

# Accessible First Design

**What is accessibility?**

Every citizen has an **equal right** to  
the **access** of information.

Disabled people are  
**second-class citizens** in news



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updated 12:29 AM EST, Mon February 24, 2014

## Inside the hunt for 'El Chapo'

Search marked by rumors, close calls

A no-frills beachside condo tower isn't where you'd expect to find the world's most wanted drug lord. FULL STORY

They got 'Shorty' - now what? Meet 'Public Enemy No. 1'

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Hi 70° | Lo 42° Feels like 54°

NEW DAY

6-9am ET Only on CNN

MARKETS

Markets Closed

Updated: 6:16 pm ET Feb 21

Dow 16,103.30 -29.93 (-0.19%)

Nasdaq 4,263.41 -4.13 (-0.10%)

S&P 1,836.25 -3.53 (-0.19%)

The New York Times

Monday, February 24, 2014

Everyone has retirement questions.

### In Ukraine, a Rush to Shift Power and Mend Rifts

By DAVID M. HERZENHORN 9:13 PM ET

Racing to restore calm after a week of upheaval and bloodshed that ended in President Viktor F. Yanukovich's flight, Parliament and the military seemed to pull the country back from the brink.

### As His Fortunes Fell, Ukraine's President Clung to Illusions

By ANDREW HIGGINS and STEVEN WELANDER 9:41 PM ET

Between the signing ceremony for a peace deal and a break to congratulate Ukraine's Olympic team, President Viktor F. Yanukovich's prospects took a dramatic turn for the worse.

### Pentagon Proposes Pre-World War II Level for Army

By THOM SHANKER and HELENE COOPER 9:41 PM ET

Defense Secretary Chuck Hagel's budget proposal would eliminate an entire class of Air Force attack jets and scale back the size of the Army not just to pre-9/11 levels, but to the force's size in 1940.

### Astonishment Greeted Seizing, Without a Shot, of El Chapo

By DALMEN CAVE 8:41 PM ET

The takedown of the world's most wanted man — head of a sophisticated narcotics enterprise — unopposed assumptions about

### A Four-and-a-Half-Ring Circus Ends in Sochi

By SARAH LYALL

### A Second Front in the Privacy Wars

By THE EDITORIAL BOARD

The Obama administration has to renew its commitment to protecting consumer data.

### Why Russia Won't Interfere in Ukraine

By DIMITRI TRENIN

Moscow should stand back and wait, while quietly favoring decentralization.

### What the West Must Do

Op-Ed: The Disunited Kingdom

Op-Ed: Expand Pre-K, Not A.D.H.D.

The Stone: The 'Stand Your Ground' Philosophy's Error

### Young Immigrants Put Pressure on Obama

By JILLIA PRESTON 8:24 PM ET

After months of rallies brought no movement in the House on immigration, a network of young immigrants has decided to turn its protests on President Obama.

### Panel Seeks Greater Disclosures on Pension Health

By MARY WILLIAMS WALSH 12:57 AM ET

In a report, risk experts will urge actuaries to provide the estimates of annual cash outlays needed to cover pensions.

### Another Helping of 'Downton,' M'Lord?

By DAVE ITRKOFF 10:30 PM ET

Julian Fellowes, the creator and writer of "Downton Abbey," talks about the show's most recent season, and its future.

Q. and A. With Julian Fellowes

### Rates Rising for Modified Loans

By JEFFREY H. WATSON

Mortgages whose rates were modified through the government's HAMP program in 2009 can expect to see monthly payments rise.

More Mortgage Columns

REAL ESTATE AUTOS JOBS ALL CLASSIFIEDS

FIND PROPERTIES

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- Search for Properties
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- Commercial Real Estate
- Video Showcase: Real Estate
- Post an Ad

Mexico's most wanted drug kingpin captured

Learn about once-daily prescription that may help you

minute clinic

Docs oppose retail-based clinics for kids' care

TECH

Apps: From News to Social

Fox News - Breaking News

www.foxnews.com

February 24, 2014 - Updated at 1:07 AM ET

ON AIR NOW 1a Stossel WATCH LIVE

2a Fox News Sunday w/ Chris Wallace Hosted by Chris Wallace

## Faced with hard times, Americans unsure how to fix income inequality

AS WASHINGTON debates how best to address the gap between the nation's rich and poor, Americans agree that a widening economic gulf exists — they just don't know what to do about it.

VIDEO: White House Ignores Hollywood's income inequality, Gutfield says

VIDEO: Political roots of the income inequality argument

### 'GOING TO BE HUGE' Natural gas has Gulf Coast hoping for energy boom

VIDEO: Obama wants \$2B in new 'green' spending

VIDEO: Will Keystone pipeline ever get built?

### MEXICAN DRUG KINGPIN Guzman's arrest sparks battle over trial location

How investigators turned the screw on 'El Chapo'

Holder praises 'landmark' arrest

VIDEO: Cartel leader arrested in Mexico

VIDEO: New details emerge in Guzman's arrest

### MISSOURI'S Michael Sam wishes focus could stay on football

Missouri's Michael Sam wishes focus could stay on football

### MAKING HISTORY Collins becomes first active openly gay NBA player

Collins becomes first active openly gay NBA player

Week Ahead: Housing Data to Take Center Stage

Winter Weather Takes Toll on Small Business Revenue

UAW Appeals Defeat At Volkswagon Plant To NLRB

WATCH NOW

Huckabee: America would be better off with GOP in control

Taliban ends talks to release captured American soldier

New details on the capture of Joaquin 'El Chapo' Guzman

Are you contagious after the shingles vaccine?

Paralympic track star rides F-16 fighter jet

Meet the National Zoo's 'precious treasure'

LATEST NEWS

- Young father leads 'alternative lifestyle' for Olympic, NBC story says
- Russia secures Sochi medals title
- Petition protesting Russian figure skater's win garners record number of signatures
- Canada wins gold medal in Olympic hockey
- SOCHI OLYMPICS COVERAGE
- Taliban: Talks halted for American POW Bergdahl
- High school student killed over prank is laid to rest
- Scotland Yard gets secret files in hunt for Madeleine McCann
- Retired military member to serve with NYPD
- Grief dog helps to comfort mourners in Iowa
- ObamaCare at center of governors' meeting
- Kansas lawmaker proposes bill to track citizenship status in public schoolchildren
- Oil spill closes New Orleans port, part of Mississippi River
- Anti-bullying activist, TV personality commits suicide
- GOP tells Obama to warn Putin off Ukraine action
- Ukraine taps new leader as ex-president vanishes
- Faulty water heater pipe blamed for deadly carbon monoxide leak at NY mall

Weather

Atlanta, GA

54° P/Cloudy

Hi 70° | Lo 42° Feels like 54°

NEW DAY

6-9am ET Only on CNN

MARKETS

Markets Closed

Updated: 6:16 pm ET Feb 21

Dow 16,103.30 -29.93 (-0.19%)

Nasdaq 4,263.41 -4.13 (-0.10%)

S&P 1,836.25 -3.53 (-0.19%)

55 million

THE GOOD NEWS



002-LAB

QUEENSLAND - SUNSHINE STATE

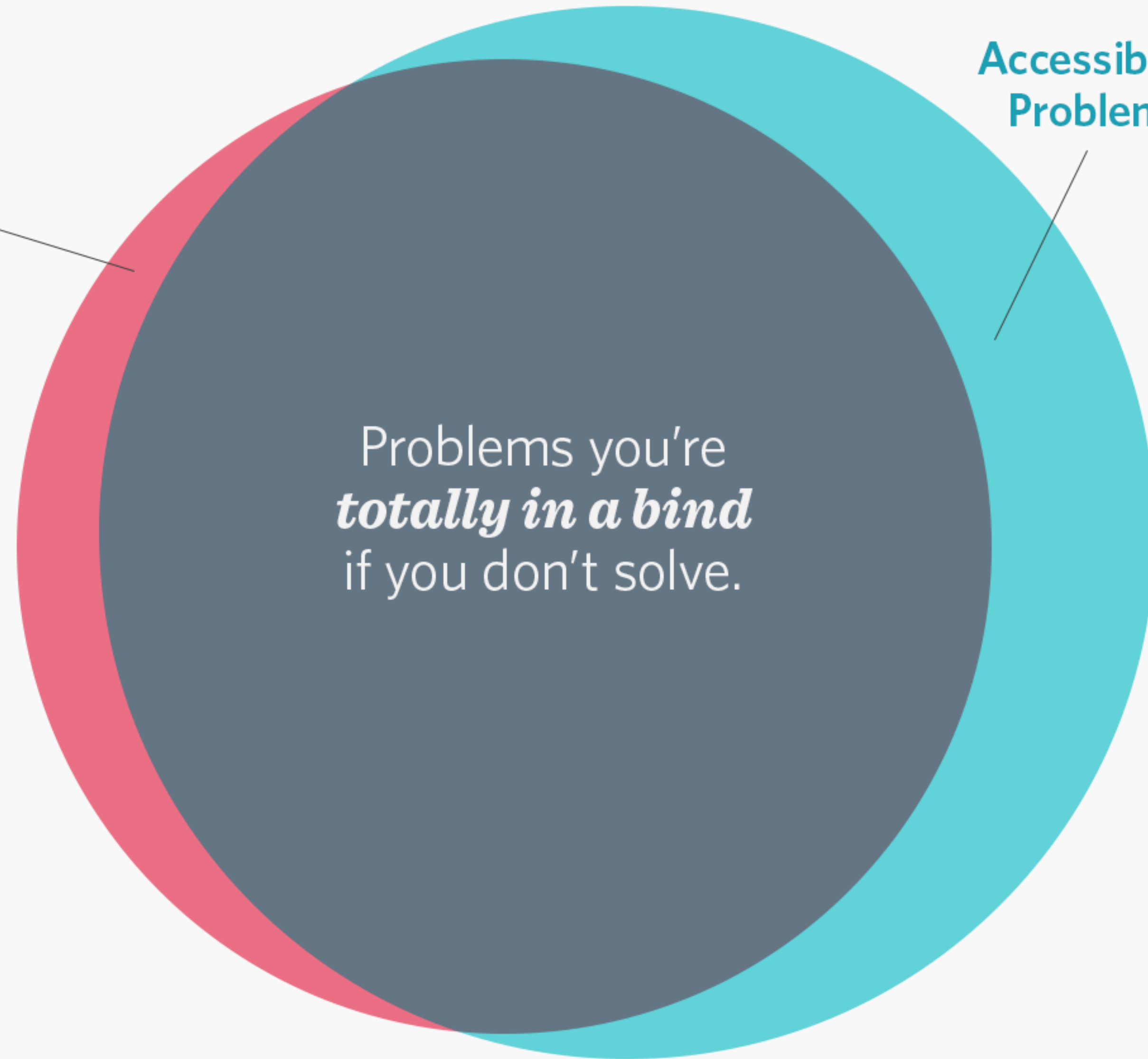
555-1SI



Mobile & Usability  
Problems

Accessibility  
Problems

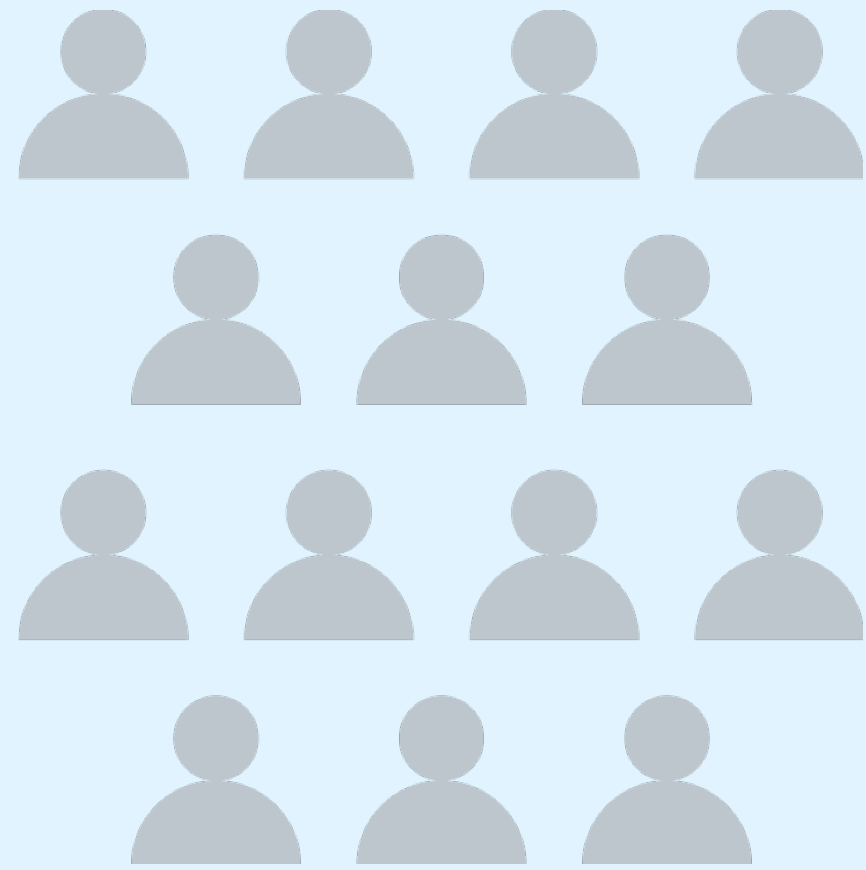
Problems you're  
*totally in a bind*  
if you don't solve.



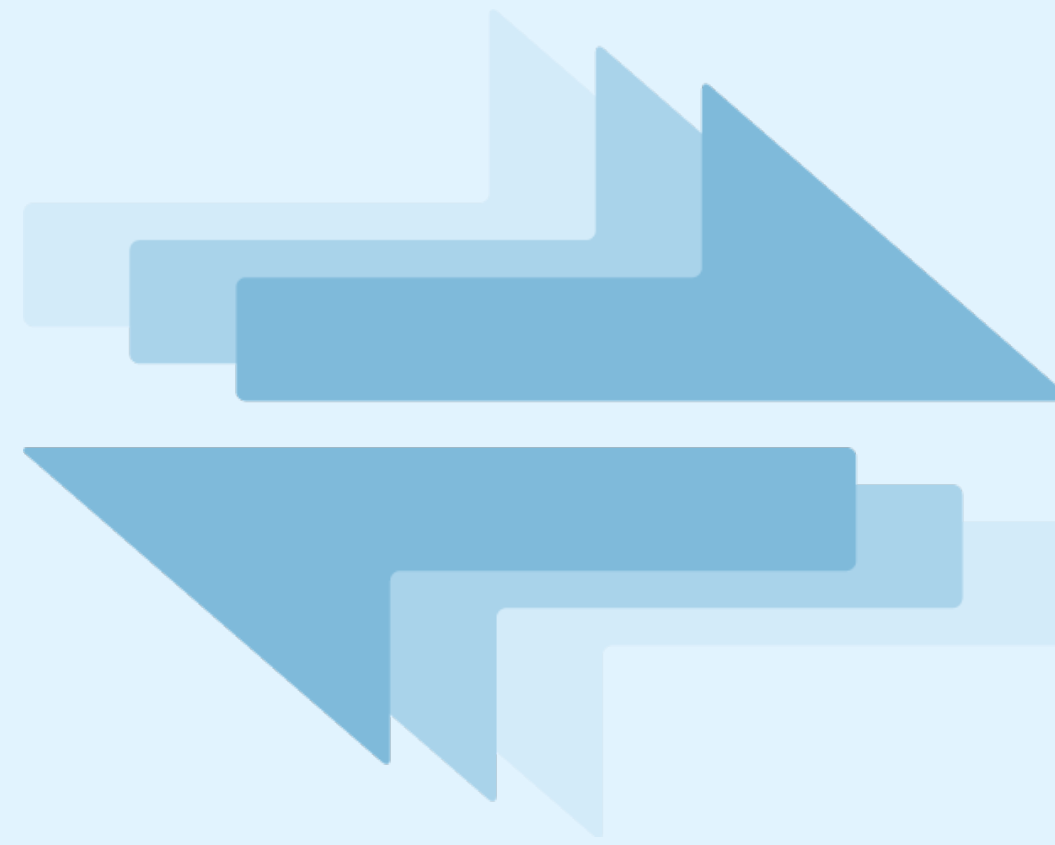
**LET'S FIX IT.**

**Design. Implement. Evaluate.**  
**(repeat)**

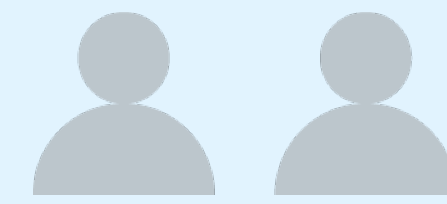
NewsA11y



Barriers



Dialogue



Solutions


# Implementation

The background image is a top-down view of a desk with a blue color overlay. On the left is a laptop with its screen open, displaying a grid of icons. To the right of the laptop is a camera with a lens cap removed. In the foreground, there is an open notebook with handwritten notes and a pen resting on it. The overall scene suggests a workspace for design or development.

Dribbble - iPhone 6 Infinity

dribbble.com/shots/1190633-iPhone-6-Infinity

iPhone 6 Infinity  
by Fabio Basile Aug 9, 2013 | @2x



THIS SHOT IS A REBOUND OF...  
Minimal iPhone 5 [White] Template [PSD]  
by Neway Lau

1 ATTACHMENT  
iPhone\_6\_Infinity\_Template.psd.zip 2 MB

99 Responses (page 1 of 4)

1,933 likes  
189 buckets  
31 rebounds  
50,922 views

Share

Tags  
ios 42  
iphone 22  
flat 21

Fabio Basile  
Inspired by Claudio Guglieri's cool shot I have taken the liberty of modifying Neway's template with the new add-ons.  
iPhone 6 Infinity anyone?  
Don't forget to grab the attached PSD and modify away!  
Wallpaper thanks to Flat Surface Shader (<http://wagerfield.github.io/flat-surface-shader/>) by Matthew Wagerfield and Tobias van Schneider  
fffabs  
7 months ago

Balraj Chana  
To infinity and beyond! Awesome shot :)

What I've learned about creating meaningful work

Working for yourself is scary stuff.

Paul Jarvis in I don't know a thing.

When you work for someone else, it's easy to blame failings or frustrations on the boss, the company or even the customers you're forced to deal with.

But when you run the show, it's all on *you*.

Self-employment is the ultimate life experiment, complete with an uncountable number of variables that come with large amounts of fear and challenges. But for those of us who do it, we don't know any other way. We aren't content with the status quo and feel the need to hack it. To innovate. To make something new.

I've been on this path for over 16 years, mostly writing and making websites, but I've also started a handful of other ventures that have absolutely flopped. I've also started businesses that did well but I ended up closing them down—it's surprising how easy it is to build a business you hate, and then it's nobody's fault but your own.

alistapart/AListApart - GitHub

github.com/alistapart/AListApart

AListApart

Star 525 Fork 63

front end repo <http://alistapart.com/>

4 branches 0 releases 14 contributors

dev AListApart

Redirect strategy for URL hackers  
3 days ago latest commit cd89acc815

ref #68: update redirect strategy for URL hackers 3 days ago

re-position sponsor block; add exceptions to some styles to get out o... a month ago

update JS to fix broken search form on Chrome 3 days ago

update reference to footer promo images 3 days ago

Adding site assets. a month ago

Add MIT License file a month ago

Don't mind me. 11 days ago

HTTPS clone URL  
<https://github.com/alistapart/AListApart>

Clone in Desktop  
Download ZIP

st Apart

our collective toes in the GitHub waters when we open-sourced our [embeddable comments](#) script  
e've got much bigger things underway now: we're open-sourcing the code that powers  
m.

to an open-source project can be tough, and it can take time to get the hang of things. We want to  
t. If you're inexperienced with GitHub, our goal is to provide you with a great place to send your  
ll requests—to help you get comfortable contributing to a large open-source effort, participating in  
is, and reviewing code.

ibuting

xt few weeks we're going to be ramping things up around here. We're currently using  
Engine, which makes it tricky to clone the repo and run the site locally—at least, with this first  
of the repo. We're exploring ways to make that better.

y, we'd love to have your eyes on our [dev site](#), which directly mirrors our `dev` branch. Don't  
le a [new issue](#) or join us in the [issue tracker](#) if anything catches your eye.

ur conversations as we weigh the pros and cons of certain approaches, you'll be better armed to  
me decisions on your *own* projects. If you're already well-versed in the ways of GitHub we'd love to  
yes on how we'll be doing things over the next few weeks, and your help building a welcoming, low-  
ce to learn the ins and outs of contributing to an open source project.

## Website

<http://cnn.com>

## Describe the barrier

|



## Tool type

Framework

## Describe the solution

|

*“I really believe that a great way to make a successful product is to **minimize the distance** between a **user’s problem** and the person who can **solve** it. It’s a powerful thing, when it’s really working.”*

—Jeff Veen, CEO and co-founder of Typekit

News Channel 5

stlouis.craigslist.org/rnr/4337054078.html

[CL](#) > [st louis](#) > [all personals](#) > [rants & raves](#)

[prohibited](#) [?]

Posted: 7 days ago

★ **News Channel 5 (st louis)**

Why do the local tv stations make such a big deal about the weather? It's WINTER! Hello. They just had to stay on an extra hour today instead of going to the Today Show at 7am. They sure must like hearing themselves talk. Go to their website and register a complaint! Better yet, call them and tell them how u feel.

# STORYTELLING

## Mad Libs / Fill-in-the-blank

Last week we went to the farm and saw \_\_\_\_\_ pigs. The pigs were really \_\_\_\_\_. We also saw a horse. The horse was \_\_\_\_\_ when we got there. Horses eat \_\_\_\_\_ and \_\_\_\_\_.

The other animals we saw were \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. The \_\_\_\_\_ were totally \_\_\_\_\_!

Unclear link content | NewsA11y

news11y.org/barrier/unclear-link-content/

NewsA11y

Contribute Contact **Create Account** Sign in

NewsA11y > Navigation > Clear Links > Unclear link content

Cognitive

Hearing

Motor


Vision

## Unclear link content

Today, I encountered a **barrier**. I wanted to read the related content as an internal article. Instead, I encountered a barrier that I usually ignore because it's expected when I'm on my data plan instead of wifi.

THE BARRIER MADE MY EXPERIENCE

## temporarily interrupted



### Barrier outcome

In response to the barrier, I gave up on the article.


In the future, the site could improve by adding a visual indicator to tell me what I was

Can't play video | NewsA11y

news11y.org/barrier/cant-play-video/

THE BARRIER MADE MY EXPERIENCE

## unable to continue.




### Barrier outcome

In response to the barrier, I **asked someone for help**.

In the future, the site could improve this by trying to make the controls available via keyboard input.

#### Website details

Hi, there! Please [sign in](#) or [create an account](#) to view the URL.



*"It made me feel embarrassed."*

—charlietriplett

#### Technology details

Device type

Assistive technology used

- Specialized Keyboard

NewsA11y

Contribute Contact [Create Account](#) Sign in

NewsA11y > Wayfinding > Page Titles > Status in Page Title

[Cognitive](#)

[Hearing](#)

[Motor](#)

[Vision](#)

## Status in Page Title


Submitted by [emilypstewart](#) >

Mizzou GRA focused on #a11y in multimedia design. (479) born + bred. Fueled by gas

This solution is best described as a content creators will find it useful. It was created by the team at Medium

### How it works

Medium does a lovely job of helping status of a new post submission. When something, I find myself with a billion same site.

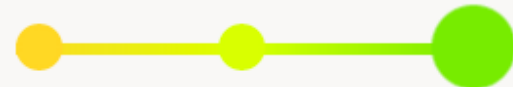
 *"I think it could accommodate cognitive impairments"*  
—emilypstewart

It's especially awesome because it is that small touch of polish that makes the UX delightful.

It's especially awesome because it is that small touch of polish that makes the UX delightful.

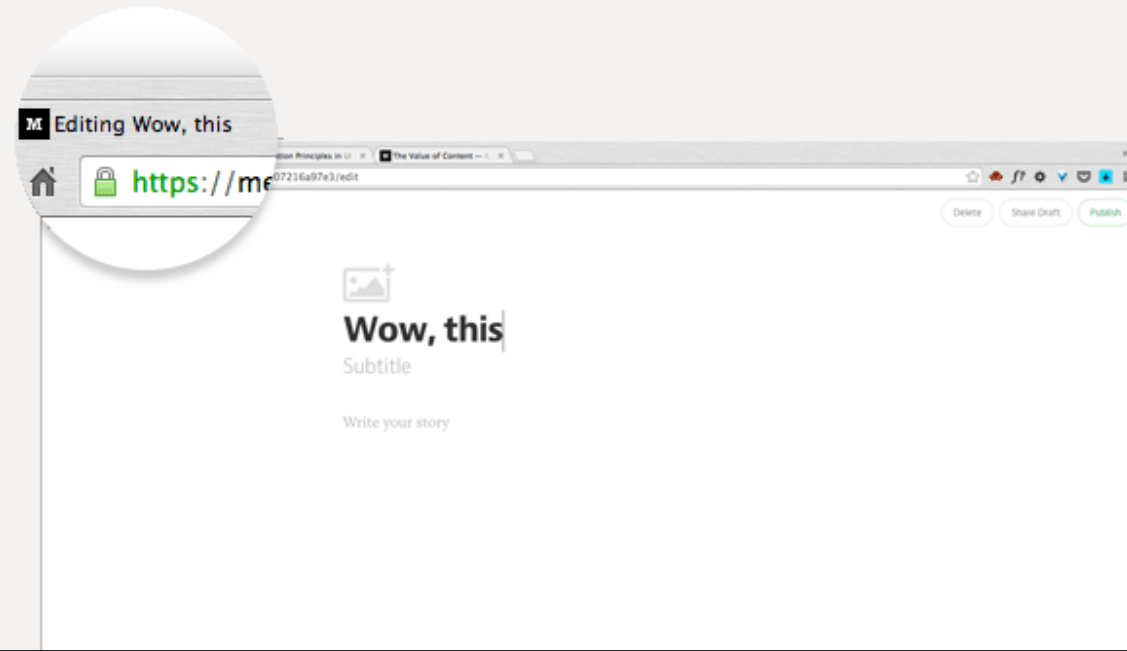
THIS SOLUTION IS

# production quality.



This solution is stable. I haven't found anything negative, yet.

Demo  
[See it live](#)  
Screenshots



# Barriers to embracing accessibility



BARRIER #1:

Accessibility is hard

## Principle 3: Understandable - Information and the operation of user interface must be understandable.

### Guideline 3.1 Readable: Make text content readable and understandable.

[Understanding Guideline 3.1](#)

**3.1.1 Language of Page:** The default human language of each Web page can be programmatically determined. (Level A)

[How to Meet 3.1.1](#)  
[Understanding 3.1.1](#)

**3.1.2 Language of Parts:** The human language of each passage or phrase in the content can be programmatically determined except for proper names, technical terms, words of indeterminate language, and words or phrases that have become part of the vernacular of the immediately surrounding text. (Level AA)

[How to Meet 3.1.2](#)  
[Understanding 3.1.2](#)

**3.1.3 Unusual Words:** A mechanism is available for identifying specific definitions of words or phrases used in an unusual or restricted way, including idioms and jargon. (Level AAA)

[How to Meet 3.1.3](#)  
[Understanding 3.1.3](#)

**3.1.4 Abbreviations:** A mechanism for identifying the expanded form or meaning of abbreviations is available. (Level AAA)

[How to Meet 3.1.4](#)  
[Understanding 3.1.4](#)

**3.1.5 Reading Level:** When text requires reading ability more advanced than the lower secondary education level after removal of proper names and titles, supplemental content, or a version that does not require reading ability more advanced than the lower secondary education level, is available. (Level AAA)

[How to Meet 3.1.5](#)  
[Understanding 3.1.5](#)

**3.1.6 Pronunciation:** A mechanism is available for identifying specific pronunciation of words where meaning of the words, in context, is ambiguous without knowing the pronunciation. (Level AAA)

[How to Meet 3.1.6](#)  
[Understanding 3.1.6](#)

### Guideline 3.2 Predictable: Make Web pages appear and operate in predictable ways.

[Understanding Guideline 3.2](#)

**3.2.1 On Focus:** When any component receives focus, it does not initiate a change of context. (Level A)

[How to Meet 3.2.1](#)  
[Understanding 3.2.1](#)

**3.2.2 On Input:** Changing the setting of any user interface component does not automatically cause a change of context unless the user has been advised of the behavior before using the component. (Level A)

[How to Meet 3.2.2](#)  
[Understanding 3.2.2](#)



## Abbreviations

5 Related Posts

---

Meaning of an abbreviation is available.

WCAG LEVEL AAA



## Language of Page

1 Related Posts

---

Every page programmatically sets the default human language attribute.

WCAG LEVEL A



## Reading Level

1 Related Posts

---

Content is readable by the average high school freshman.

WCAG LEVEL AAA



## Section Headings

1 Related Posts

---

Section headings are used to organize and break up the content.

W3C Working Group Note

W3C Understanding Success Criteria

www.w3.org/TR/UNDERSTANDING-WCAG20/navigation-mechanisms-skip.html

Understanding WCAG 2.0

Contents Intro Previous: Guideline 2.4 [Navigable] Next: SC 2.4.2 [Page Titled]

## Bypass Blocks

### Understanding SC 2.4.1

**2.4.1 Bypass Blocks:** A mechanism is available to bypass blocks of content that are repeated on multiple Web pages. (Level A)

**On this page:**

- Intent
- Examples
- Related Resources
- Techniques & Failures
- Key terms

#### Intent of this Success Criterion

The intent of this Success Criterion is to allow people who navigate sequentially through content more direct access to the primary content of the Web page. Web pages and applications often have content that appears on other pages or screens. Examples of repeated blocks of content include but are not limited to navigation links, heading graphics, and advertising frames. Small repeated sections such as individual words, phrases or single links are not considered blocks for the purposes of this provision.

This is in contrast to a sighted user's ability to ignore the repeated material either by focusing on the center of the screen (where main content usually appears) or a mouse user's ability to select a link with a single mouse click rather than encountering every link or form control that comes before the item they want.

It is not the intent of this Success Criterion to require authors to provide methods that are redundant to functionality provided by the user agent. Most web browsers provide keyboard shortcuts to move the user focus to the top of the page, so if a set of navigation links is provided at the bottom of a web page providing a "skip" link may be unnecessary.

*Note:* Although this Success Criterion deals with blocks of content that are repeated on multiple pages, we also strongly promote structural markup on individual pages as per Success Criteria 1.3.1.

Although the success criterion does not specifically use the term "within a set of web pages", the concept of the pages belonging to a set is implied. An author would not be expected to avoid any possible duplication of content in any two pages that are not in some way related to each other; that are not "Web pages that share a common purpose and that are created by the same author, group or organization" (the definition of set of web pages).

*Note:* Even for web pages that are not in a set, if a web page has blocks of text that are repeated within the page it may be helpful (but not required) to provide a means to skip over them.

#### Specific Benefits of Success Criterion 2.4.1:

- When this Success Criterion is not satisfied, it may be difficult for people with some disabilities to reach the main content of a Web page quickly and easily.
- Screen reader users who visit several pages on the same site can avoid having to hear all heading graphics and dozens of navigation links on every page before the main content is spoken.
- People who use only the keyboard or a keyboard interface can reach content with fewer keystrokes. Otherwise, they might have to make dozens of keystrokes before reaching a link in the main content area. This can take a long time and may cause severe physical pain for some users.
- People who use screen magnifiers do not have to search through the same headings or other blocks of information to find where the content begins each time they enter a new page.
- People with cognitive limitations as well as people who use screen readers may benefit when links are grouped into lists

#### Examples of Success Criterion 2.4.1

- A news organization's home page contains a main story in the middle of the page, surrounded by many blocks and sidebars for advertising, searching, and other services. There is a link at the top of the page that jumps to the main story. Without using this link, a keyboard user needs to tab through approximately 40 links to reach the main story; the screen reader user has to listen to 200 words; and the screen magnifier user must search around for the location of the main body.

#### Related Resources

Resources are for information purposes only, no endorsement implied.

- [Quick tips for accessible headings](#)

#### Techniques and Failures for Success Criterion 2.4.1 - Bypass Blocks

Each numbered item in this section represents a technique or combination of techniques that the WCAG Working Group deems sufficient for meeting this Success Criterion. [begin change]However, it is not necessary to use these particular techniques. For information on using other techniques, see

Bypass Blocks | NewsA11y

news11y.org/category/navigation/bypass-blocks/

NewsA11y

Contribute Contact [Create Account](#) Sign in

NewsA11y > Navigation > Bypass Blocks

- Cognitive
- Hearing
- Motor
- Vision

# Bypass Blocks

Users can skip blocks of content that are repeated on multiple webpages.

WCAG LEVEL A

## Skip to Content

3 Related Posts

Create links that skip directly to the main content area.

WCAG LEVEL A

## Skip to Links

2 Related Posts

Create links to skip blocks of repeated material.

WCAG LEVEL A

BARRIER #2:

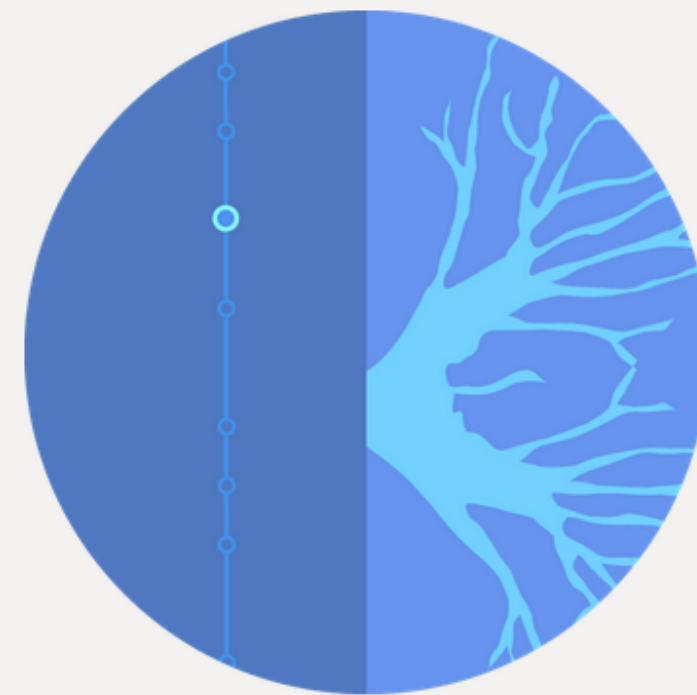
Disability means blind

Cognitive

Hearing

Motor

Vision



## Cognitive Port

When we create harmonic patterns, it leads to greater understanding by all.



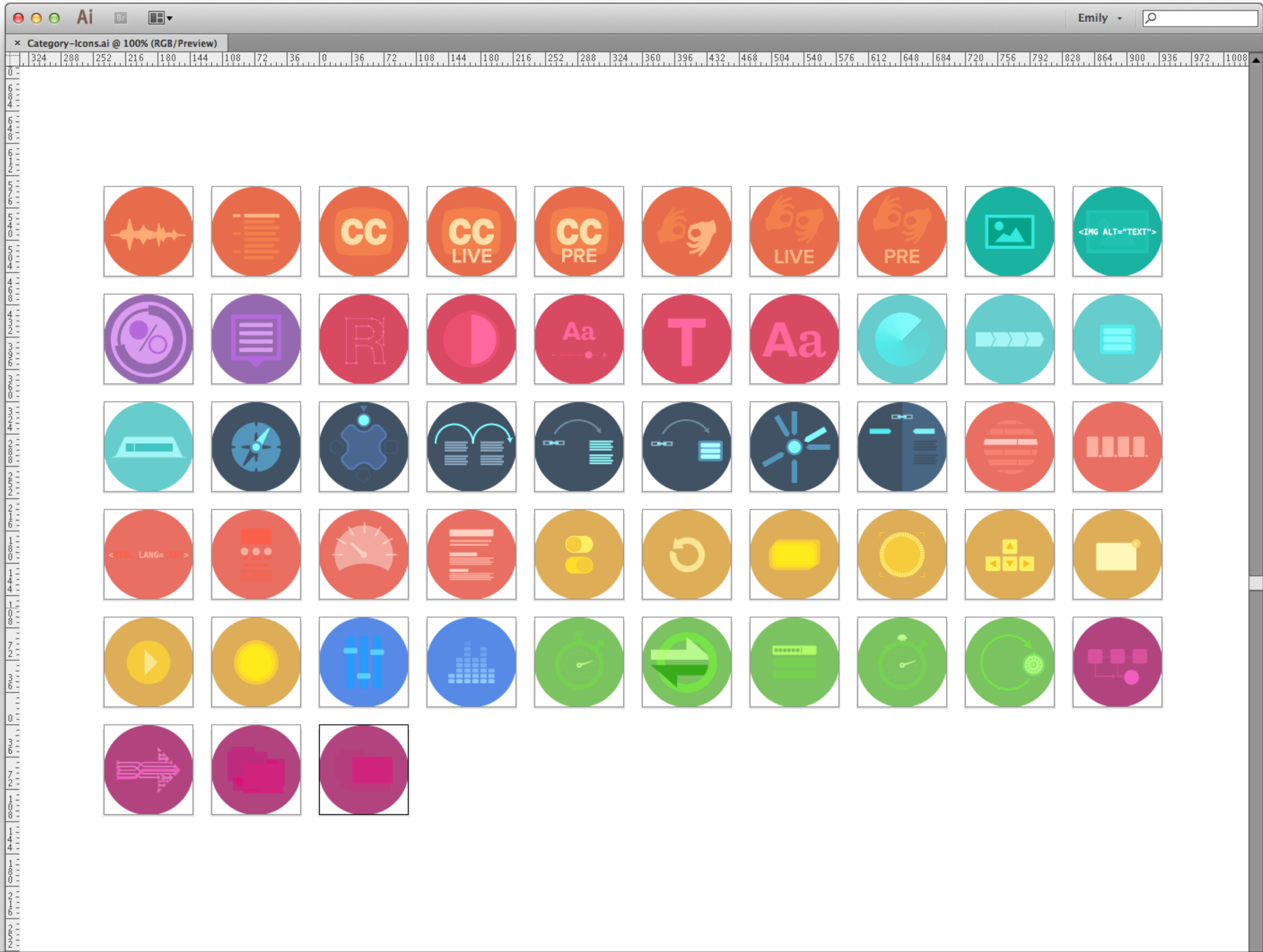
### Audio Alternatives

4 Related Posts

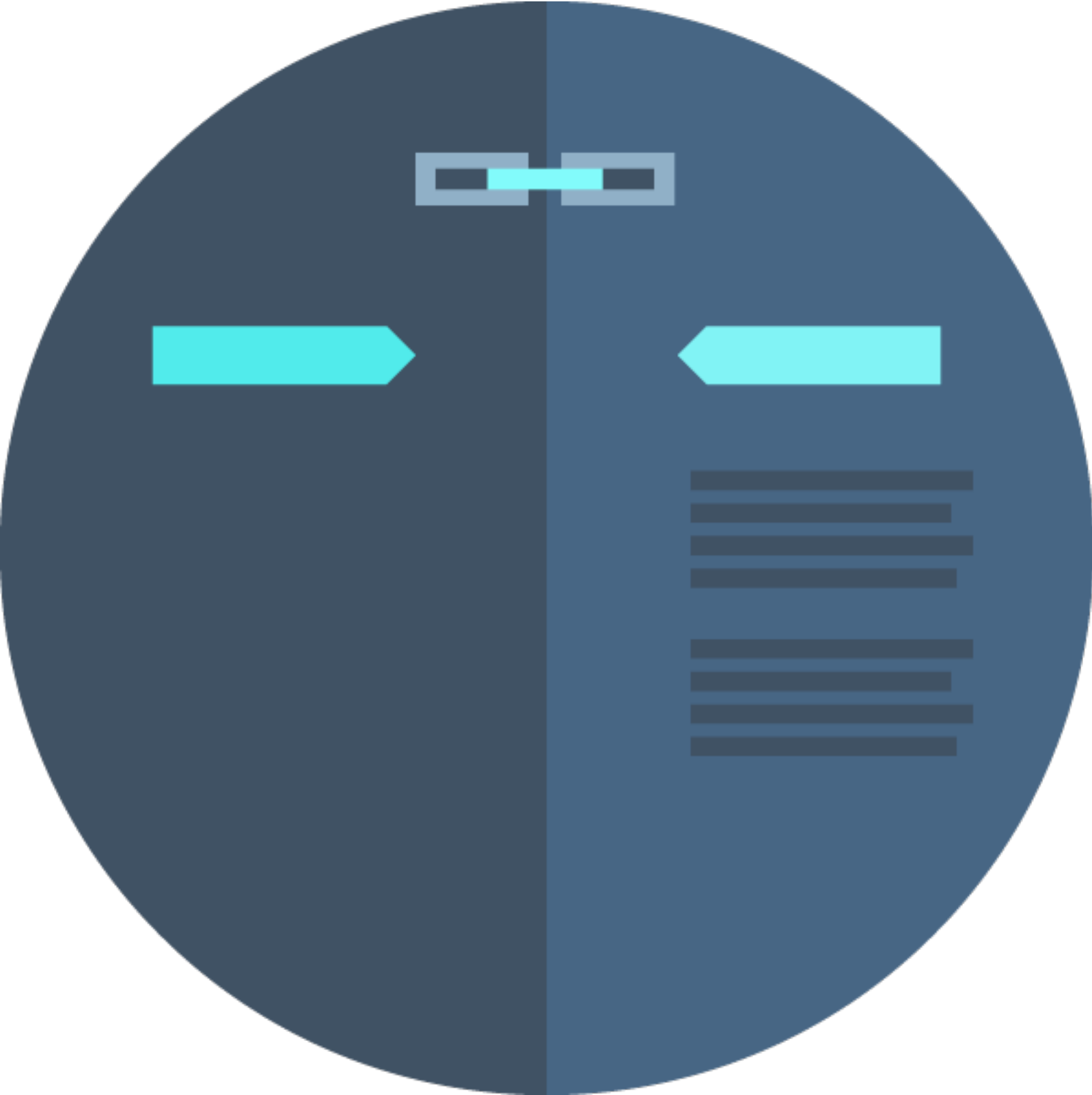
Non-text content is provided in an alternative text format so that it can be modified to users' needs (e.g., large print,

BARRIER #3:

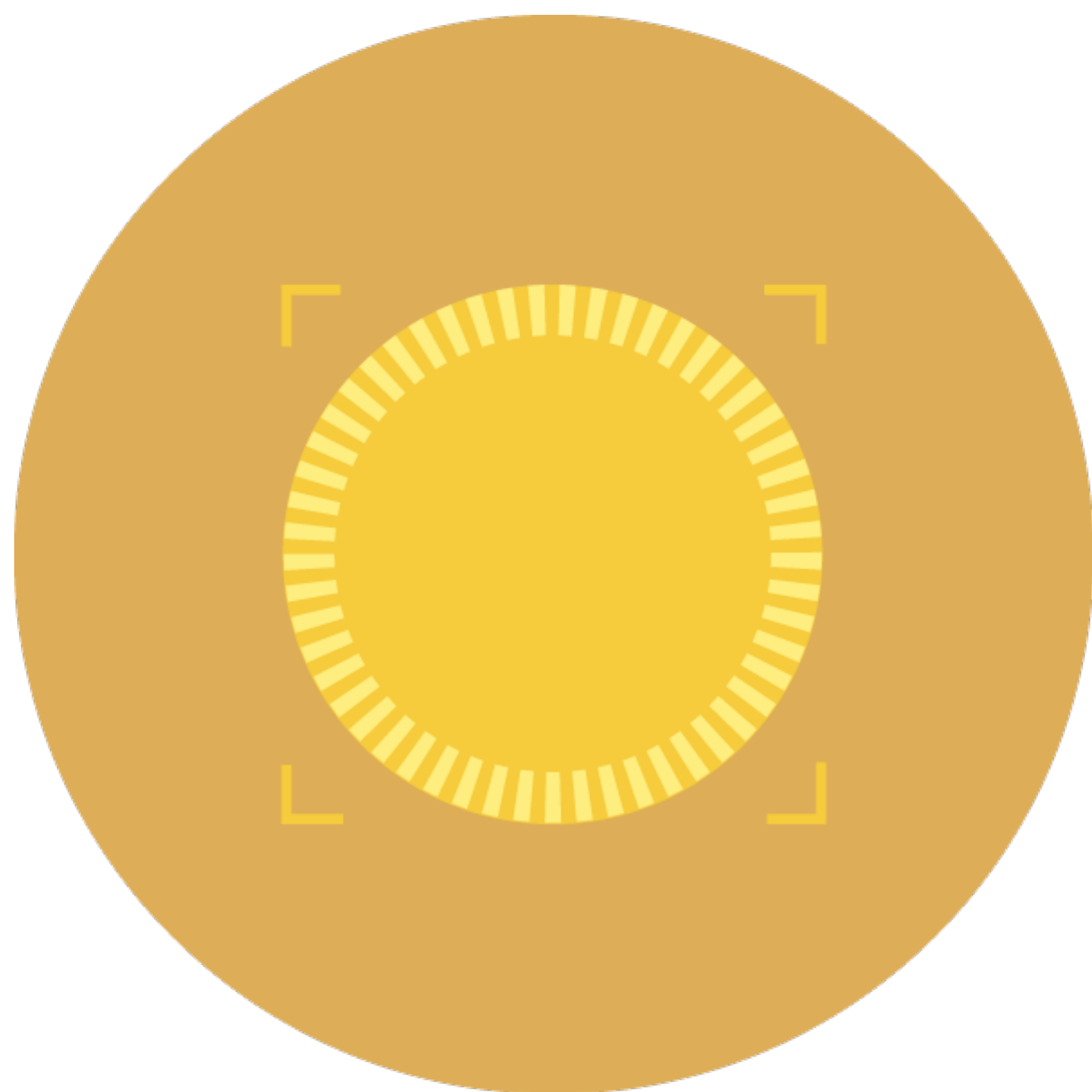
Accessibility and creativity

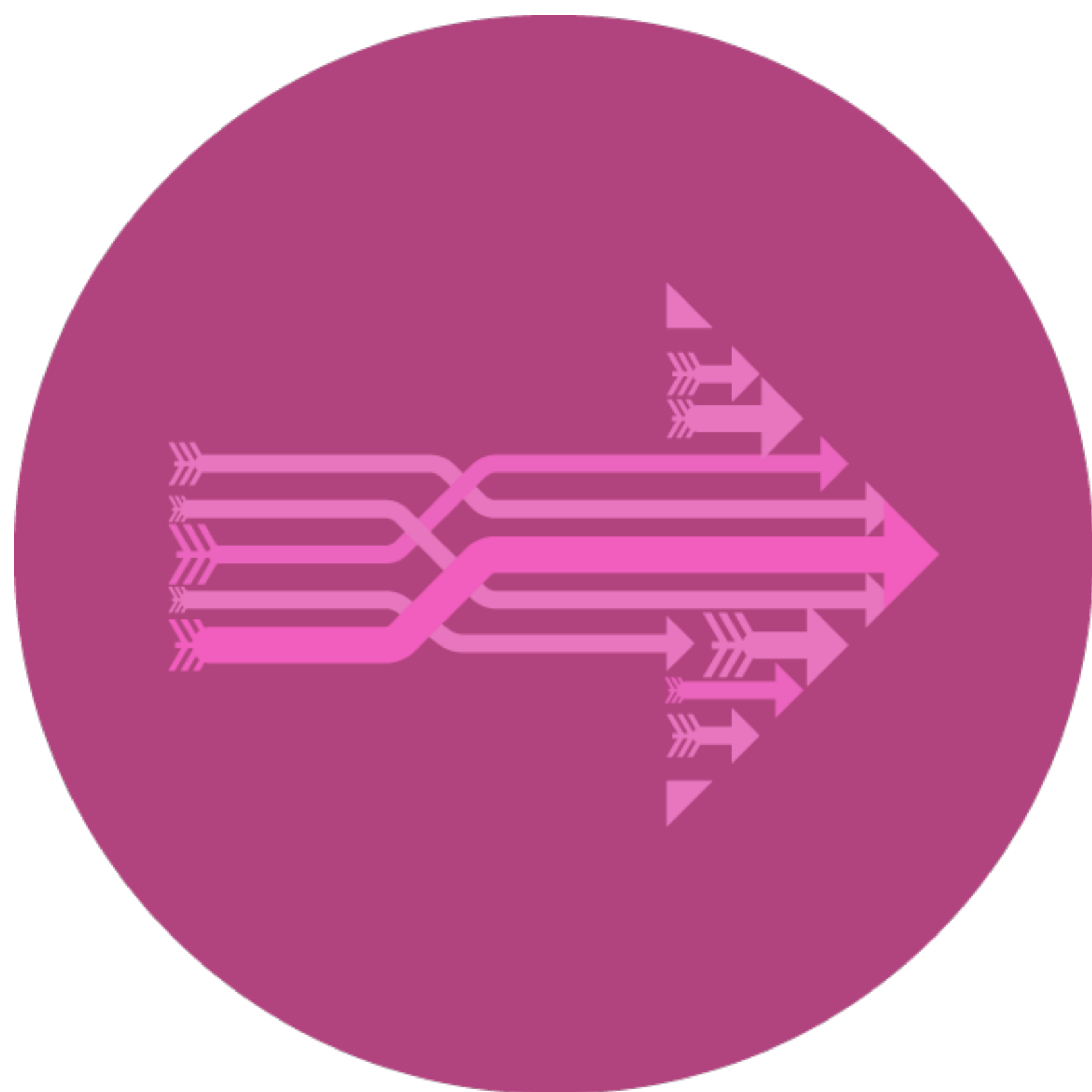










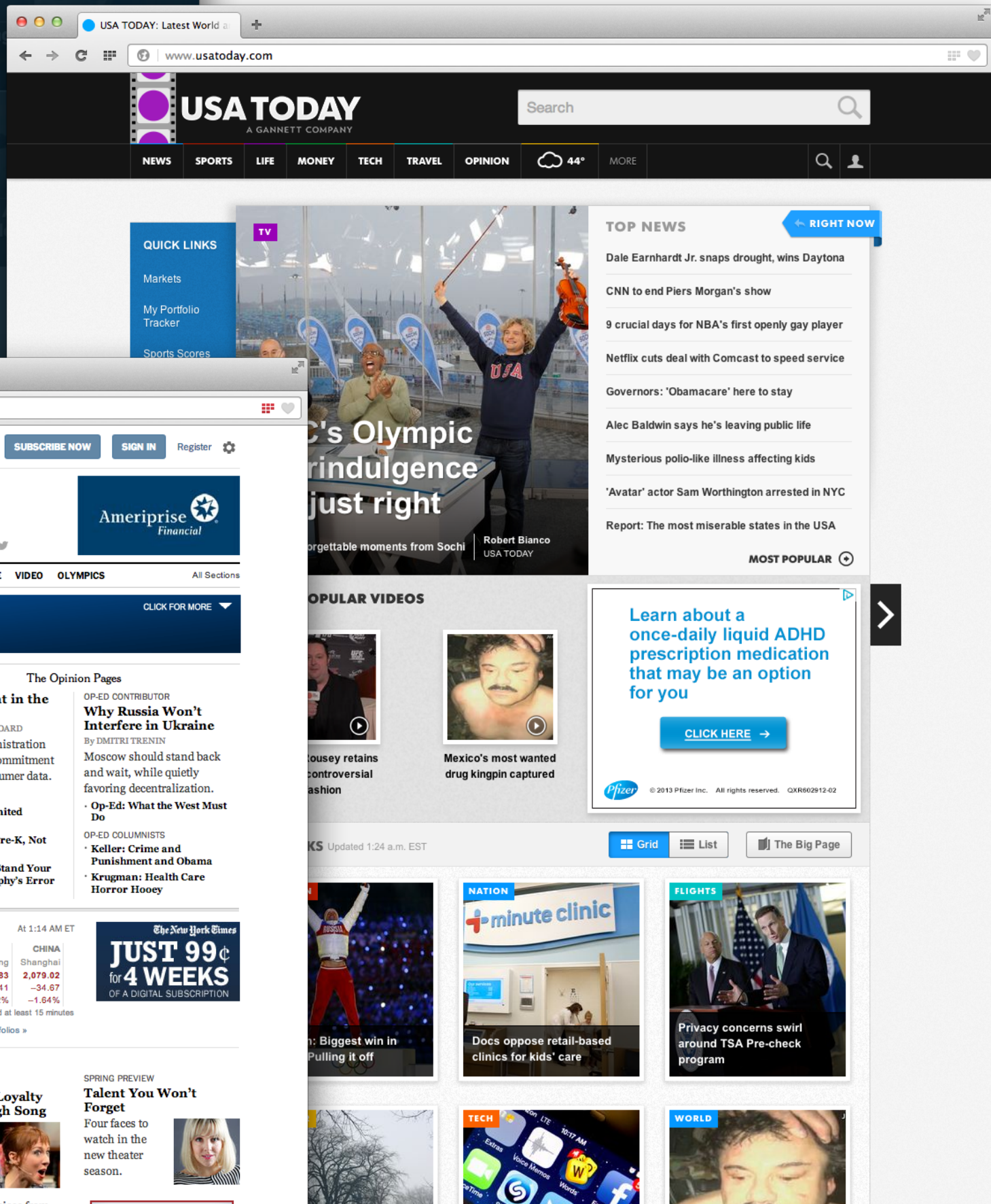
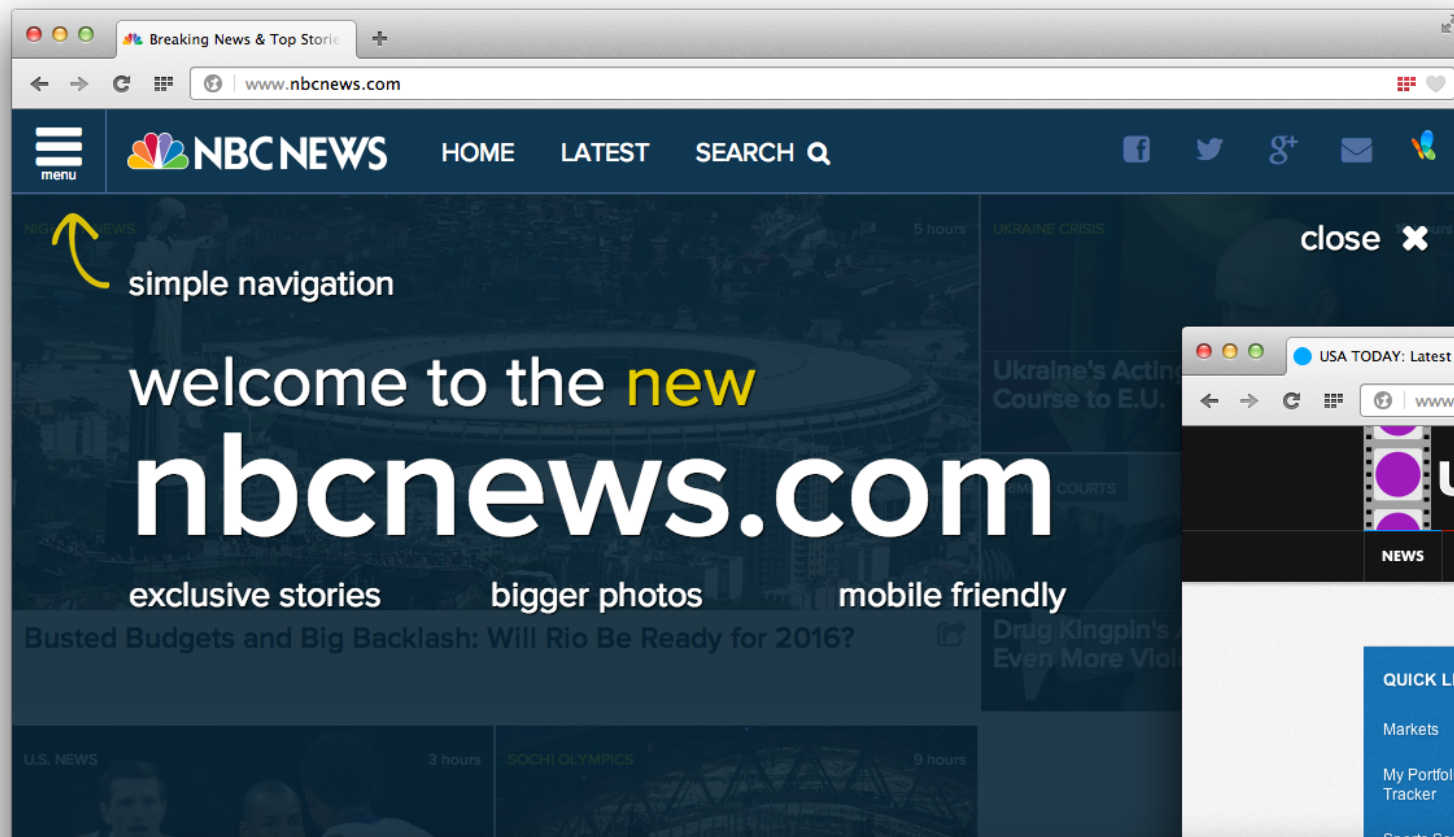


BARRIER #4:

Amateur versus expert

ACCESSIBLE FIRST DESIGN

Better experience for all



Redesigned in  
the past year.

55 MILLION SOLUTIONS

**NewsA11y**



DEMO