symbol  indicates that the element has been added in HTML5. Note that other elements listed here may have been modified or extended by the HTML5 specification. Dimmed elements are non-standard, obsolete, or deprecated; they must not be used in new Web sites, and should gradually be removed from existing ones to avoid unwanted results.

The symbol  indicates that the element is defined in the [Web Components collection of specifications](#).

A

[<a>](#)
[<abbr>](#)
[<acronym>](#)
[<address>](#)
[<applet>](#)
[<area>](#)

C

 [<canvas>](#)
[<caption>](#)
[<center>](#)
[<cite>](#)
[<code>](#)
[<col>](#)
[<element>](#) 
[](#)
 [<embed>](#)

F

[<fieldset>](#)
 [<figcaption>](#)

I

[<i>](#)
[<iframe>](#)
[](#)
[<input>](#)
[<ins>](#)
[<isindex>](#)
[<meta>](#)
 [<meter>](#)

N

 [<nav>](#)
[<nobr>](#)
[<noframes>](#)

R

 [<rp>](#)
 [<rt>](#)
 [<ruby>](#)

S

[<s>](#)
[<td>](#)
[<template>](#) 
[<textarea>](#)
[<tfoot>](#)
[<th>](#)
[<thead>](#)
 [<time>](#)

CSS reference

This *CSS Reference* lists all standard [CSS](#) properties, [pseudo-classes](#) and [pseudo-elements](#), [@-rules](#), units, and selectors in alphabetic order. It allows you to quickly access detailed information for each of them. It not only lists the CSS 1 and CSS 2.1 properties, but also is a CSS3 reference that links to any [CSS3](#) property and concept standardized, or already stabilized.

See also [Mozilla CSS Extensions](#) for Gecko-specific properties prefixed with `-moz`; and [WebKit CSS Extensions](#) for WebKit-specific properties. See [Vendor-prefixed CSS Property Overview](#) by Peter Beverloo for all prefixed properties.

A	<code>counter-reset</code>	<code>:last-child</code>	<code>repeating-radial-gradient()</code>
<code>:active</code>	<code>cross-fade()</code>	<code>:last-of-type</code>	<code>:required</code>
<code>::after</code> (<code>:after</code>)	<code>cubic-bezier()</code>	<code>left</code>	<code>resize</code>
<code>align-content</code>	<code>cursor</code>	<code>:left</code>	<code><resolution></code>
<code>align-items</code>	<code>cycle()</code>	<code><length></code>	<code>rgb()</code>
<code>align-self</code>	D	<code>letter-spacing</code>	<code>rgba()</code>
<code>all</code>	<code>:default</code>	<code>linear-gradient()</code>	<code>right</code>
<code><angle></code>	<code>deg</code>	<code>:link</code>	<code>:right</code>

Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

[Get started](#)

[Download](#)

Currently v4.1.1



Validation

Validate your code & your site!



Markup Validation Service

Check the markup (HTML, XHTML, ...) of Web documents

Validate by URI

Validate by File Upload

Validate by Direct Input

Validate by URI

Validate a document online:

Address:

► [More Options](#)

Check

This validator checks the [markup validity](#) of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific content such as [RSS/Atom feeds](#) or [CSS stylesheets](#), [MobileOK content](#), or to [find broken links](#), there are [other validators and tools](#) available. As an alternative you can also try our [non-DTD-based validator](#).



[Try now the W3C Validator Suite™](#) premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.



The W3C validators are hosted on server technology donated by HP, and supported by community donations. [Donate](#) and help us build better tools for a better web.



CSS Validation Service

Check Cascading Style Sheets (CSS) and (X)HTML documents with style sheets

By URI

By file upload

By direct input

Validate by file upload

Choose the document you would like validated:

Local CSS file:

Choose File

no file selected

► [More Options](#)

Check



[Try now the W3C Validator Suite™](#) premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.



The W3C validators are developed with assistance from the Mozilla Foundation, and supported by community donations.

[Donate](#) and help us build better tools for a better web.

4627

Flattr

Note: If you want to validate your CSS style sheet embedded in an (X)HTML document, you should first [check that the \(X\)HTML you use is valid](#).



English



Unicorn - W3C's Unified Validator

Improve the quality of the Web

By URI

By File Upload

By Direct Input

Select a task

Task: General Conformance Check *Performs as many checks as possible.*

Validate by File Upload

Choose the document you would like checked

Local file: Choose File no file selected

► [Advanced options](#)

Check



Try now the [W3C Validator Suite™](#) premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.



The W3C validators rely on community support for hosting and development.
[Donate](#) and help us build better tools for a better web.

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I ♥ VALIDATOR

Testing

Touch & non-touch

Different screen sizes

1920 × 1080 (43%)

1x

Safari 11.1 — macOS — Mac



iPhone SE



iPhone 8

iPhone 8
PlusiPad mini
(7.9")iPad
(9.7")iPad Pro
(10.5")iPad Pro
(12.9")

800 × 600



1366 × 768



1920 × 1080

Scott Granneman

[Writing](#)[Presentations](#)[Teaching](#)[Web Dev](#)[Tech](#)[Personal](#)[Site Map](#)[Search](#)

Scott Granneman is an [author](#), [educator](#), & partner in a Web development company in St. Louis, Missouri. Scott has written six books, contributed to two, and penned monthly columns for SecurityFocus and *Linux Magazine*. He is an Adjunct Professor at Washington University in St. Louis & Webster University, [teaching courses](#) on technology, security, web development, & the Internet. As a Principal of [WebSanity](#), he plans, develops, and hosts websites for clients in 12 states using an open source, UNIX-based [content management system](#). He has given [presentations](#) all over the United States, and loves speaking to people.

Key Site Links

Pages you're probably looking for.

Teaching

- [Web Development Key Links](#)
- [Webster U \(Comp Sci\): Intro to Web Programming Syllabus \(8-Week\)](#)
- [Webster U \(Comp Sci\): Cascading Style Sheets](#)

Personal

- [Publications](#)
- [Summer Vacation 2007: The Plains](#)

Contact

Email scott@granneman.com

Voice [314-780-0489](tel:314-780-0489)

Address 39 Summit Place
St. Louis, MO 63119

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1112 × 834 (56%)

2x ↕

Safari — iOS 11.0 — iPad ↕ ⚠



iPhone SE



iPhone 8

iPhone 8
PlusiPad mini
(7.9")iPad
(9.7")iPad Pro
(10.5")iPad Pro
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Personal

- [Publications](#)
- [Summer Vacation 2007: The Plains](#)

834 × 1112 (42%)

2x ↕

Safari — iOS 11.0 — iPad ↕ ⚠



iPhone SE



iPhone 8

iPhone 8
PlusiPad mini
(7.9")iPad
(9.7")iPad Pro
(10.5")iPad Pro
(12.9")

800 × 600



1366 × 768



1920 × 1080

Scott Granneman



Home



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Personal

- [Publications](#)
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Contact

Email scott@granneman.com

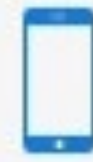
375 × 667 (70%)

2x

Safari — iOS 11.0 — iPhone



iPhone SE



iPhone 8



iPhone 8
Plus



iPad mini
(7.9")



iPad
(9.7")



iPad Pro
(10.5")



iPad Pro
(12.9")



800 × 600



1366 × 768

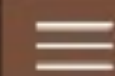


1920 × 1080

Scott Granneman



Home



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667 × 375 (100%)

2x

Safari — iOS 11.0 — iPhone



iPhone SE



iPhone 8



iPhone 8
Plus



iPad mini
(7.9")



iPad
(9.7")



iPad Pro
(10.5")



iPad Pro
(12.9")



800 × 600



1366 × 768

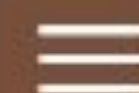


1920 × 1080

Scott Granneman



Home

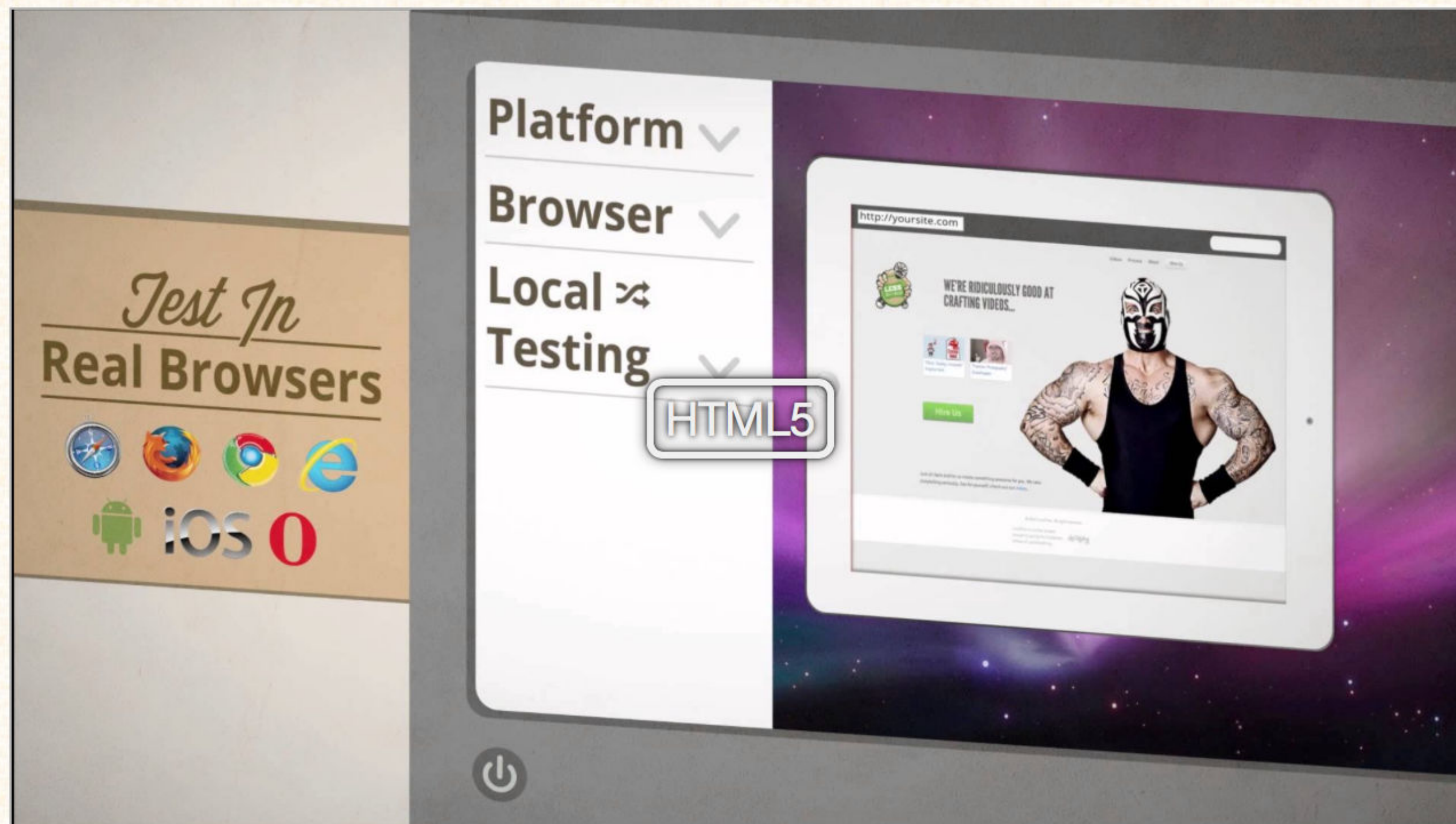


Scott Granneman is an [author](#), [educator](#), & partner in a Web

Live, Web-Based Browser Testing

Instant access to all desktop and mobile browsers.

Say goodbye to your setup of virtual machines and devices.




Free Trial

No credit card required. We promise.

 Full Name

 Email

 Password

Sign up for free

Get Instant access to 700+ desktop and mobile browsers on different Windows, Mac & mobile OS flavors.

[View our full feature overview](#) 

Accessibility

Educational Information

Edu Institution:

Washington University in St. L

Enter the name of the educational institution with which you are affiliated.

Location:

St. Louis, MO

Tell us where the institute is located: city and state, or the equivalent if your institution is not based in the U.S.

Type of institution:

University

Examples: High School, University, Community College.

Student/Faculty ID:

Enter your student or faculty ID number. If your ID is sensitive (SSN, etc.), enter the last five digits.

Affiliation:

Adjunct Professor

Examples: Student, Graduate Student, Professor.

Web Site:

http://wustl.edu

Light gray?

All people are disabled at some point

You have groceries in your hand & you're trying to open a door

You are outside & the sun is too bright to read a screen

Fonts are too small to read on a website

You can't clearly understand what someone is saying in a movie

On the Web, accessibility is for all people *and* for programs

Separation of Concerns

Divide computer program into separate concerns, each focusing on a specific resource

Meaning: HTML

Presentation: CSS

Behavior: JavaScript

Structure vs. Presentation

Use style sheets to control layout & presentation

Use header elements to convey document structure

Mark up lists & list items properly

Use markup rather than images to convey information

Avoid frames

Text Equivalents

Images

Image map regions

Animations & movies

Audio

Provide alternative page when primary page cannot be made accessible

Navigation

- » Consistency
- » Set tab order
- » Avoid frames

Comprehension

Use clear & simple language

Place distinguishing information at the beginning of headings, paragraphs, & lists

Supplement text with graphic or auditory materials

Content negotiation

- » Language selection
- » Alternative devices

Commodity

Usefulness: *Is my website useful?*

Usability: *Does my website do what it is designed to do, & do it well?*

Maintainability: *How easy is it to use and maintain?*

Usefulness

Information & features must be valuable to users

Users must be able to perform the tasks that they came to the website to perform

**Willie Dixon**

Biography by Bruce Eder

[+ Follow Artist](#)

Legendary bluesman and producer helped architect the sound of Chicago blues in the 1940s & '50s.

[Read Full Biography](#)**Overview**

Biography

Discography

Songs

Credits

Awards

Related

Album Highlights

Share this page



Willie Dixon
Catalyst



Willie Dixon
I Am the Blues



Willie Dixon
The Chess Box

[See Full Discography](#)

photo credit: Marc Norberg

Stream or buy on:

[amazon](#)

Active

1940s - 1990s

Born

[July 1, 1915](#) in [Vicksburg, MS](#)

Died

[January 29, 1992](#) in [Burbank, CA](#)

Amazon beads

Jeff Atwood wrote:


“ I’ve got the best inappropriate Amazon “related item” ever.

My wife does a lot of craft projects in her spare time, so she was searching for “beads”.

In the related items, Amazon offered her a delightful set of Anal Beads.

Not new Anal Beads, either. Used Anal Beads.

14.



Anal Beads by Doc Johnson

3 Used & new from **\$8.50**

★★★★★

Everything Else: [See all 1,645 items](#)

Proof that you can indeed take bargain shopping (way) too far.

Tasks people commonly perform on websites

- » Get information
- » Take action
- » Collaborate
- » Entertainment



The Web is an active medium

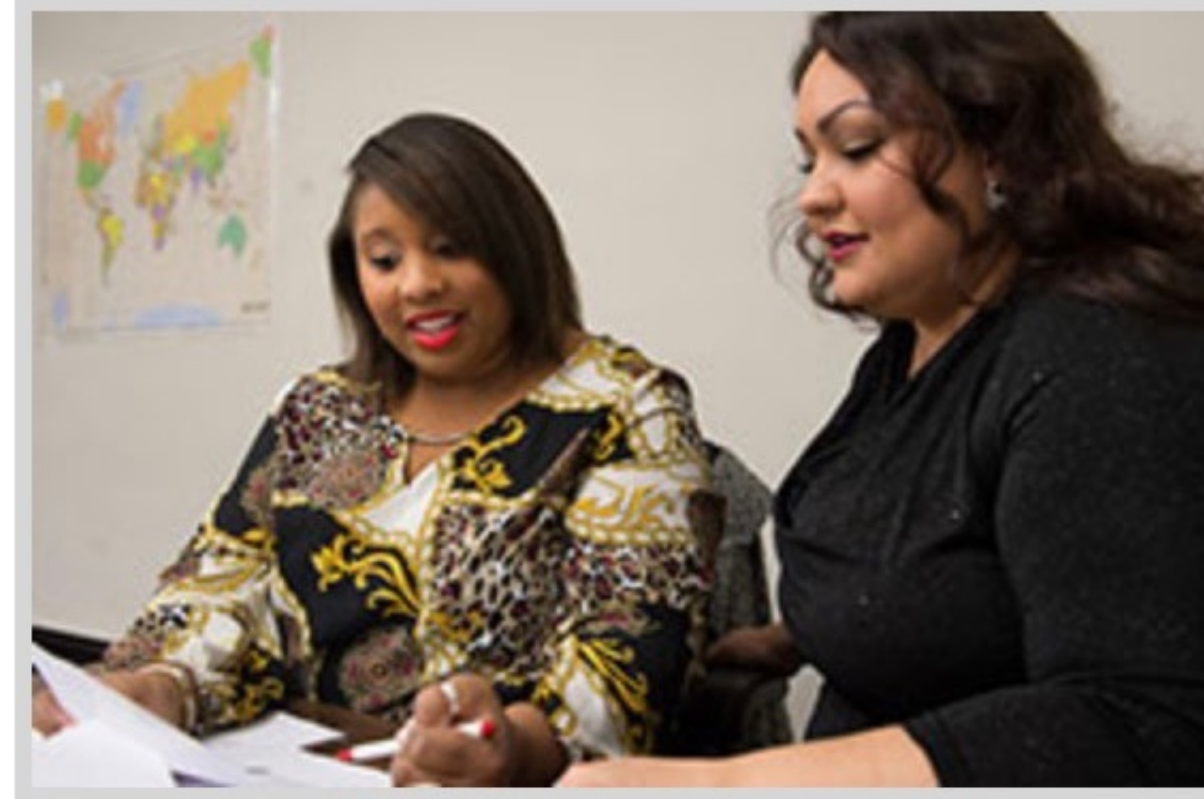
Know your visitor's goals & tasks



Affordable Education

We strive to keep tuition affordable, so a quality education is always within reach. Get one-on-one assistance with one of our financial aid advisors.

[Financial Aid & Scholarships »](#)



Convenient. Ready.

Webster does more than offer evening classes – we excel at them. Intriguing programs are tailored to meet your schedule and fit your busy lifestyle.

[Graduate Degrees & Certificates »](#)



Our Voice

Our faculty cannot be defined strictly by academic interests. While they bring impressive academic excellence, the way they connect with students goes far beyond that.

[Faculty Voices »](#)

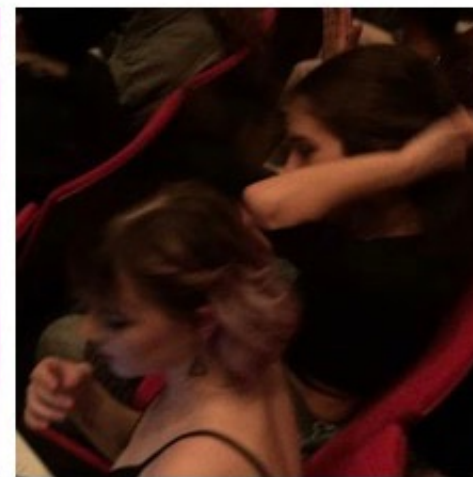
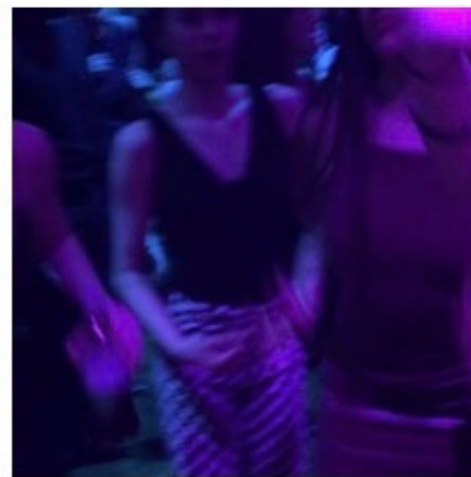


Building a Stronger Webster



Instagram

Pics from a different #WebsterU student each week @MyWebsterU



WEBSTER UNIVERSITY

470 East Lockwood Avenue
St. Louis, Missouri 63119
United States of America
(800) 981-9801

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University flag at half-staff: [Gerry Rohde](#)

for PROSPECTIVE
STUDENTS

for CURRENT
STUDENTS

for PARENTS &
FAMILIES

for FACULTY &
STAFF

for ALUMNI &
FRIENDS



We are Washington University in St. Louis.

We are a community where you can be an individual and achieve exceptional things. We are committed to learning and exploration, to discovery and impact.



*Experience the
research, scholarship
and creativity that
drive us every day.*

EXPLORE THE SOURCE



Washington University in St. Louis | One Brookings Drive, St. Louis, MO 63130

Danforth Campus: 314-935-5000 | Medical Campus: 314-362-5000



OUR SCHOOLS

Arts & Sciences

Brown School

Olin Business School

Sam Fox School of Design & Visual Arts

School of Engineering & Applied Science

School of Law

School of Medicine

OUR PEOPLE

Prospective Students

Current Students

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Campus Stores

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The Source

WUPD (Police)

Emergency Information



LEADING *Together* The Campaign for Washington University

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Alumni &
Development

ALUMNI

PARENTS

FRIENDS

STUDENTS

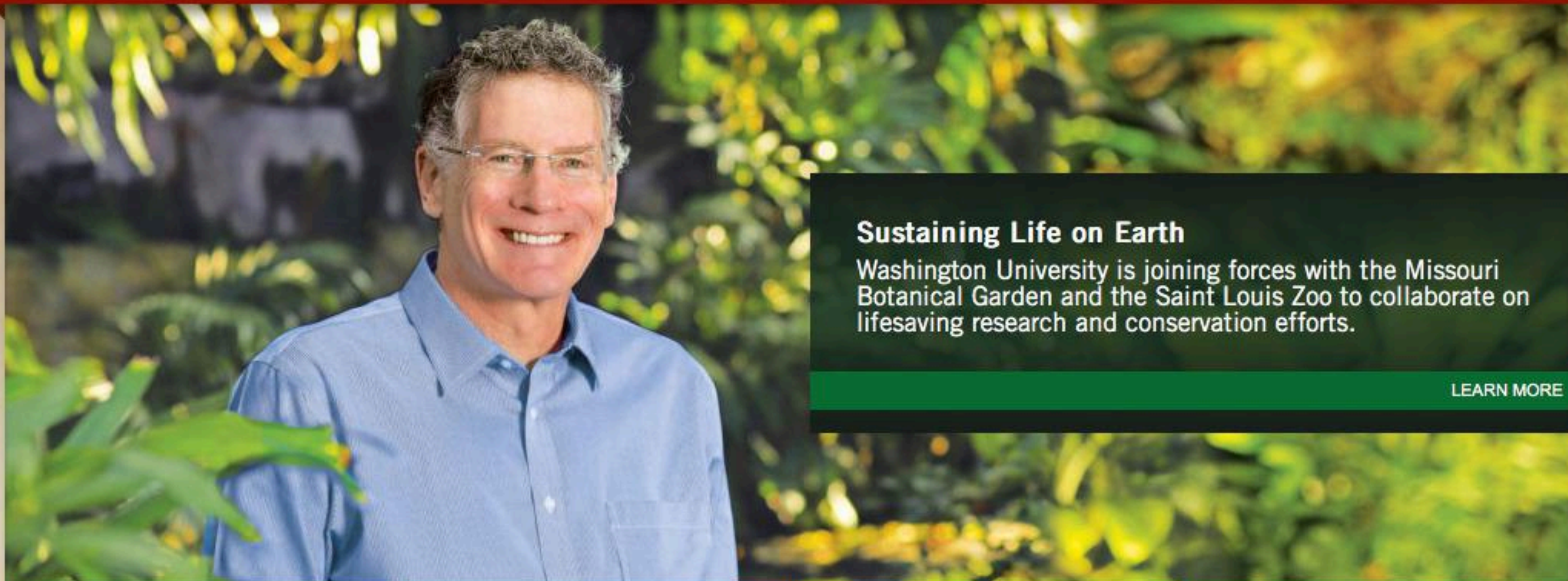
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Sustaining Life on Earth

Washington University is joining forces with the Missouri Botanical Garden and the Saint Louis Zoo to collaborate on lifesaving research and conservation efforts.

[LEARN MORE](#)

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[Giving Spotlight](#)

[On Campus](#)

[Service to Society](#)

Usability

Enable Disable:

☐ Disable

☒ Enable

Cancel



Are you sure you want to cancel this action? Click 'OK' to cancel the current action or 'Cancel' to continue.

OK

Cancel

Usability is a quality attribute that assesses how easy user interfaces are to use

“If something is usable — whether it’s a Web site, a remote control, or a revolving door — it means that [a] person of average (or even below average) ability and experience can figure out how to use the thing to accomplish something without it being more trouble than it’s worth.”



“If something is usable — whether it’s a Web site, a remote control, or a revolving door — it means that [a] person of average (or even below average) ability and experience can figure out how to use the thing to accomplish something without it being more trouble than it’s worth.” —Steve Krug

Learnability

Efficiency

Memorability

Errors

Satisfaction

Learnability

How easy is it for users to accomplish basic tasks the first time they encounter the design?

6 How would you like to pay?

Please enter your payment information below. The information you enter will be transmitted using a secure connection. Required fields are indicated with ♦.

Bill Shipping Charges to: ?

Visaxxxxxxxxxxxx7833 ♦

Associate a Shipper's UPS Account ?

Use Another UPS Shipper Account ♦

UPS Account Number

V428E4 ♦

Account Name:

WebSanity ♦

Your descriptive name for this account

Country:

United States or Puerto Rico

ZIP Code

63117 ♦

Save Options for Account number:

Save As new Entry and Set As Default ♦

Don't have a UPS Account?

[Open a UPS Account](#) (You will leave the shipping screens)

7 Would you like to schedule a pickup?

☐ Schedule a [UPS On-Call Pickup](#) ? - An additional fee may apply

☒ Review Shipping details, including price, before completing this shipment

[Start Over](#)

[Next »](#)

Instructor Review Copy Request

In order to best serve your needs, please select the appropriate category below. Please note, you must be an instructor at an accredited high school, vocational career center, community college, or university and be considering this title for use in your class in order to be eligible to receive an evaluation copy.

- ☒ US College & Career Institutes
- ☐ US High School
- ☐ US Corporation/Organization
- ☐ All Other Institutions

CLOSE

[What We Do](#)[Issues](#)[Impact](#)[Take Action!](#)[**Donate**](#)[Leadership](#) | [Support Us](#) | [Blog](#)

Unsubscribe

Unsubscribe scott@granneman.com from:

☒ Everything. Permanently remove me from all lists.

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Ms. Foundation for Women
© 2014 All rights reserved.

Join the Nikon Community Now!

Email Address:

scott@granneman.com

Please carefully check your email address entry.

To ensure your email filter does not block messages from us, add our 'From' address (nikon@nikon.net) to your Address Book.

ZIP Code:

63112

☐ Yes ☒ No Send me education based messages that will help me get the most out of my photography and sport optic equipment including helpful tips and lessons, inspirational articles and other related educational messages.

☐ Yes ☒ No Send me the Nikon corporate newsletter that will keep me up to date on all the latest company news including newly released products, rebates and other relevant company information.

☐ Yes ☒ No Send me special offers from Nikon marketing partners. Please note that these messages will come from Nikon, and at no point will Nikon will share or sell your contact information with these third parties.

☐ Yes ☒ No If you would prefer to **not** receive additional email messages from Nikon, please select **No**.

Submit

General

☒ Deselect this option to disable all caching functionality.

Preview Mode:

Enable

Use preview mode to test configuration scenarios.

Save changes

faq's

| select product

Select Product



[Please select a product](#)



Create a New Account

Your Details

Create one account to manage everything you do with Packt, from your shopping preferences to your collection activity.

Email Address *

scott@granneman.com

First Name *

Scott

Last Name *

Granneman

Tech Preferences

Web Design ✕ Bootstrap ✕ Git ✕

Password *

Infinispan

MongoDB

Neo4j

PostgreSQL

SQL Server 2014

SQL Server

Akka

AndEngine

Confirm Password *

Be the first to get our latest deals

To change your mail preferences once you have registered, visit the 'My Account' section of this site.



Free Stuff



Offers & Alerts



Deal of the Day



Video Deal of the Week



Terms & Conditions

By clicking REGISTER, you are agreeing to our [Policy](#) and [Terms & Conditions](#)

A-Z is a problem?

• (314) 935-5601 • parktrans@wustl.edu

WUSTL-DANFORTH

Vehicle Editor (edit mode)

Please Enter All Available Info On Your Vehicle

* License Plate:

974XMX

* Plate State:

Missouri

VIN #:

* Required Fields

Save

Cancel

Copyright©2003, Cardinal Tracking, Inc.

NOT LISTED

BEIGE

BLACK

BLUE

BROWN

BRONZE

CHROME/STAINLESS STEEL

COPPER

CREAM/IVORY

DARK BLUE

DARK GREEN

✓ GOLD

GREEN

GRAY

LAVENDER

LIGHT BLUE

LIGHT GREEN

BURGANDY/MAROON

MULTI-COLORED

ORANGE

PURPLE

PINK

RED

ALUMINUM/SILVER

TAN

TURQUOISE

WHITE

YELLOW

A-Z is a problem?

When it comes to learnability, novelty is your enemy



J. H. LARTIGUE ☼

Jakob Nielsen's Law of the Web User Experience

“Users spend most of their time on *other* websites.”

Bexley Seabury

An Episcopal Center for Learning & Discipleship



{ Master of Divinity

{ Doctor of Ministry

{ Anglican Studies

{ Lifelong Learning

CAMPUS COMMUNITIES

Campus Communities

The Bexley Seabury Federation offers

FEDERATION NEWS

- [Living A Spirit-Filled Life: Free Online Course with the Rev. Albert Cutie](#)

FROM THE PRESIDENT

Doing Scripture through the Prayer Book

In the next several weeks, the entire Bexley

Bexley Seabury

An Episcopal Center for Learning & Discipleship



{ Master of Divinity

{ Doctor of Ministry

{ Anglican Studies

{ Lifelong Learning

CAMPUS COMMUNITIES

Campus Communities

The Bexley Seabury Federation offers

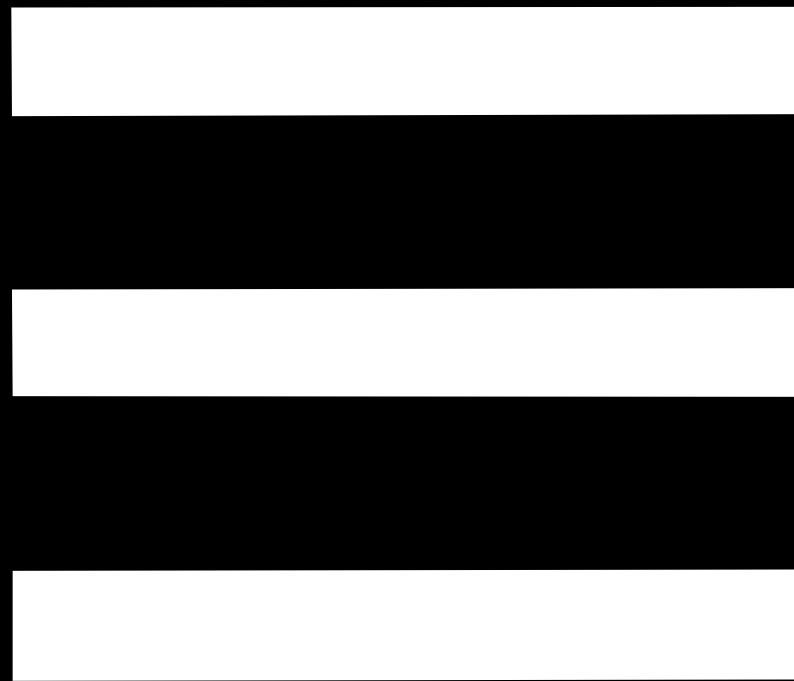
FEDERATION NEWS

- [Living A Spirit-Filled Life: Free Online Course with the Rev. Albert Cutie](#)

FROM THE PRESIDENT

Doing Scripture through the Prayer Book

In the next several weeks, the entire Bexley



MENU

MENU

MENU

Efficiency

Once users have learned the design, how quickly can they perform tasks?

Please enter your state.

OK

*** A fillable form has been detected on this page.**



Mac Apps

Accessories

Support

Enter your order information and then click *continue*.

You will be given an opportunity to confirm the information before completing your order.

Your Order: Printopia (1) [click to change order](#)

Delivery: Electronic Delivery

Amount: \$9.95

Your Name: Scott Granneman

Address: 1610 S. Big Bend Blvd.

City: St. Louis

State/Province:

Postal Code:

Country: United States

Phone:

Your Email Address: scott@granneman.com

Email Address Again:	scott@granneman.com
----------------------	---------------------

Credit Card Number:

VISA / MasterCard / Discover /
American Express / Diner's Club

Card Code: 155

Expiration Date:


- Required Information

Continue



About You

Amount: \$9.95

Your Email Address:	<input type="text" value="scott@granneman.com"/>
Email Address Again:	<input type="text" value="scott@granneman.com"/>
Credit Card Number:	<input type="text" value="XXXXXXXXXXXX"/>
	VISA / MasterCard / Discover / American Express / Diner's Club
Card Code:	<input type="text" value="155"/>  What's this?
Expiration Date:	<input type="text" value="04"/> <input type="text" value="12"/> <input type="text" value="2012"/>



When the immediate purchases

Establish Profile Information

Account Information

All fields required.

Date of Birth 

02



28



✓ YYYY

1861

1862

1863

1864

1865

1866

Continue

Avoid needless animation, no matter how short

The question is, what's *needless*?

Memorability

When users return to the design after a period of not using it, how easily can they reestablish proficiency?



Billing Account Summary

Payments

[Make a Payment](#)

[View/Edit Payments](#)

[Automatic Payments](#)

Financial Information

[Set Up New Payment Method](#)

[View/Edit Payment Methods](#)

Manage Billing Accounts

[Due Date Reminder](#)

[Register Billing Account](#)

[Unregister Billing Account](#)

Help

[FAQs](#)

[Contact Billing](#)

Enter Payment Information - Verification

[Enter Payment](#) [Verify](#) [Confirm](#)

Please verify that the information below is correct. If you need to make changes, click "Edit." To proceed, click "Submit."

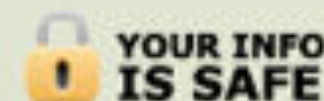
Billing Account: 007-592-614-45

Payment Amount: \$551.00

Payment Method Name: MasterCard

Payment Date: 04/05/2010

[Submit](#) [Edit](#) [Cancel](#)



Billing Account Summary

Payments

[Make a Payment](#)

[View/Edit Payments](#)

[Automatic Payments](#)

Financial Information

[Set Up New Payment Method](#)

[View/Edit Payment Methods](#)

Manage Billing Accounts

[Due Date Reminder](#)

[Register Billing Account](#)

[Unregister Billing Account](#)

Help

[FAQs](#)

[Contact Billing](#)

Enter Payment Information

[Enter Payment](#)

[Verify](#)

[Confirm](#)

To make a payment, please complete the information below and click "Next."

* indicates required information

Billing Account: 007-592-614-45

[View Bill](#) 

Statement Date: 03/25/2010

Due Date: 04/21/2010

Payment Amount:  *

☐ Minimum Due \$45.99

☒ Account Balance \$551.00

☐ Other \$

Payment Method Name: *

MasterCard

[View/Edit Payment Methods](#)

[Set Up New Payment Method](#)

Payment Date:  *

04/05/2010 

[Next](#)

[Previous](#)



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[Contact Us](#)

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Call us any time at 1-800-MYAMFAM (1-800-692-6326)

Inquiring Document: Ticket N48158283
You have a total of 1 ticket(s) on your account.

The amount of the ticket entered is: **\$20.00**

The total amount of your ticket(s) is: **\$20.00**

Please select from the following:

- ☒ I would like to pay for this ticket only.

<u>Ticket Number</u>	<u>Issue Date</u>	<u>Violation</u>	<u>Location</u>	<u>Amount</u>
N48158283	07/28/2010	STREET CLEANING	6400 ODELL	\$20.00

Total Payment: \$20.00

Submit

Back

Cancel

First name

Last name

Street address

City

State

Zip

Phone

E-mail

Age (optional)

Occupation (optional)

Gender

Marital Status

Education

Household Income

How do you usually read *The Village Voice*?

Would you like to receive a [Voice Card](#)? ☒ **Yes**

By submitting this entry, you agree to share your information with the sponsor of this giveaway.

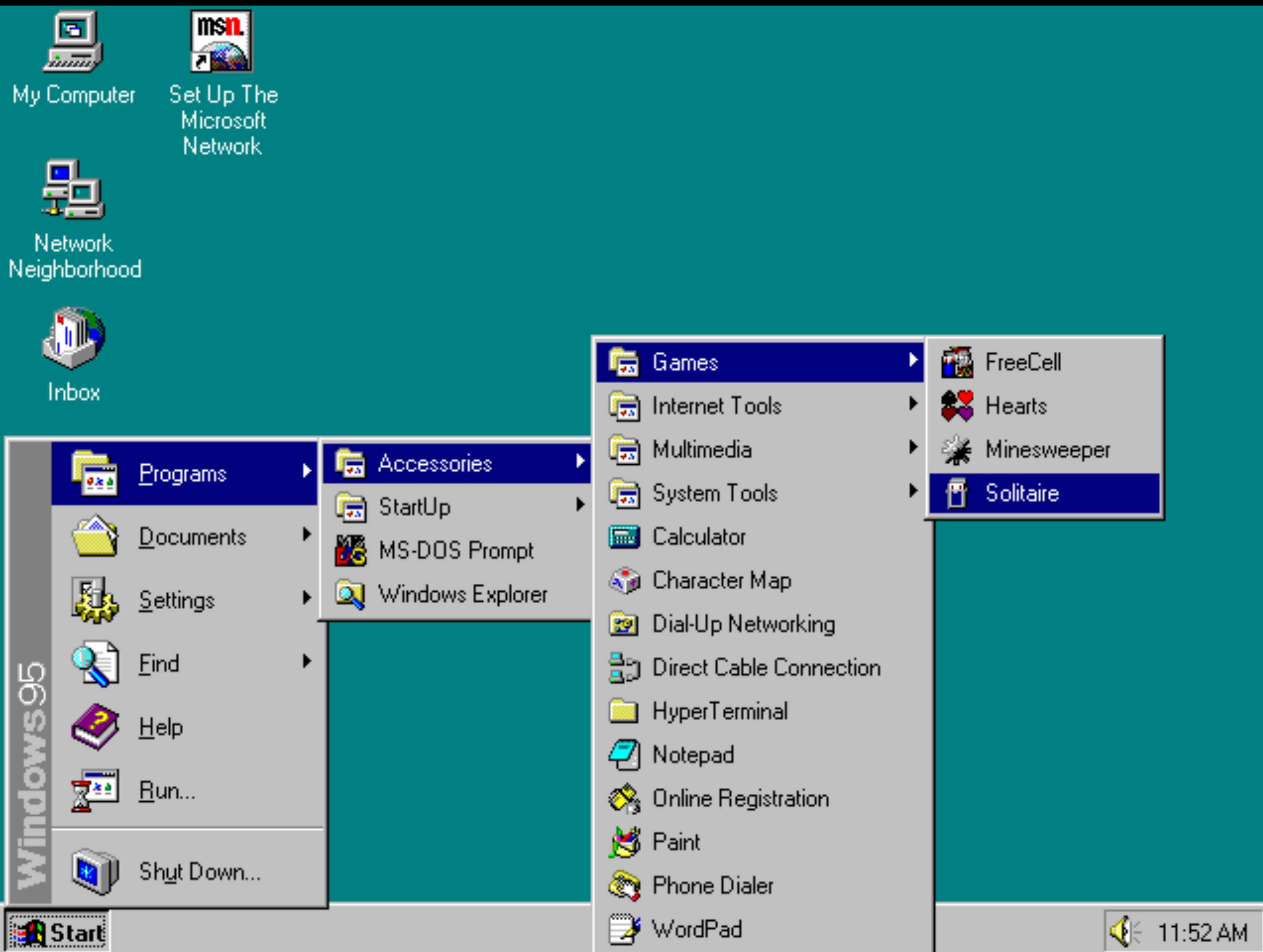
No purchase necessary. You must include your name, address, and a valid e-mail address for your entry to be accepted. Winners will be picked at random and notified via email.

Errors

How many errors do users make?

How severe are these errors?

How easily do they recover?



Warn users *before*, not after



Sign in to YouTube with your
YouTube **OR** Google Account

Username:

Password:

Please use your full Google Account
email address to sign in.

☒ Stay signed in

[Can't access your account?](#)



Search



Ask Anna!

[My account](#)

[My shopping cart](#)

[My shopping list](#)

[Visit our Mobile Site!](#)

[Join our email list](#)

[Información en español](#)

[Offers](#)

[New](#)

[Living room](#)

[Bedroom](#)

[Kitchen & Appliances](#)

[Children's IKEA](#)

[Textiles & Rugs](#)

[For Business](#)

[Departments](#)

CHANGE MY PASSWORD

Change your password. Follow the instructions below.

Fields marked with * are mandatory

1

Enter password

Password rules:

Password must contain at least 7 characters

Password must contain at least 1 digit

Password must contain at least 1 letter

Password must not be the same as username

Password can not have 3 of the same consecutive characters, nor 4 of the same characters throughout.

* Old password

* Password

* Re-enter password

2

Save my new password

[Back](#)

[Save and continue](#)



Search



Ask Anna!

[My account](#)

[My shopping cart](#)

[My shopping list](#)

[Visit our Mobile Site!](#)

[Join our email list](#)

[Información en español](#)

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[Bedroom](#)

[Kitchen & Appliances](#)

[Children's IKEA](#)

[Textiles & Rugs](#)

[For Business](#)

[Departments](#)

CHANGE MY PASSWORD

Change your password. Follow the instructions below.

Fields marked with * are mandatory

Oops! Something went wrong.

The max. length for Password is 10 characters.

The max. length for password is 20 characters.

The max. length for Password is 10 characters.

1

Enter password

Password rules:

Password must contain at least 7 characters

Password must contain at least 1 digit

Password must contain at least 1 letter

Password must not be the same as username

Password can not have 3 of the same consecutive characters, nor 4 of the same characters throughout.

* Old password

The max. length for Password is 10 characters.

* Password

The max. length for password is 20 characters.

* Re-enter password

The max. length for Password is 10 characters.

2

Save my new password

[Back](#)

[Save and continue](#)



Search



Ask Anna!

[My account](#)

[My shopping cart](#)

[My shopping list](#)

[Visit our Mobile Site!](#)

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* Old password

* Password

* Re-enter password

The max. length for Password is 10 characters.

2

Save my new password

[Back](#)

[Save and continue](#)

Video Tutorials

If you want to browse specific types of ScreenCasts, just click on the link below:

Mac

iOS

ScreenCasts**ONLINE**

Members Area

[Tutorials](#)

[Tutorials](#)

[Tutorials](#)

[New Members Info](#)

[Configuration](#)

[Members Panel](#)

[Setup iTunes Feeds](#)

[Membership Renewal](#)

[Change Password](#)

[Edit Profile](#)

[Downloads](#)

[Support](#)

[Logout](#)

Password must have less than 16 characters



Main Page

Membership Renewal Options

Your Payment History

Edit Profile

Edit Profile

First & Last Name

Scott

Granneman

Email Address

scott@granneman.com

Change Password

Leave blank to keep unchanged

Confirm Password

Leave blank to keep unchanged

Save Profile

Back

New To Zazzle

We just need a little more info to create your account...

Psst... we can't move forward 'til you fix the errors below.

Email Address: Your identification at Zazzle

scott@granneman.com

Verify Email:

scott@granneman.com

Password: Must be at least 6 characters

.....

The password you entered must be between 6 and 20 characters, please reenter.

Verify Password:

.....

Are you age 13 or older?

☒ Yes ☐ No

Make computers do the grunt work, not humans

The page at <https://www.chevrontexacocards.com> says:



You have entered an invalid date. Please enter a valid date in mm/dd/yyyy format.

OK

Payment Due Date: ? 03/23/2009

Payment Date: ?

3/11/2009



Your Email Address: ?

steve@unixwiz.net

Payment Method



Payment Type:

Visa

Name on Card:

Expiration Date: (expiration date is not required for Costco Credit Card)

Month

Year

Payment Card Number:

Card Identification Number:

[view example](#)

No dashes or spaces

☐

Set as default payment card

Enter pay statement information

Company

Social Security #
(no dashes)

Check number

NOTE-Please enter your 10-digit phone number (without dashes between numbers), including area code.

United States

Phone:*

Ext:

We recently changed our loan format to 10 digits. If you don't have your 10 digit loan number, enter your 7-digit number with three zeroes added before the first digit. For example, if your loan number is 1234567, enter 0001234567.

Loan Number (10 digits):

Words & labels should be clear



We're sorry

User not exists or is not logged in.

Resources

[View all](#)

► [Purchase Resources](#)

► [Billing Information](#)

► [Billing History](#)

► [Change Credit Card](#)

► [Assign Keys](#)

◀ [Transfer Resources](#)

Transfer Licenses/Storage

Source user group: (default user group) (0 li)

Target user group: (default user group) (0 li)

License Type	Licenses	Storage
Server	0	0 GB
Desktop	0	0 GB

[Continue](#)

► [Return Unused Resources](#)

► [Download MozyPro Client](#)



Alert <https://www.mozypro.com/>

Transferring to the same just doesn't make sense.

[OK](#)

[WebSanity](#) » [WebSanity](#)

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- [Signals](#)
- [Standardization](#)
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Organizational Units

- [IEEE Regions](#)
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IEEE History Center

- [About History Center](#)
- [About IEEE History Committee](#)
- [History Center Staff](#)
- [About IEEE Global History Network](#)

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- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)
- [Random Page](#)
- [Wikitext Formatting and Style Guide](#)

Dennard was born in Terrell, Texas, on 5 September 1932. He received his B.S. and M.S. degrees in Electrical Engineering from Southern Methodist University, Dallas, in 1954 and 1956, respectively. He earned a Ph.D. from Carnegie Institute of Technology in Pittsburgh, Pennsylvania, in 1958.

A [Fellow of the IEEE](#), Dr. Dennard has earned dozens of awards and honors including the U.S. National Medal of Technology from President Ronald Reagan for his work on the one-transistor dynamic memory cell. He was also elected to the U.S. National Academy of Engineering. Dr. Dennard received the [IEEE Cleo Brunetti Award](#), the IRI Achievement Award from the Industrial Research Institute, and Harvey Prize from Technion, Haifa, and the [IEEE Edison Medal](#) in 2001 'For the invention of the 1-transistor DRAM cell, and contributions to the development of the MOSFET device scaling principles.' He was inducted into the U.S. National Inventors Hall of Fame and is a member of the American Philosophical Society in addition to being named the 2009 recipient of the [IEEE Medal of Honor](#) "For invention of the single transistor Dynamic Random Access Memory and for developing scaling principles for integrated circuits."

Interview

FAIL (the browser should render some flash content, not this).

Category: [Components, circuits, devices & systems](#)

Subject

License question



Have you tried [this help article](#)?

Message

which holds the @font-face rule is called) the counting system counts a single pageview for each webfont within the webfont kit.”

However, nowhere on your site do you explain how this “counting system” works. JavaScript? Something else?

Thank you.

Attach screenshots (optional)

Choose File

no file selected

Add attachment

Write *sixty-four*:

sixty-four

(in digits) This is a basic anti-spam measure.

SUBMIT

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MyFonts Inc

600 Unicorn Park Drive

Woburn, MA 01801

USA

FAQs

Contact

Contact customer support

- Anti-spam number doesn't match up. Question was *sixty-four*; correct answer was 64; you said 'sixty-four'.

If you keep getting this error please email: help@myfonts.com.

Name

Scott Granneman

Email

scott@granneman.com

Order Number

M#####

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Have you tried [this help article](#)?

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Member Information

Name *

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Prefix	First	Last	Suffix

Company

Address *

Street Address

City

Connecticut

State

ZIP Code

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CSS ArchFront-End C...CSS-Tricksdesign and d...Neil Gaiman...Genuine Vul...An Artist's V...Goofy and D...Wood & Hus...Registration+

bsodell

Password

.....

Retype Password

.....

Personal Information

First Name

Betty

MI

S

Last Name

Odell

Suffix

Suffix

Date of Birth

Date of Birth

👤 ▾

Please fill in Date of Birth

Mother's maiden Name

Mother's Maiden Name

Social Security Number

SSN

Contact Information

Street

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Password

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Retype Password

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Personal Information

First Name

Betty

MI

S

Last Name

Odell

Suffix

Suffix

Date of Birth

6

👤 ▾

Date of Birth

Please enter in the format MM/DD/YYYY

Mother's maiden Name

Mother's Maiden Name

Social Security Number

SSN

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First Name

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Suffix

Suffix

Date of Birth

06/28/1935

Birth's maiden Name

Telephone

Social Security Number

.....|

SSN

Contact Information

Street

Street Address

Country

Country

City

City

Poor layouts increase errors

Admin Console

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[Search / List Partners](#)

Users

[Search / List Users](#)
[Search / List Machines](#)
[Add New User](#)

Configuration

Account Details[Edit Client Version](#)
[Client Configuration](#)
[Admin and Groups](#)**Configuration** [View all](#)▼ **Account Details****WebSanity****Name:** WebSanity ([change](#))**Username/Email:** admin@websanity.com ([change](#))**Password:** Current Password: New Password: Confirm Password: [cancel](#)**Receive Mozy Pro Newsletter?** Yes ([change](#))**Receive Mozy Email Notifications?** Yes ([change](#))**Receive Mozy Account Statements?** No ([change](#))

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☐ Yes ☒ No Send me special offers from Nikon marketing partners. Please note that these messages will come from Nikon, and at no point will Nikon will share or sell your contact information with these third parties.

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Questions/Concerns

 Ask Doctor

Messages

 Inbox

 Sent Messages

 Deleted Messages

Account Information

 Personal Information

 Additional Information

 Reset Password

Intake Forms

 Patient History Questions

 Surgical and Allergies

Review

 Current Statement

 Past Statement

 Referrals

 PHR-Complete Report

 PHR-View

 Visit Summary

Appointments

 New Appointment

 Current Appointment

 Historical Appointments

Requests

 Refill Requests

Patient History Questions

Please answer these questions:

Dermatology

bruising

☐ Yes ☒ No

rash

☐ Yes ☐ No

lumps

☐ Yes ☐ No

keloid formation

☐ Yes ☐ No

Constitutional

weight change

☐ Yes ☐ No

loss of appetite

☐ Yes ☐ No

fever

☐ Yes ☐ No

fatigue

☐ Yes ☐ No

Ophthalmology

glaucoma

☐ Yes ☐ No

glasses/contacts

☐ Yes ☐ No

disease or injury

☐ Yes ☐ No

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number
(enlarge)

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You can provide multiple numbers. Fill out the information and click the "Add Another Telephone" button for each number.

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☐

Type:

Home



Area:

Number:

Ext.:

[Add Another Telephone](#)

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◀ Return

Change Your Personal ID



The new Personal ID you entered can't be used. Please try something different. You have one attempt left to change your Personal ID.

Close

[Return to My Profile](#)

[Return to My Accounts](#)



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Status of Transcript Requests: Oct 27, 2015

Sent Date:	Oct 28, 2015
Print Date:	Oct 28, 2015
Session Identifier:	327164816 If you have questions, please include this session ID with all inquiries.
Issued to:	Jans Carton
Street:	950 Providence Ave
City:	Webster Groves
State or Province:	Missouri
Zip or Postal Code:	63119
Nation:	UNITED STATES OF AMERICA
Course Levels:	All course levels
Number of Copies Ordered:	1
Official Transcript:	No
Delivery Method:	No delivery method selected
Cost of Order:	No charge
Print Transcript:	As soon as possible

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Enable auxiliary templates

Enable auxiliary templates ☐ Yes ☒ No Change

Add New template

Add New template Add

Edit auxiliary templates

Edit auxiliary templates avCalendarPopup ▾

Set Default Delete Edit

Add, edit and delete additional templates in your site.

Enable auxiliary templates

Enable auxiliary templates ☐ Yes ☒ No Change

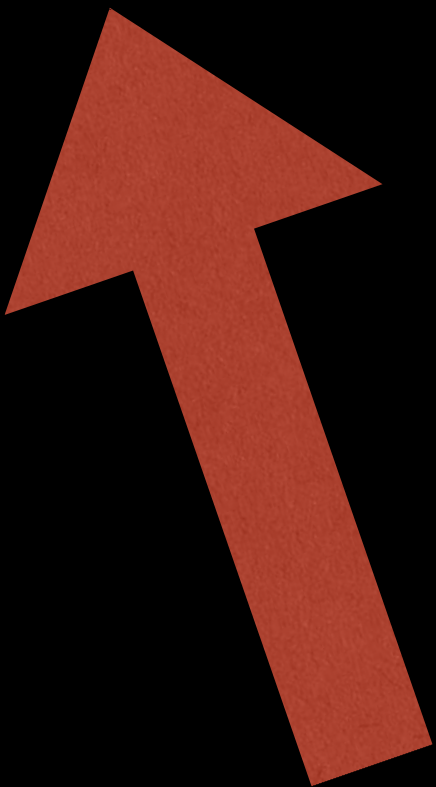
Add New template

Add New template Add

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The button of death

Satisfaction

How pleasant is it to use the design?

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E-mail Address

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☒ Home ☒ Mobile ☒ Office

Best time call:

☐ AM ☐ PM

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account information here. Use our
Secure message section of Online
Banking to send account-related
questions.

Submit

Clear All

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Video Library

Edit



Slides

Thanks, Facebook

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Animations, especially looping animations, are bad

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Massachusetts Institute of Technology
Center for Advanced Visual Studies

Check back soon for new events

The Center for Advanced Visual Studies is a community for contemporary art in the School of Architecture and Planning at the Massachusetts Institute of Technology. [More_](#)



[More_](#)



Damon Rich will moderate a panel at MIT Museum on the mortgage crisis in conjunction with Red Lines, Death Vows, Foreclosures, Risk Structures. [More_](#)

Center for Advanced Visual Studies

2008 project: John Bell, Center for Advanced Visual Studies (CAVS), John Bell, Center for Advanced Visual Studies (CAVS), John Bell, Center for Advanced Visual Studies (CAVS).

"The idea of 'engineering chance encounters' is very popular today in both architecture and urban planning -- if you somehow plan people's courses so they'll bump into each other, imaginative thoughts that would not have occurred to them otherwise can and will. One thing about university life is the siloization - like grain silos -- where everyone is so over-taxed looking after their own turf it's very hard to look across to the next silo. Universities need to build organizations that counteract the effects of siloization. And for the MIT campus, CAVS does that in a way that is efficient and wildly productive. The arts are the draw, but a very interesting cross-section of the MIT intellectual life attends those events."

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The Center for Advanced Visual Studies is a community for contemporary art in the School of Architecture and Planning at the Massachusetts Institute of Technology. [More_](#)



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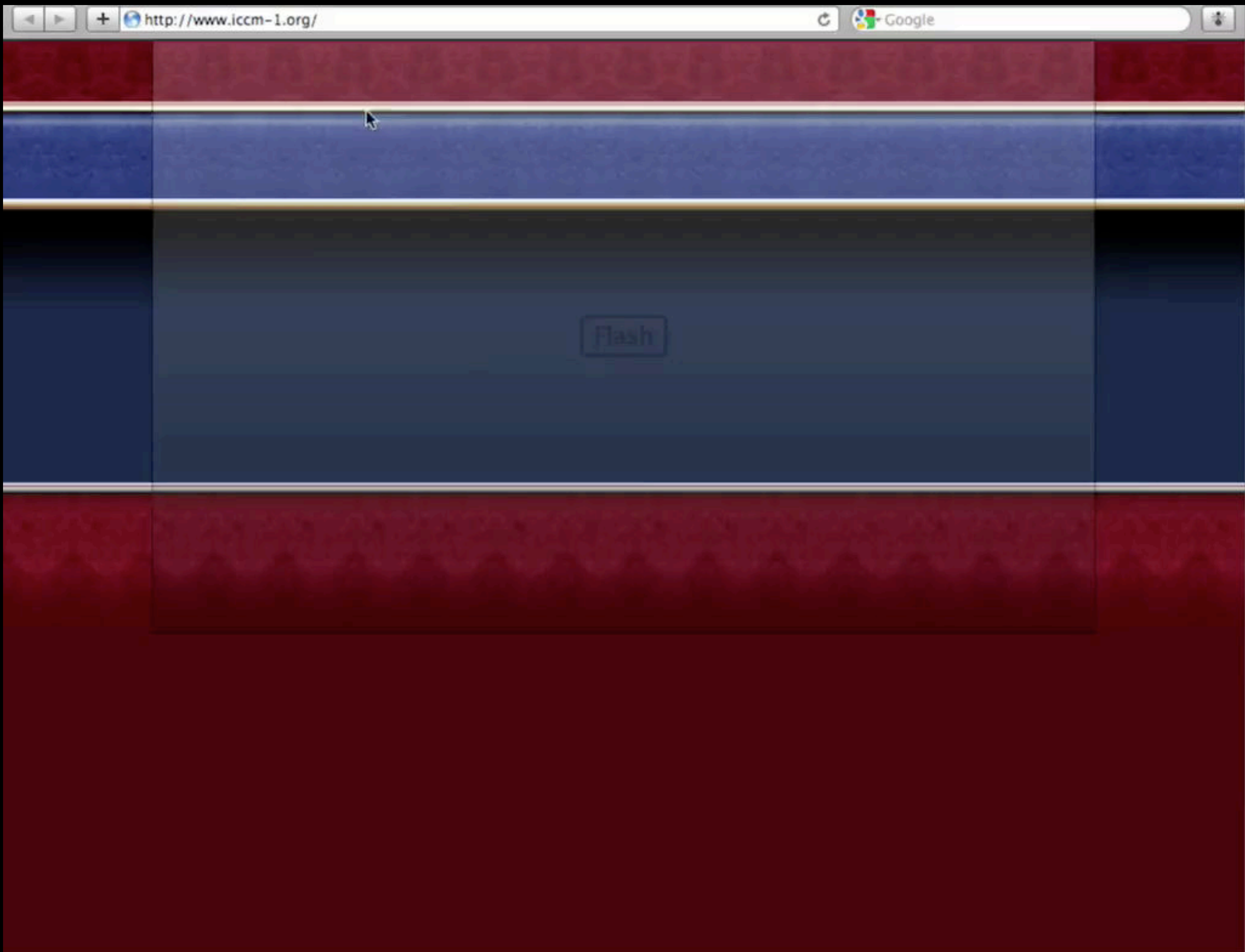


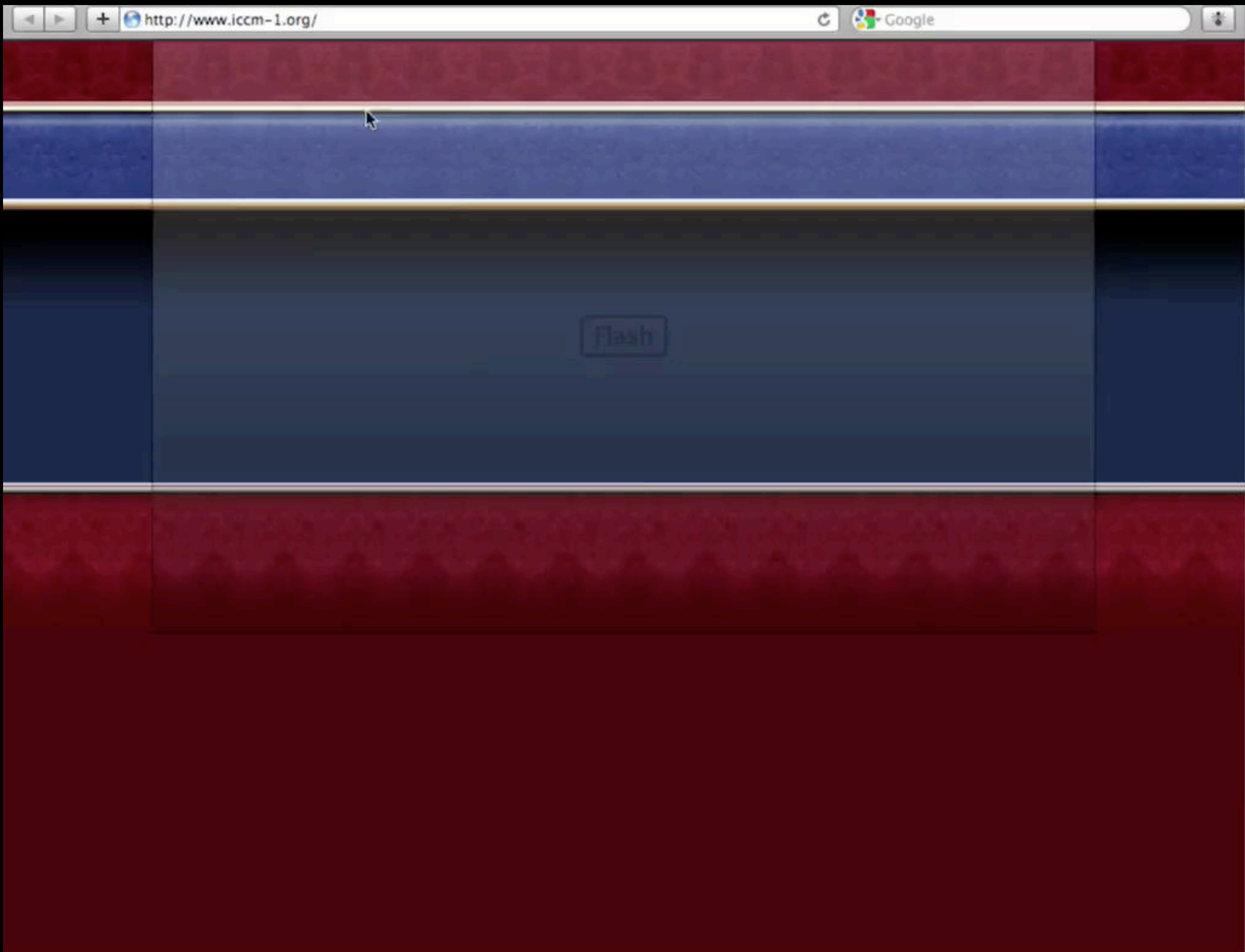
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A design that promotes usability is simple, clear, & predictable

Familiar

Obvious

Consistent

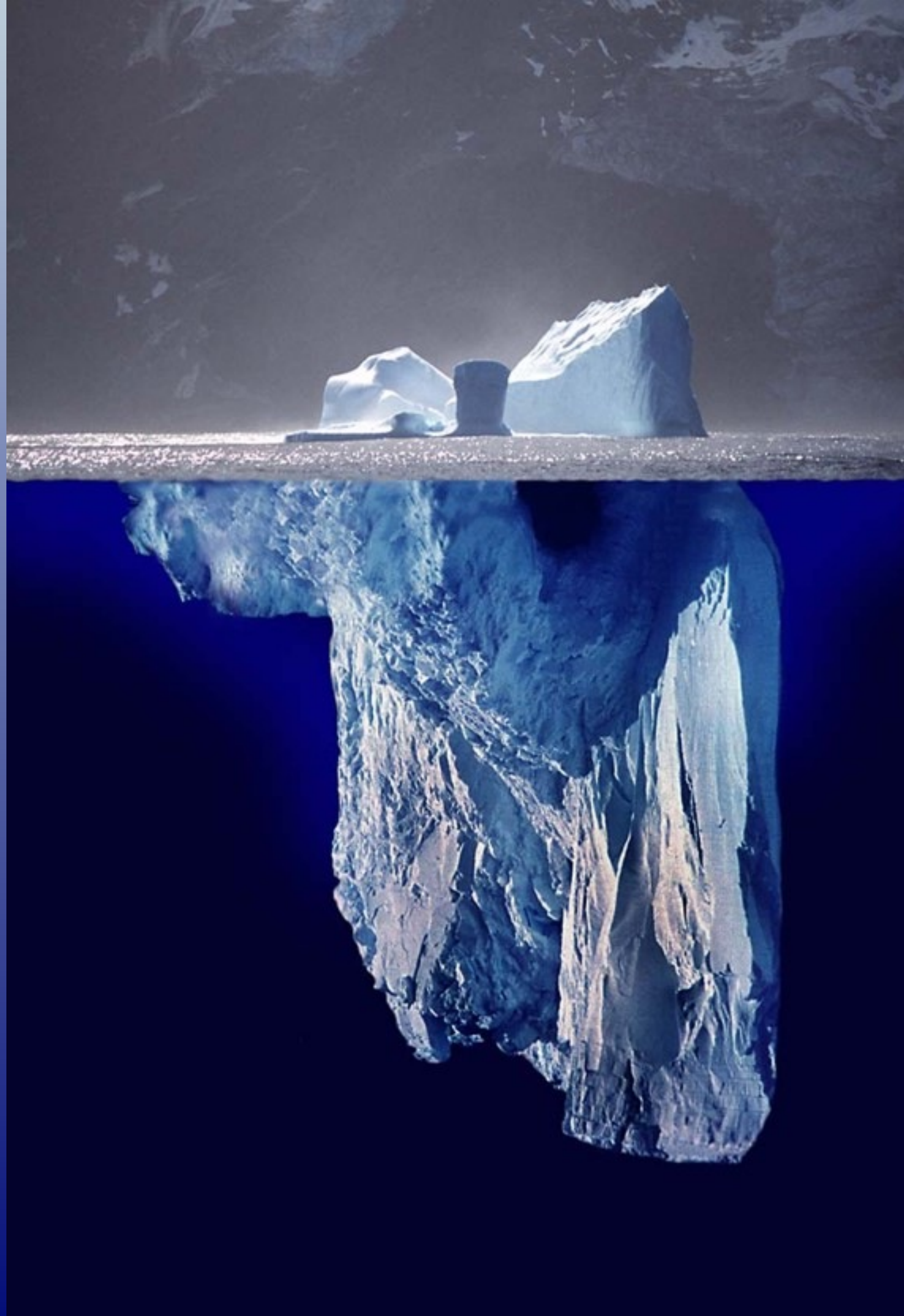
Grouped

Labeled

User Testing

- » Representative users
- » Representative tasks
- » Observe behavior

Maintainability



Effort

Cost

Timeliness

Scalability

Delight

Aesthetics: *Does my website look good?*

Enjoyment: *Do people enjoy using it?*

Aesthetics

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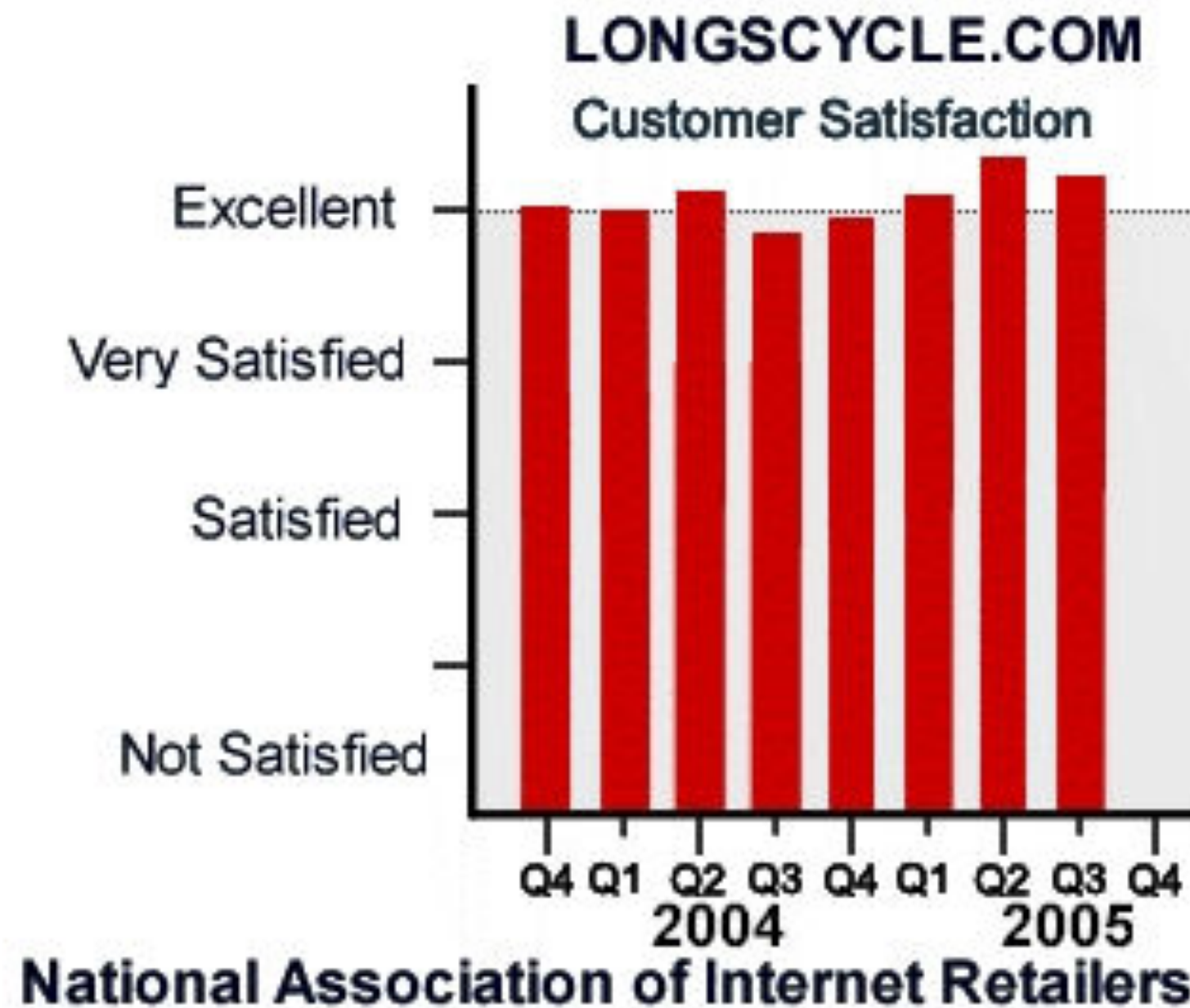
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useit.com: Jakob Nielsen's Website

Permanent Content

Alertbox

Jakob's column on Web usability

[Progress in Usability: Fast or Slow?](#) (February 22)

Over the past decade, usability improved by **6% per year**. This is a faster rate than most other fields, but much slower than technology advances might have predicted.

[iPhone Apps](#) (February 10)

[Testing Expert Users](#) (January 25)

[10 Best Intranets of 2010](#) (January 4)

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News

[Usability Week 2010](#) Conference

- > [Atlanta](#), GA: February 22-26
- > [New York](#), NY: March 22-26
- > [Chicago](#), IL: April 19-24
- > [London](#), UK: May 16-21
- > [San Francisco](#), CA: June 14-19

[3-Day Camp: Usability in Practice](#) (Chicago only)

Full-day seminars, including

- > [IA1](#) (structure) & [IA2](#) (navigation)
- > [Fundamental Guidelines for Web Usability](#)
- > [Apps design 1](#) (GUI) & [Apps design 2](#) (workflow)
- > [Integrating Social Features on Mainstream Websites](#)
- > [Writing for the Web](#) (2-day seminar)
- > [The Human Mind: How Your Users Think](#)

Washington Post [Flash panned](#) (about Flash on the iPhone)

BusinessWeek [World's 28 most influential design](#)

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through Jesus Christ our Lord.**

-Romans 6:23

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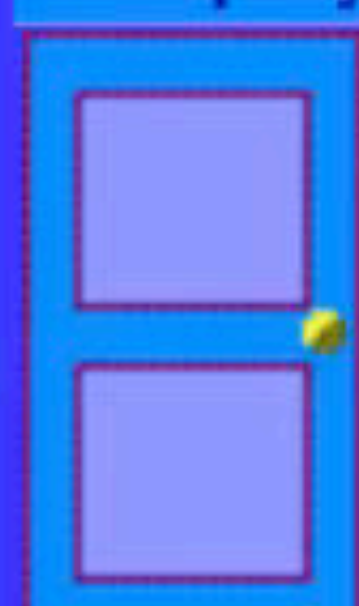
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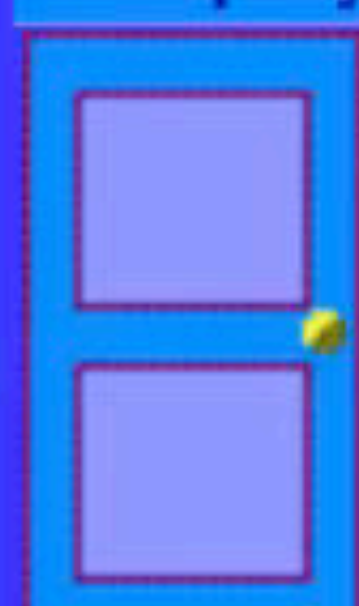
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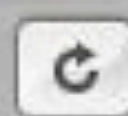
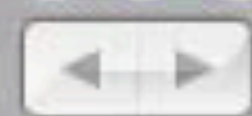
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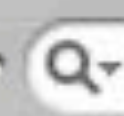
Untitled



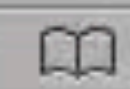
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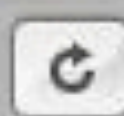
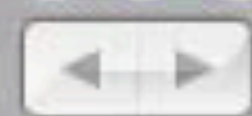
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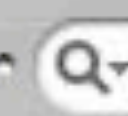
Untitled



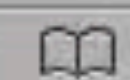
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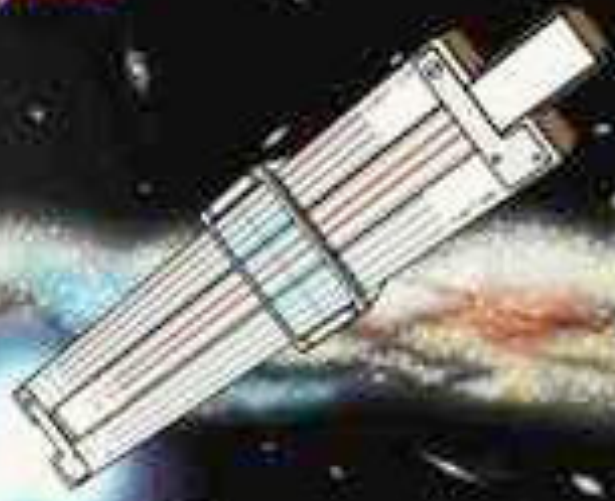
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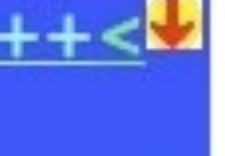
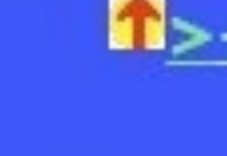
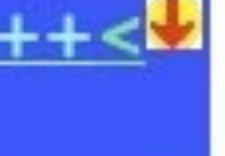
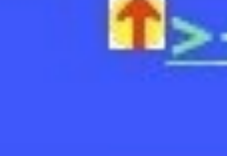
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McCain / Palin = Divisive + Hateful

McCain/PALIN are INCITING HATRED - John McCain's Rage is a National Security Concern

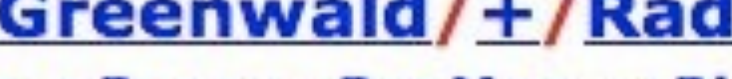
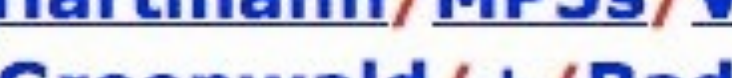
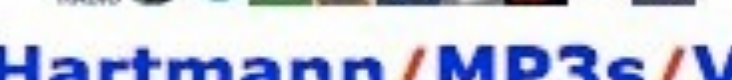
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Barack Obama



Michael Mukasey



John McCain



Political



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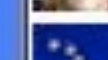
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Sarah Palin

Russia



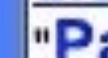
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Palin unaware of Russian

energy meeting in Alaska."

The campaign of [Republican] vice

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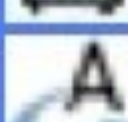
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energy meeting in Alaska." ...

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Noteworthy

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Sarah Palin - +2008 Election -

"Founder Of Group Palin Courted Professed
"Hatred For The American Government";
Cursed "Damn Flag". ...

"The founder of the Alaska
Independence Party -- a group that has been courted over the
years by [2008 Election Republican Vice Presidential
Candidate and Alaska Governor] Sarah Palin, and one her
husband was a member of for roughly seven years -- once
professed his "hatred for the American government" and

OPINION

 **Barack Obama** -  **2008 Election** -  **Federal** -  **Law** -  **Politics** -  **Investigation** -  **Colorado** -  **Indiana** -  **Ohio** -  **Michigan** -  **Nevada** -  **North Carolina** -  **New Hampshire** -  **Wisconsin**

"Obama Campaign: Count Every Vote." ... "Republicans have been raising a huge stink about voter fraud in recent days, but the much bigger question on Election Day [2008] is whether every vote (or at least most of them) will actually be counted." ... "The *New York Times* published a shocking story last week, reporting that "tens of thousands of eligible voters in at least six swing states have been removed from the rolls or have been blocked from registering in ways that appear to violate federal law." ... "The article continued: "Although much attention this year has been focused on the millions of new voters being added to the rolls by the candidacy of Senator Barack Obama, there has been far less notice given to the number of voters being dropped from those same rolls." The paper looked at six swing states: Colorado, Indiana, Ohio, Michigan, Nevada and North Carolina. "Michigan and Colorado are removing voters from the rolls within 90 days of a federal election, which is not allowed except when voters die, notify the authorities that they have moved out of state, or have been declared unfit to vote. Indiana, Nevada, North Carolina and Ohio seem to be improperly using Social Security data to verify registration applications for new voters." ... "The net effect: in Michigan 33,000 voters were removed from the rolls in August and in Colorado 37,000 voters were purged in three weeks since mid-July. Imagine this scenario--on Election Day thousands of voters will show up to the polls, only to be told they're not registered, leading to chaos and confusion, perhaps in large enough numbers to swing the results in crucial swing states." ... "It's a scary thought--and one the [2008 Election Democratic Presidential Candidate Barack] Obama campaign says they're preparing for. On a conference call today, Obama campaign manager David Plouffe and legal counsel Bob Bauer laid out their plans to ensure that every vote is counted." ... "This has been an election of enormous interest to the American people and we think that's something that should be celebrated," Plouffe said. "Our opponents seem to have a different view." ... "Obama counsel Bob Bauer pointed to examples in Montana, where Republicans have used change-of-address forms to improperly challenge new Democratic registrants (a federal judge called the GOP's tactics "political chicanery"); in Ohio, where Republicans challenged same-day registration and absentee voting (the 6th circuit court said the claim rested on "shaky ground"); in Michigan, where Republicans tried to use foreclosure lists to purge voters; and in Wisconsin, where the Republican Attorney General is suing the state's board of elections. (And just today, a GOP [GOP=Grand Old Party=Republican] operative was indicted for lving to

Debate (part 1, 2, 3, 4, 5, 6, 7, 8, 9, 10) Transcript

1st Pres Debate: Intro
Presidential Debate
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Vice Presidential Debate

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Democratic

Obama Speech



Biden Speech



Hillary Speech





Election

"Obama Lawyer Asks for Probe Into Vote-Fraud Claims (Update1)." ...

"Robert Bauer, general counsel to the [2008 Election Democratic Presidential Candidate Barack] Obama campaign, wrote to Attorney General Michael Mukasey a day after the Associated Press, citing unidentified law enforcement officials, reported that the Federal Bureau of Investigation was investigating ACORN. The name is short for Association of Community Organizations for Reform Now." ... "A special prosecutor appointed by Mukasey already is looking into whether improper political considerations influenced the firings of nine U.S. attorneys. At least one prosecutor was fired following Republican complaints that he didn't aggressively pursue allegations of voter fraud against ACORN." ... "Bauer said the news leaks are part of a coordinated effort by [2008 Election Republican John] McCain's presidential campaign and Republicans. They are "fomenting specious vote-fraud allegations and there are disturbing indications of official involvement or collusion," Bauer said." ... "It is apparent," he wrote, that law enforcement officials are serving "improper political objectives" that could inhibit voter participation in the [2008 November] Nov. 4 election. The aim is to "suppress the vote and to unduly influence investigations and prosecutions," Bauer wrote. " -By Jeff Bliss -[Bloomberg](#)

Noteworthy

 **Barack Obama** -  **John**

presidential candidate Sarah Palin said the Alaska governor was unaware of a visit by Russian energy officials to Anchorage [Alaska] on Monday." ... "Eight high-level officials from Gazprom, Russia's state-controlled energy conglomerate, traveled to Anchorage earlier this week to meet with the Alaska Department of Natural Resources and the chief executive of ConocoPhillips to discuss energy projects and the possibility of expanding into new markets." ... "But the campaign said the governor did not know that the Gazprom delegation was meeting with the commissioner of the Alaska Department of Natural Resources, who is a Palin appointee." -By Peter Hamby -[CNN](#)

20081010

Politics

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"Ex-president Carter slams Bush on market crisis." ...

"Former [Democratic] President Jimmy Carter said on Friday the "atrocious economic policies" of the Bush administration had caused the worst global financial crisis since the Great Depression of the 1930s." ... "Carter told reporters on a stopover in Brussels [Belgium and EU's capital] that "profligate spending," massive borrowing and dramatic tax cuts since President George W. Bush took office in 2001 were behind the market turmoil and economic crisis." ... "Eight years ago, the United States had a budget surplus, low inflation and a stable, strong economy, he said." ... "Carter said he was astonished that the United States


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convention and she recorded a video greeting for this year's 2008 convention." -By [Robert F. Kennedy Jr.](#) -[HuffingtonPost.com](#)

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["Obama Campaign: Count Every Vote."](#) ... "Republicans have been raising a huge stink about [voter fraud](#) in recent days, but the much bigger question on Election Day [2008] is whether every vote (or at least most of them) will actually be counted." ... "The *New York Times* published a [shocking story](#) last week, reporting that "tens of thousands of eligible voters in at least six swing states have been removed from the rolls or have been blocked from registering in ways that appear to violate federal law." ... "The article continued: "Although much attention this year has been focused on the millions of new voters being added to the rolls by the candidacy of Senator Barack Obama, there has been far less notice given to the number of voters being dropped from those same rolls." The paper looked at six swing states: Colorado, Indiana, Ohio, Michigan, Nevada and North Carolina. "Michigan and Colorado are removing voters from the rolls within 90 days of a federal election, which is not allowed except when voters die, notify the authorities that they have moved out of state, or have been declared unfit to vote. Indiana, Nevada, North Carolina and Ohio seem to be improperly using Social Security data to verify registration applications for new voters." ... "The net effect: in Michigan 33,000 voters were removed from the rolls in August and in Colorado 37,000 voters were purged in three weeks since mid-July. Imagine this scenario--on Election Day thousands of voters will show up to the polls, only to be told they're not registered, leading to chaos and confusion, perhaps in large enough numbers to swing the results in crucial swing states." ... "We never thought, and on the 2008 Election Democratic Presidential Candidate Barack Obama campaign says



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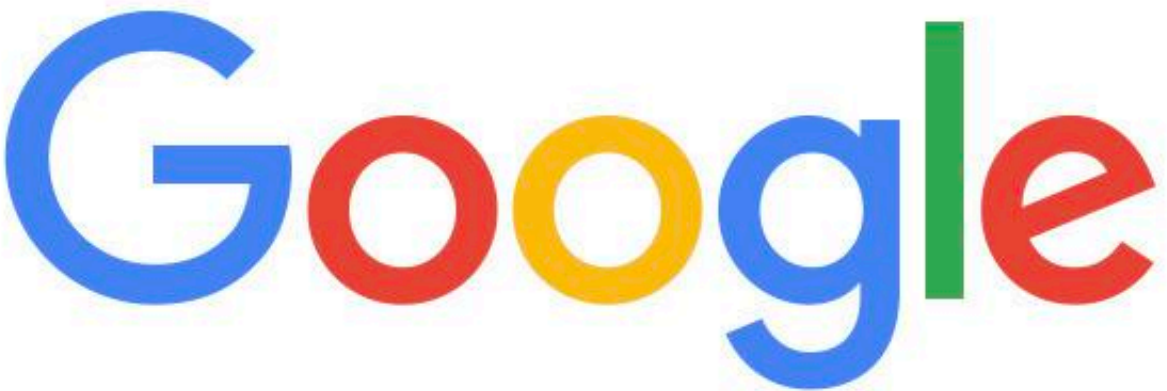
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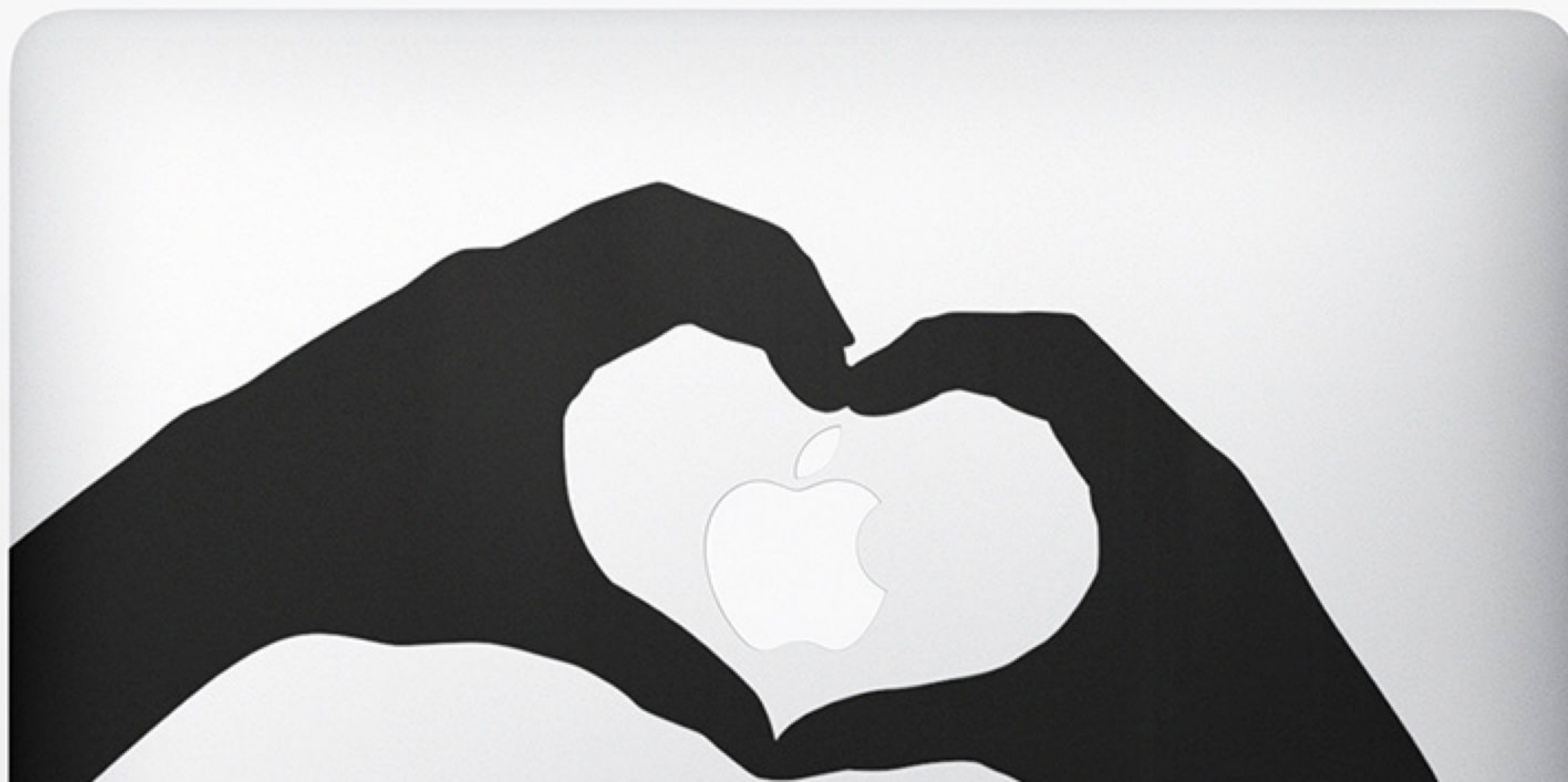
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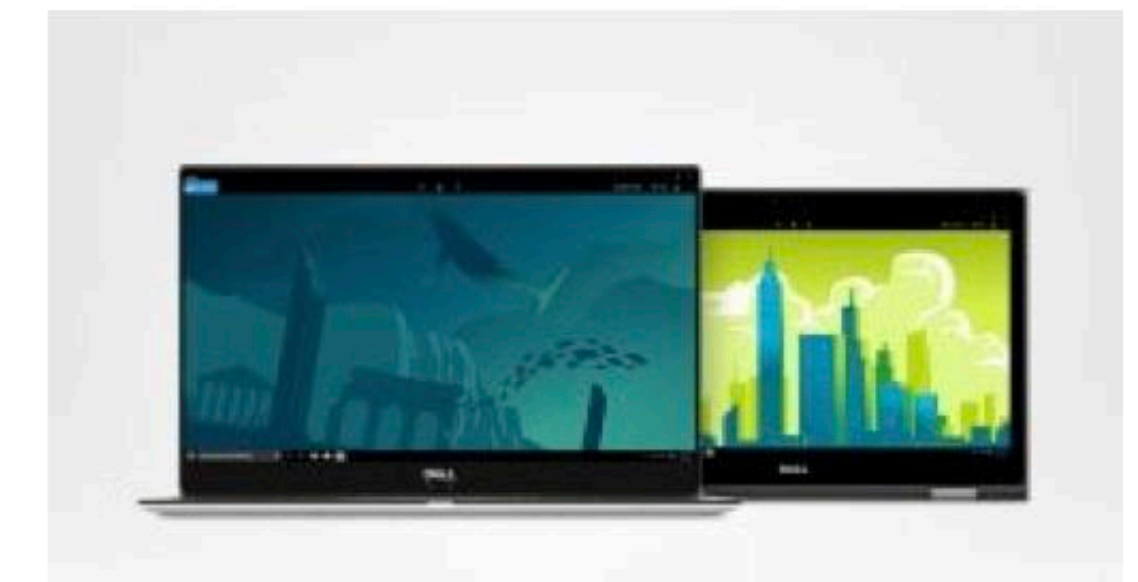
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By PETER BAKER and CHOE SANG-HUN 4:08 PM ET

- Three American prisoners released by North Korea were flying back to the United States, heading toward an air base where President Trump prepared to greet them.
- Their liberation removed a bitter and emotional obstacle ahead of a planned summit meeting between Mr. Trump and Kim Jong-un, the North Korean leader.

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2018 Who Are the Freed Detainees?



Video by CAMILLA SCHICK. Photo by Office of Iran's Supreme Leader, via Agence France-Presse — Getty Images

### Iranians Fear They Will Bear Brunt of Trump's Decision

The president's plan to pull out of the nuclear deal and impose sanctions prompted concern on the streets of Tehran.

### Humiliated by Trump, Europe Tries to Defend Its Interests

By STEVEN ERLANGER 6:25 PM ET

It is becoming clearer that trans-Atlantic relations are in trouble, and the options aren't good for America's closest European allies.

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### WHITE HOUSE MEMO Trump Finally Able to Put Imprint on Foreign Policy

By PETER BAKER

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By CLIFFORD KRAUSS 4:10 PM ET

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### Republican Midterm Mastermind Tells All!

By FRANK BRUNI and CORRY BLISS



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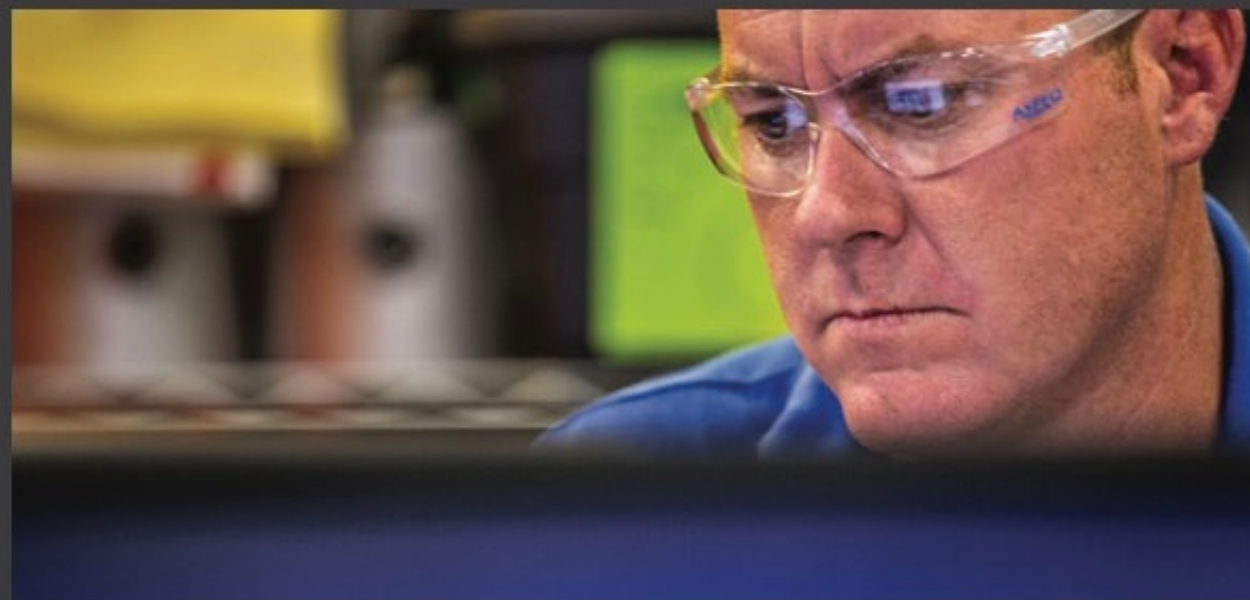
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OCTOBER 2, 2017

**Webinar - Industry's First  
Wet Location EXP Unit  
Heater**

JULY 19, 2017

**Pressure Plates and Duct  
Heaters**

JUNE 22, 2017

**UHCI Series Unit Heater**

**ALL NEWS**

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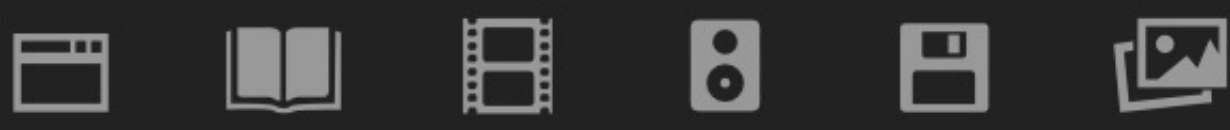
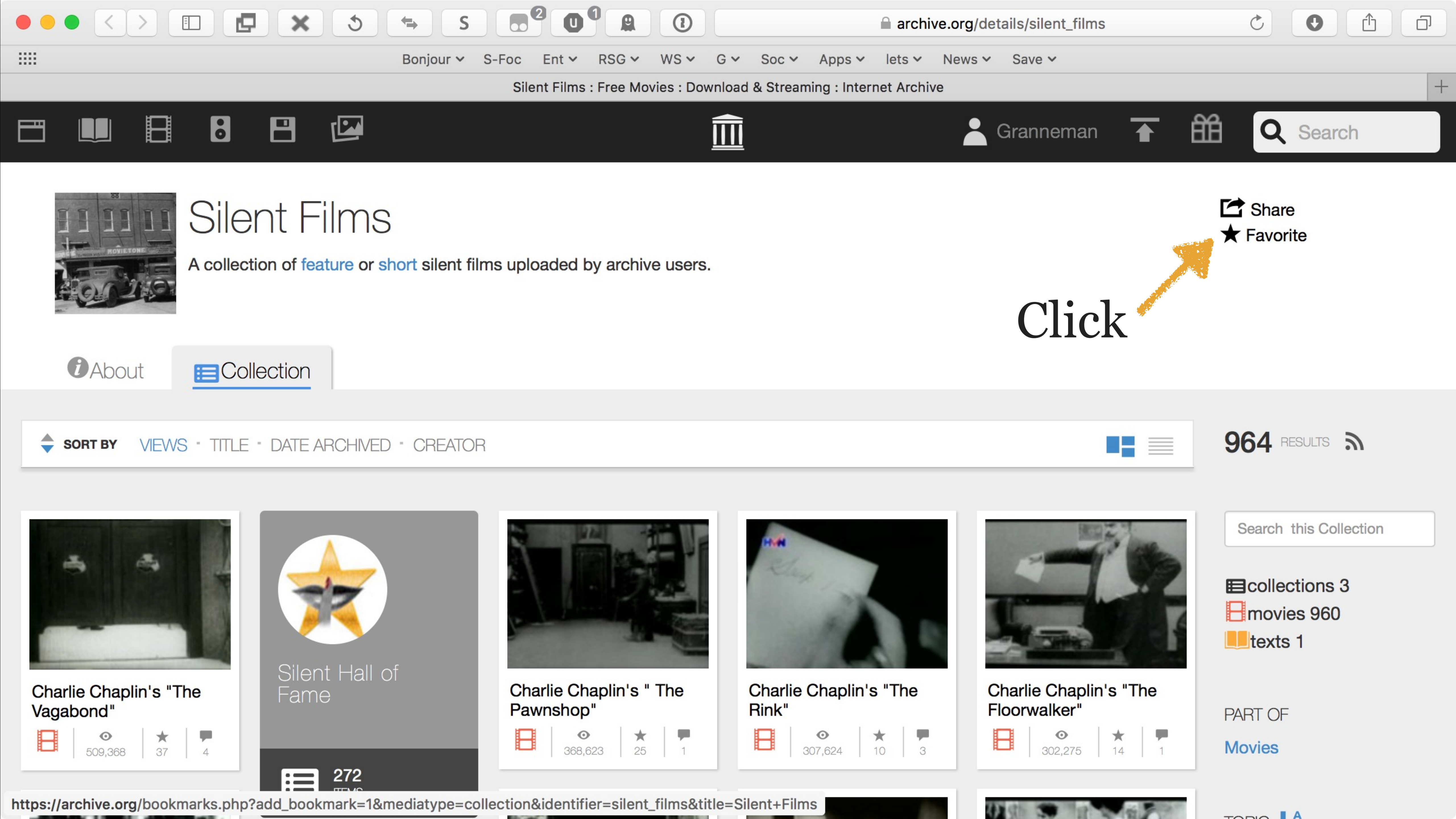
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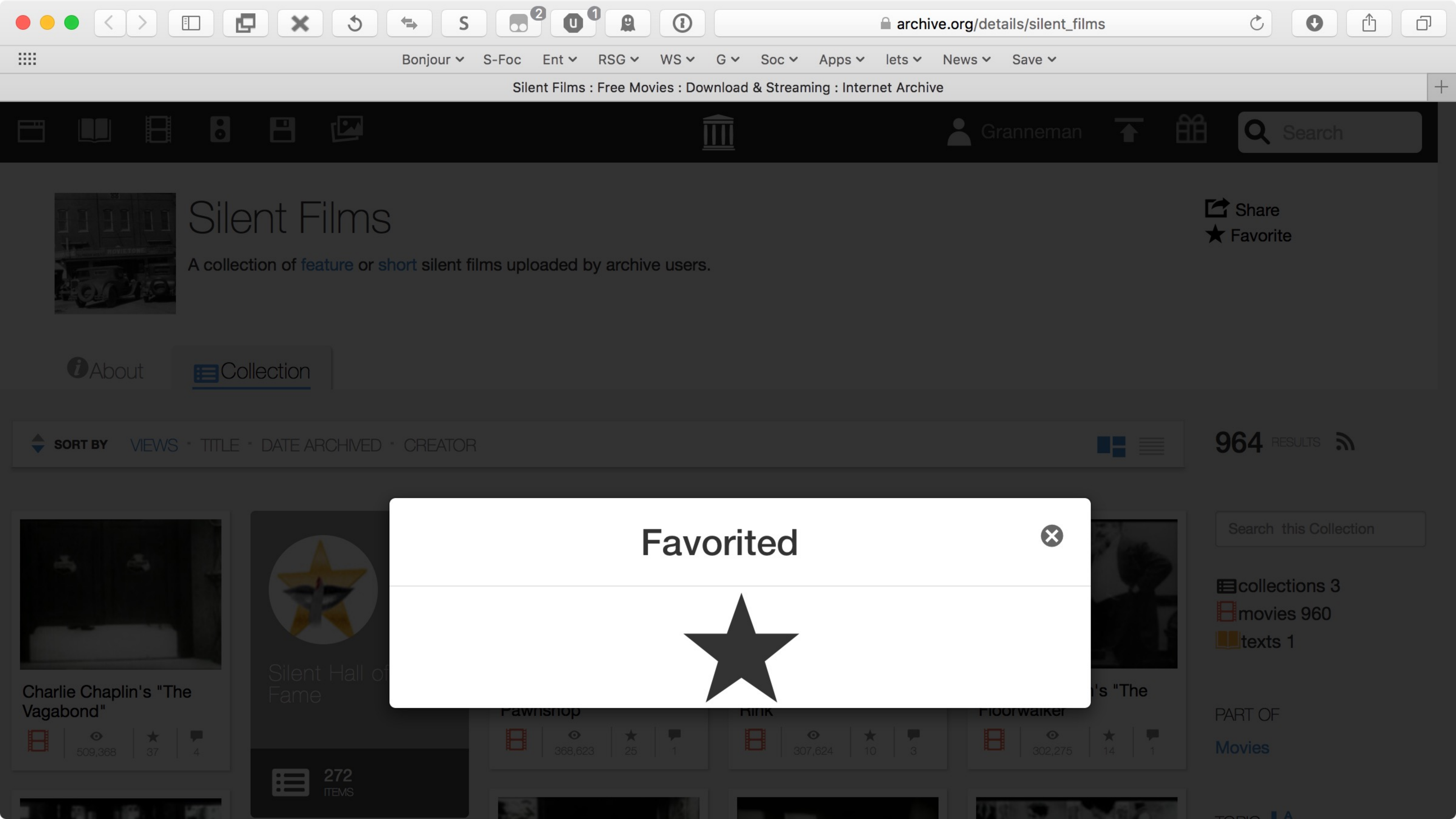
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At Tampax we understand this and that's why our tampons are designed to suit your body and help you get on with life.

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Women's Health

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Mother to daughter

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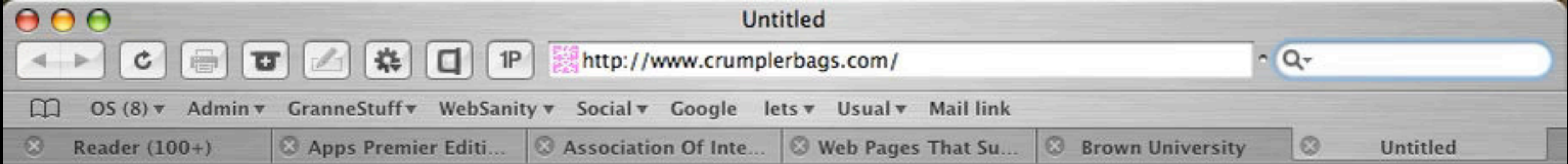
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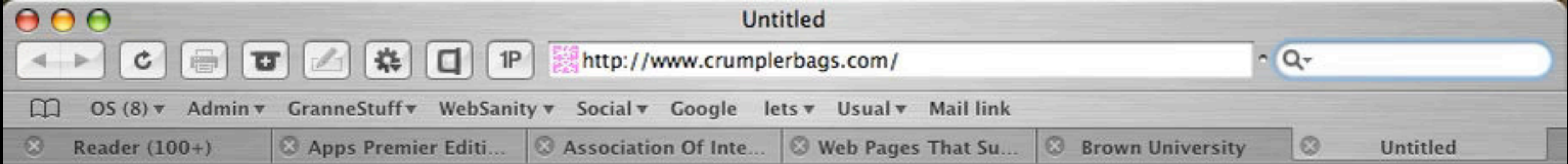
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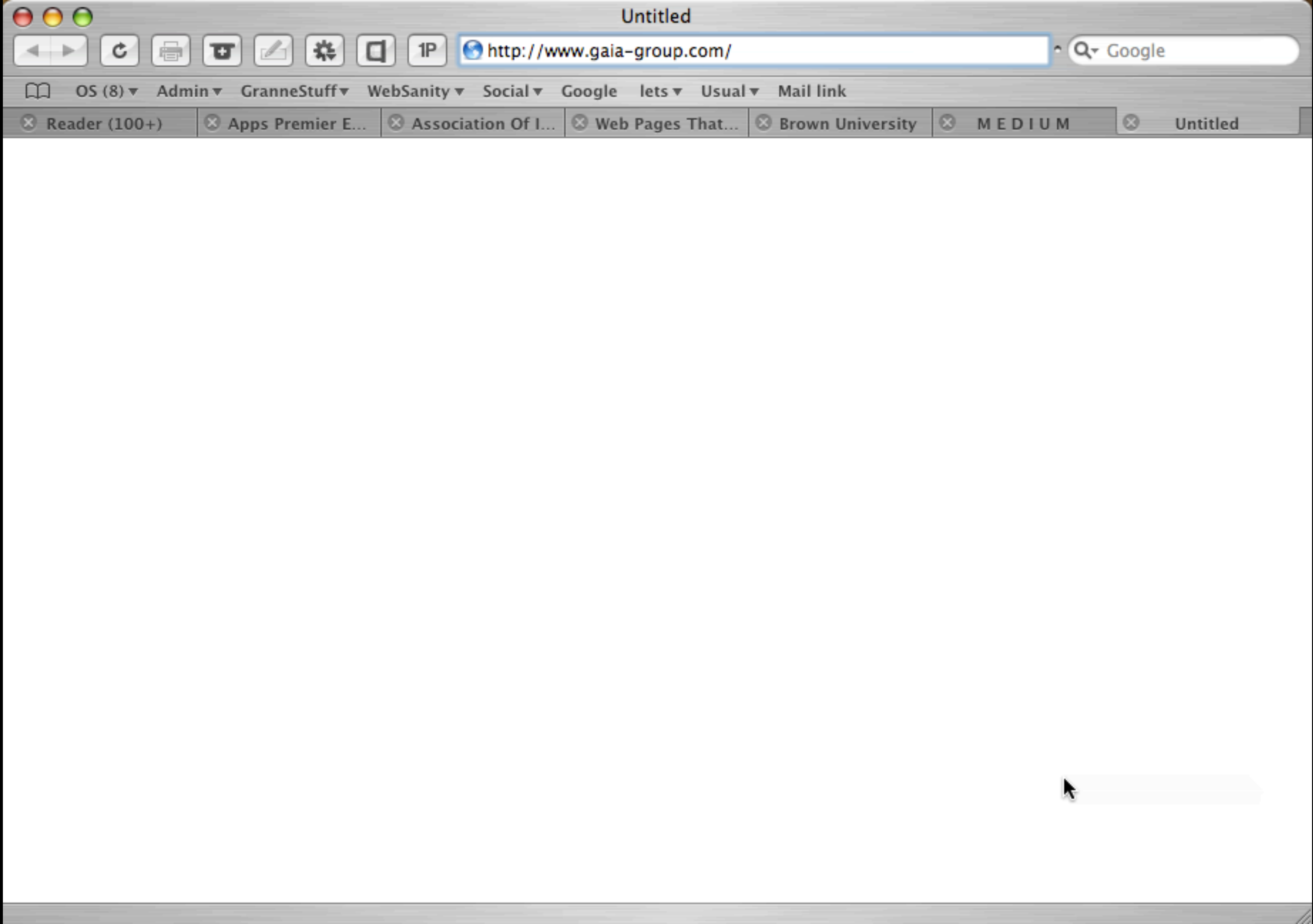
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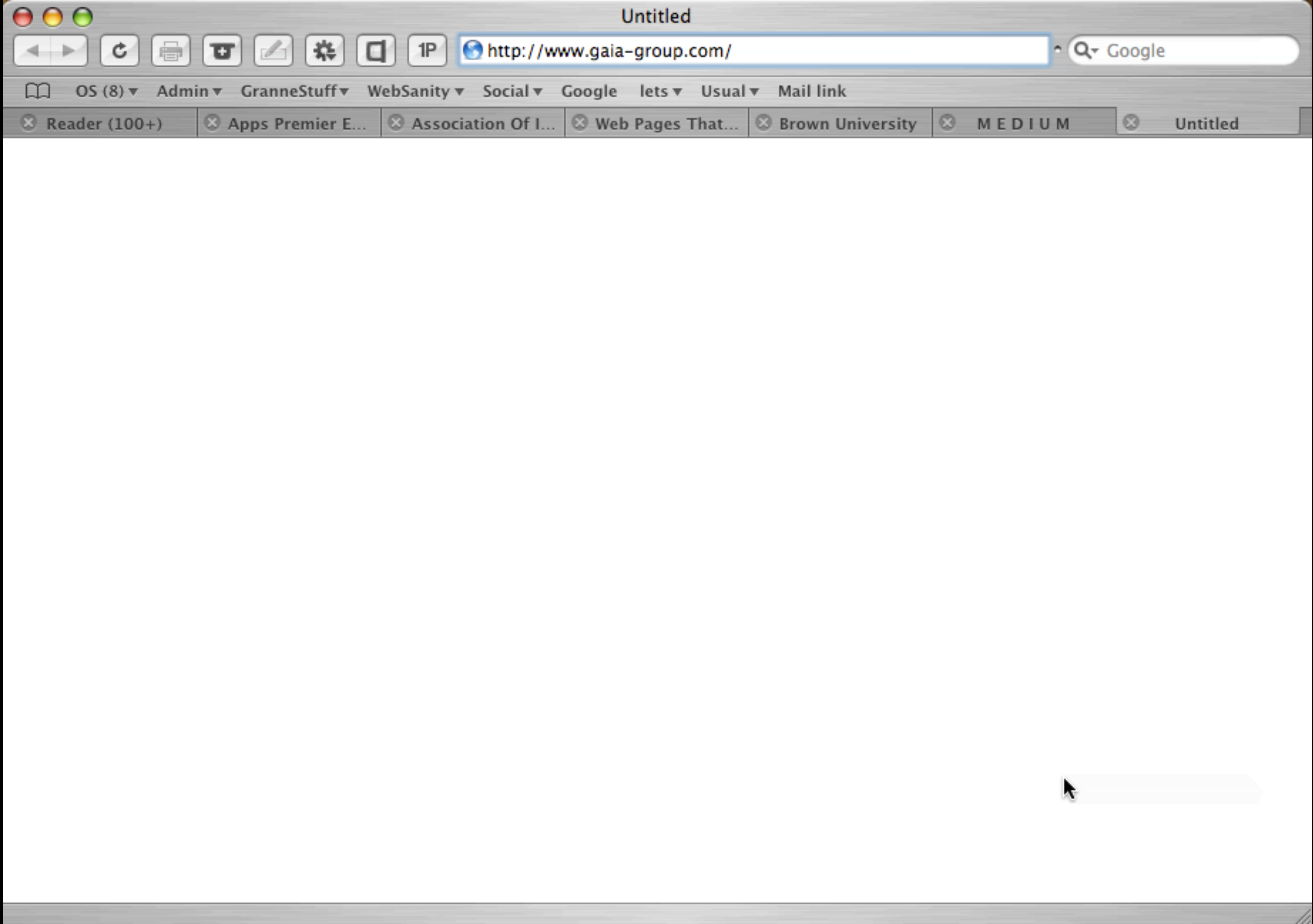






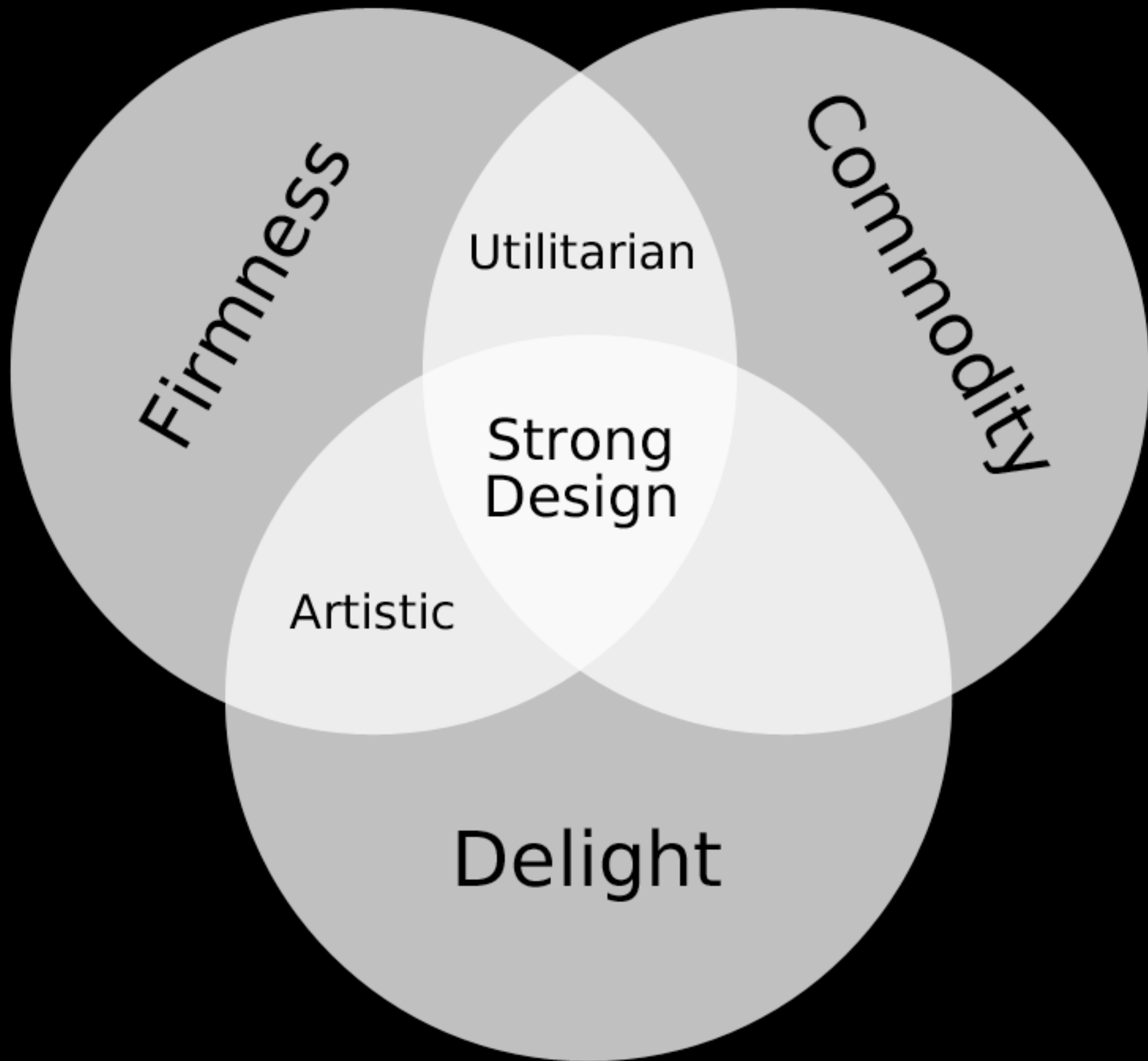


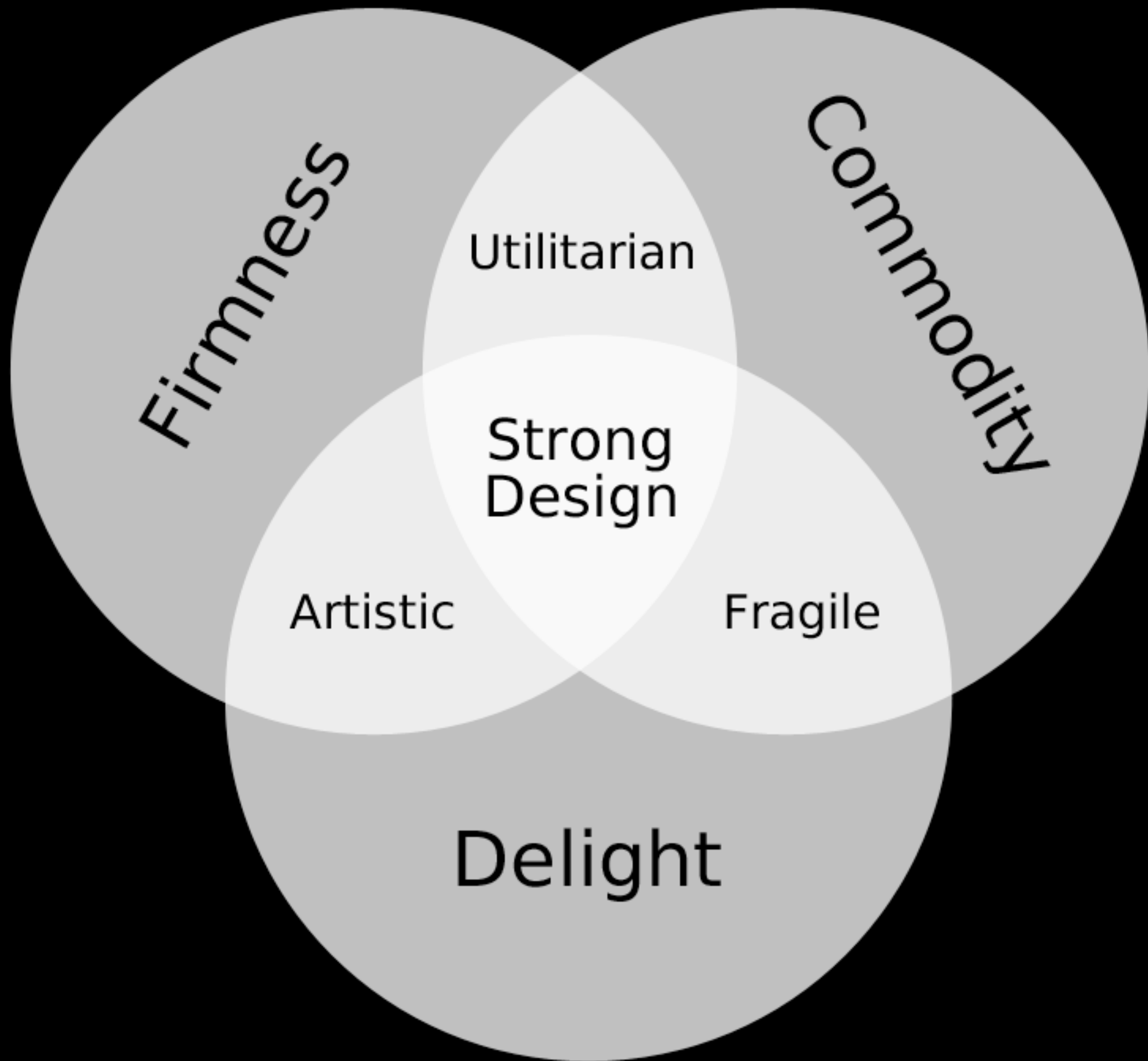




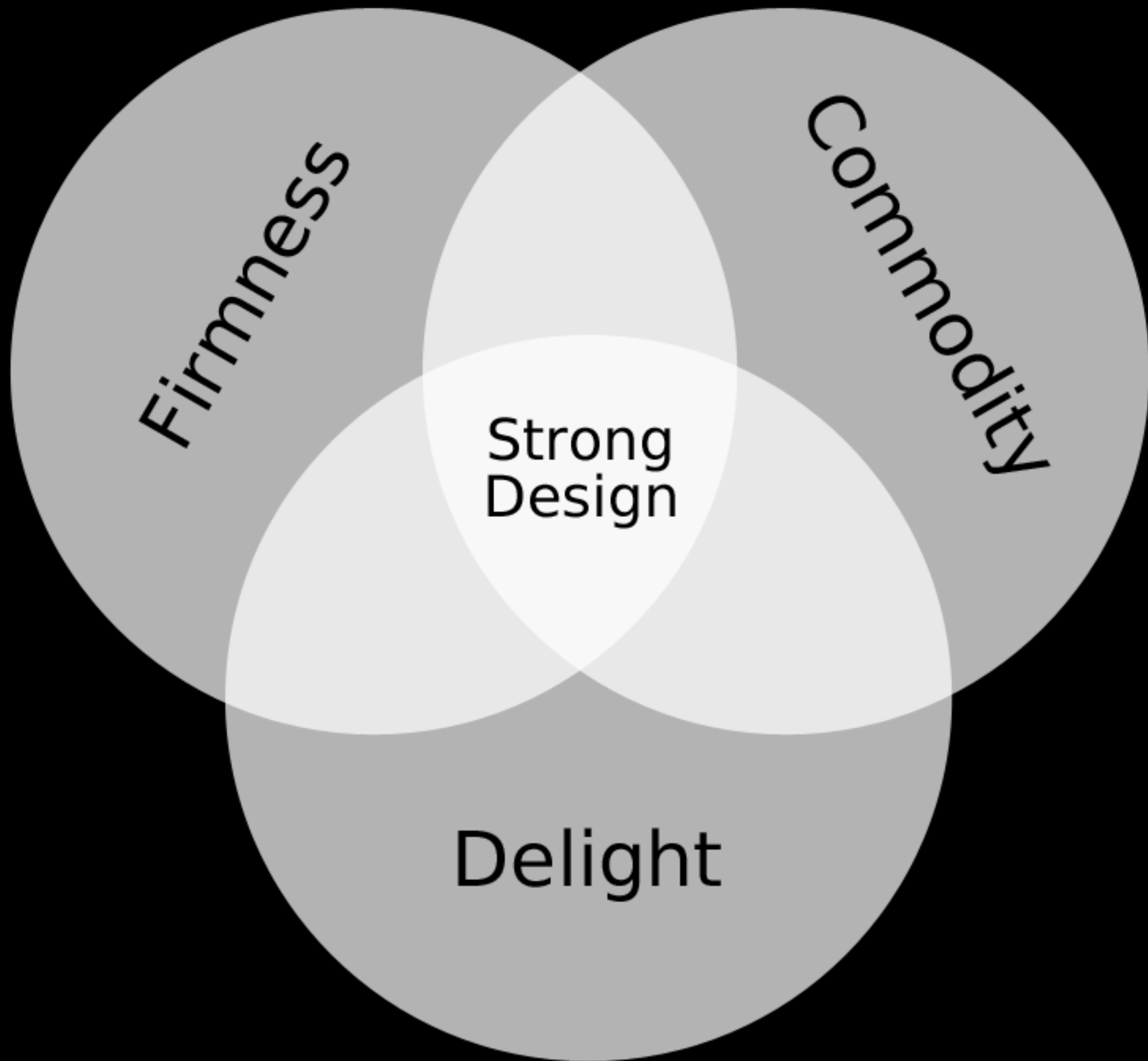




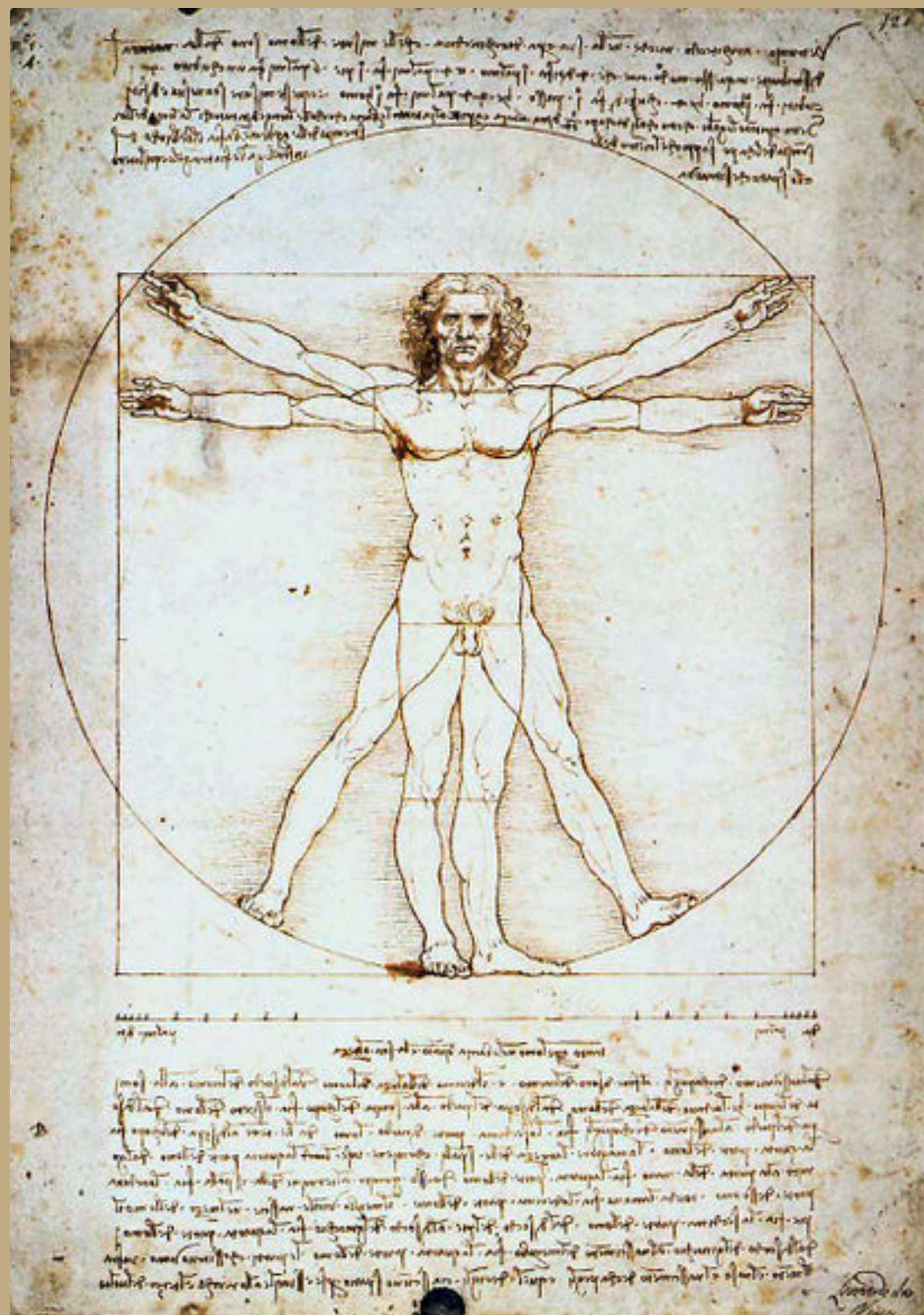














Thank you!

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# Design Theory

## The Vitruvian Triad

R. Scott Granneman & Jans Carton

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Last updated 2022-01-18

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# Changelog

2022-01-18 1.7: Added Don Norman's Nonstandard Clock to *Standards*; added Steve Krug's definition of "usable" to *Usability*

2022-01-16 1.6: Updated theme to Granneman 1.7; minor changes

2021-01-18 1.5: Added Ruskin quote

2019-06-12 1.4: Updated theme to Granneman 1.4; fixed formatting errors; minor fixes

# Changelog

2015-05-26 1.3: Fixed a few items

2015-01-16 1.2: Added cars with oval tires, video, Nielsen quote, &  $\equiv$  to Learnability; changed “Device Testing” to “Testing” & added screenshot of BrowserStack

2014-08-09 1.1: Moved content to new format



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