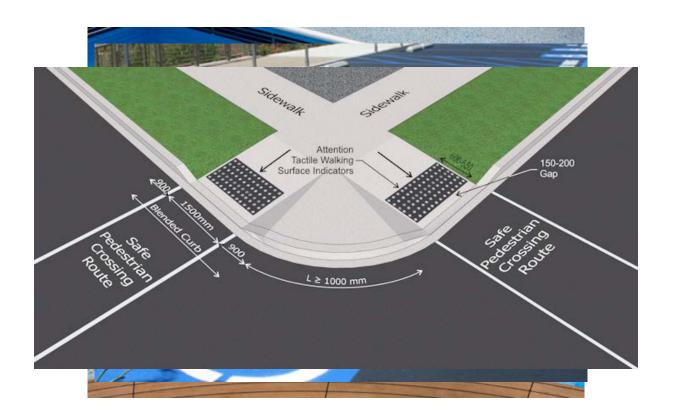


Apps for Maps & Accessibility

Michael Funaro

Latitude Geographics



Search RI Government

Q

Policies

Accessibility Policy

Web Standards for Universal Accessibility

It is the policy of the State of to ensure that people with hearing, visual and other disabilities have equal access to public information that is available on the Internet and the World Wide Web. It is the direct responsibility of the agency and its web page developers to become familiar with the guidelines for achieving universal accessibility and to apply these principles in designi State of Rhode Island Portal.

It has been estimated that 54 million people or 20.6 % or an Americans have some level of disability. This is a large segment of society waiting for opportunities to interact with all levels of government.

Estimates indicate that 95-99 percent of all Web sites are inaccessible at some level. These statistics are staggering considering the number of sites that come online, by the end of the year - 25 million and by the year 2002, one hundred million. To date there have been no formal complaints filed against a governmental agency under the ADA of 1990. The use of the guidelines below will ensure that Web sites created by the State of Rhode Island are developed to serve the largest possible audience. Following these guidelines will also provide an added benefit to those users with text-based browsers, slow(er) modem connections and/or no multi-media capabilities on their computer.

The Access Board (the federal board assigned to create Section 508 standards) used the W3C Web Accessibility Initiative guidelines as the benchmark for developing their standards.

Polices:

Accessibility Policy

Cookies Policy

Copyright Policy

Disclaimer Policy

Legal Notices

Links Policy

Privacy Policy

Security Policy

Section 508

United States Federal Government: Section 508 Requirements



"Section 508" is actually an amendment to the Workforce Rehabilitation Act of 1973

Requires that electronic and information technology
that is developed by or purchased by <u>Federal Agencies</u>
be accessible by people with disabilities



 Does not directly apply to private sector or public sites that are not U.S. Federal Agency sites or do not receive Federal Funding or grants

WCAG 2.0

Web Content Accessibility Guidelines (WCAG) are

part of a series of web accessibility guidelines

published by the Web Accessibility Initiative (WAI) of

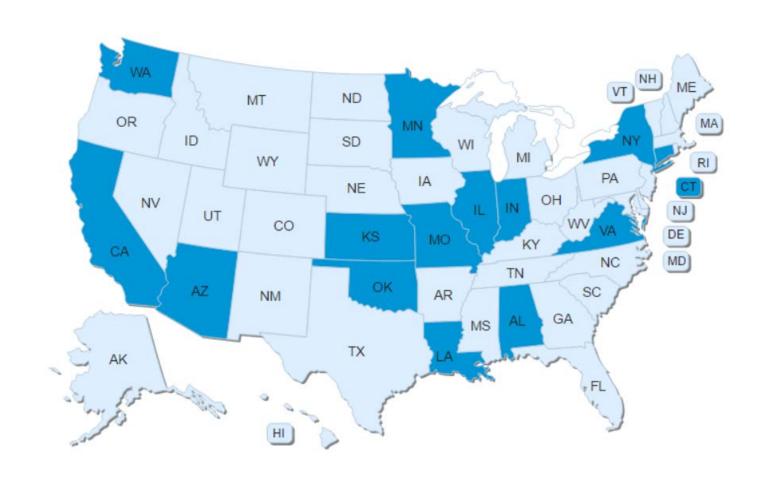
the World Wide Web Consortium (W3C), the main

international standards organization for the Internet.

Where does your State or Local Government stand?



State IT and Accessibility Laws



Accessible New York

New York City Mayor de Blasio signs legislation

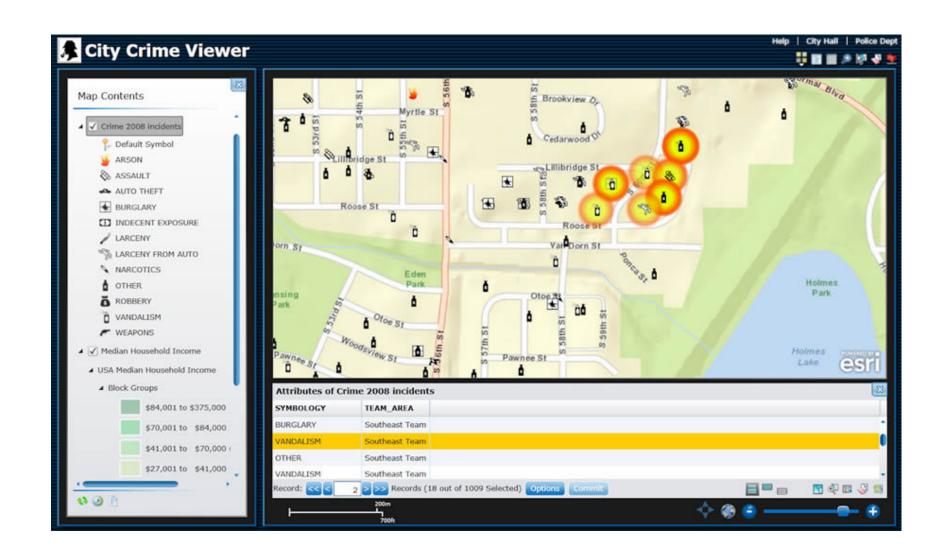


- Adoption of a protocol for website accessibility
- Based on Section 508 and WCAG 2.0

Bill 683-A

Serving Everyone





with research and development

Organized

our Domains within the W3C, with two Activ

hnical Activity

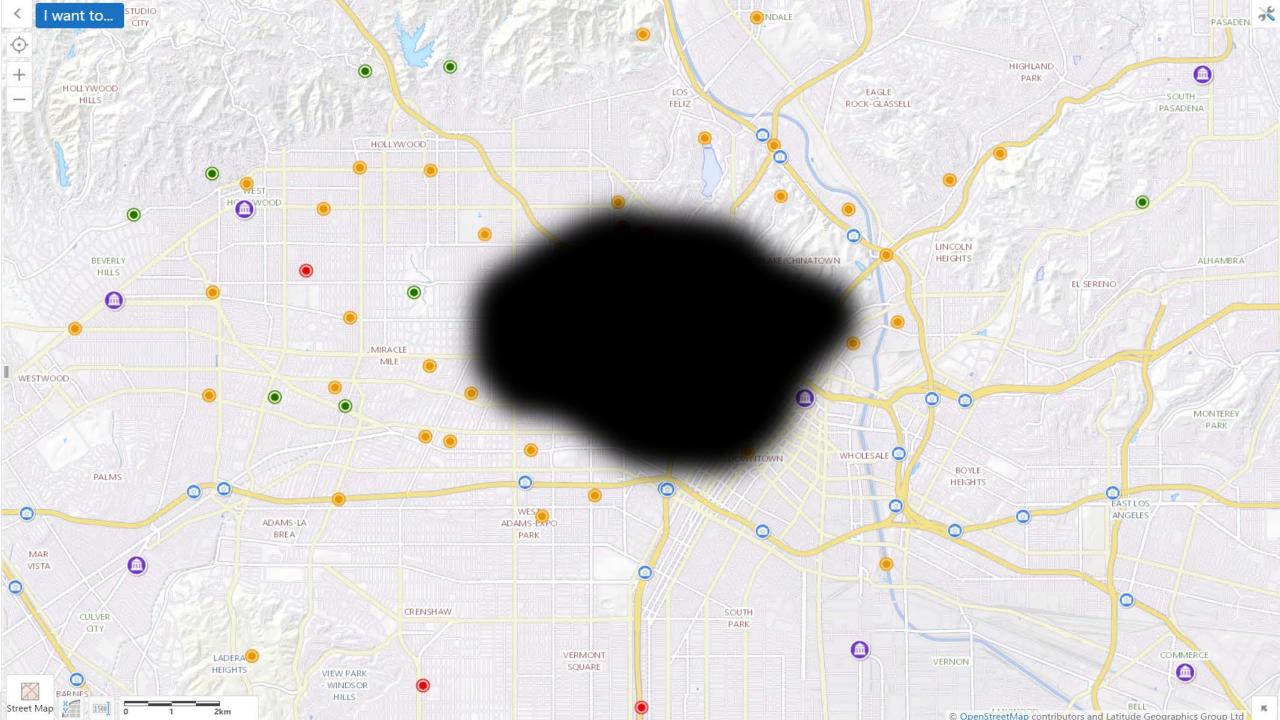
otocols and Formats Working Group (PFV

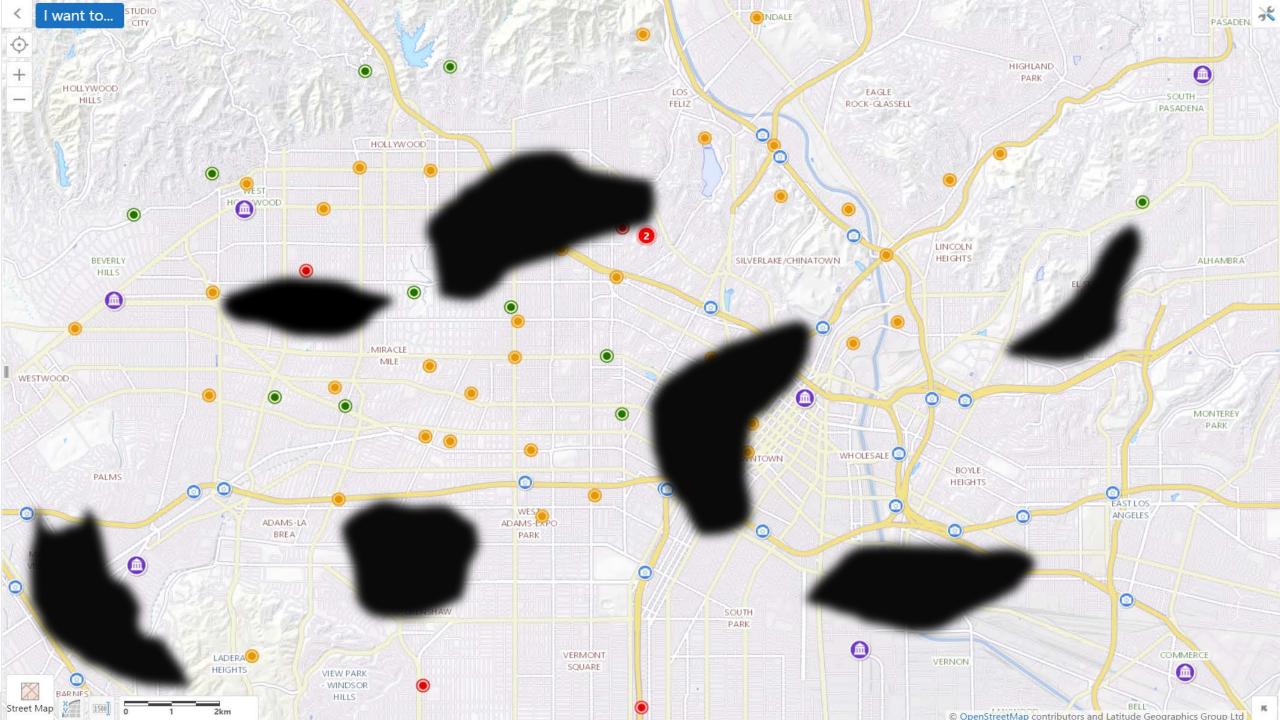
Content Accessibility Guidelines Wo

oring Tool Accessibility Guideline

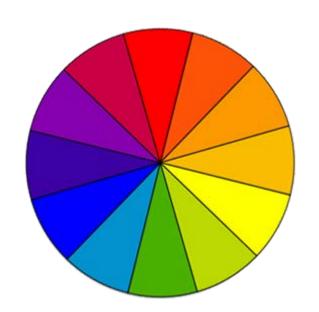
ent Accessibility Guideline

MLRanair Tool

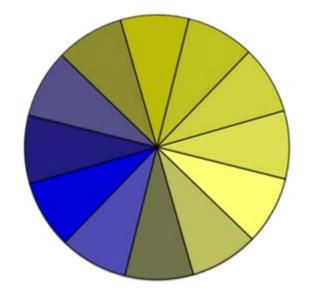




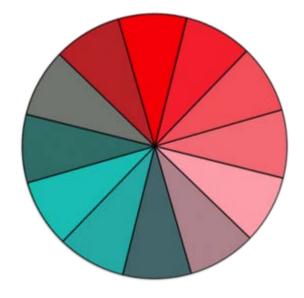
Simulated Examples of Color Blindness



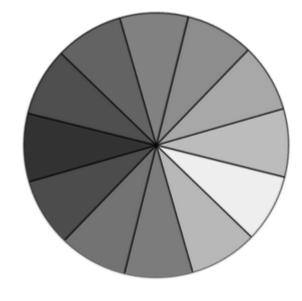
Full Color Perception



Red-Green Color Blindness

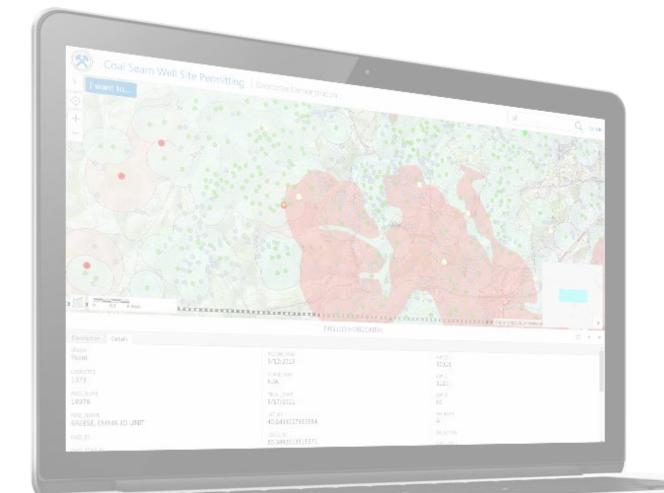


Blue-Yellow Color Blindness



No Color Perception (*rare*)

How do we build web accessible mapping applications?



Geocortex Accessibility Module



Keyboard Controls

General Keyboard Shortcuts

The HTML5 Viewer uses standard shortcuts to navigate the page

General Keyboard Shortcuts for Accessibility

To do this...

Move slider

Jump slider

Navigate forward through the page's components Navigate backward through the page's component select or activate the current UI component select checkbox Pan the map (if selected)

Jump slider to the start or end

HTML5 Viewer Keyboard Shortcuts

The HTML5 Viewer has its own shortcuts for working with sh tools that require the user to manipulate a shape on the map,

HTML5 Viewer Keyboard Shortcuts for Accessibility

To do this...

Add a vertex to the shape that you are creating

Movevertex horizontally or vertically

Movevertex diagonally

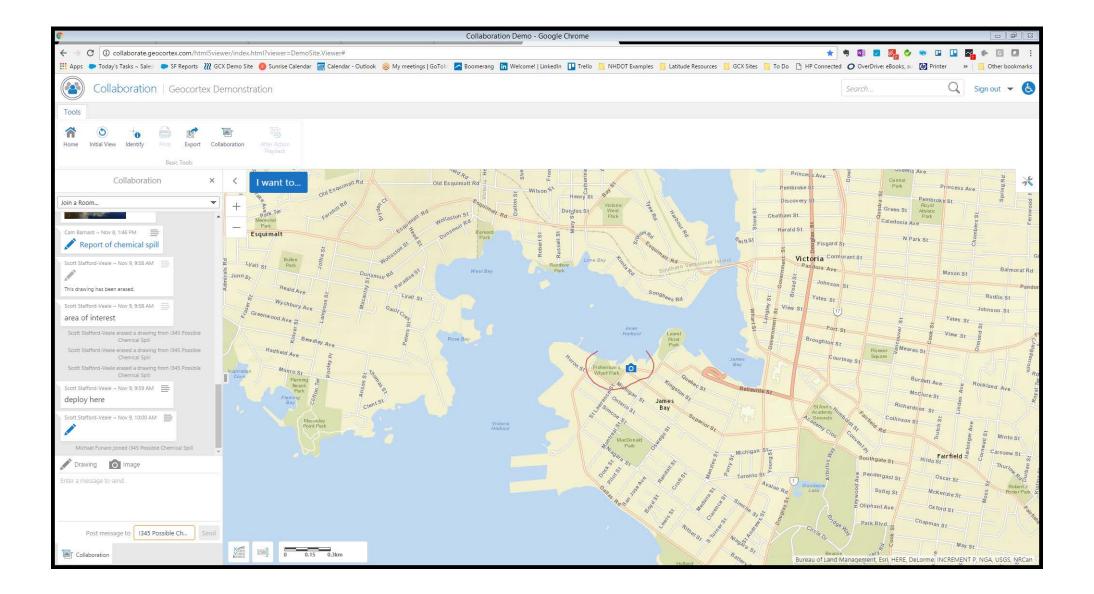
Arrow keys

HOME; END

PAGE UP; PAGE DOWN

Move the selected shape horizontally or vertice

To do this	S _{eas}	Press	
Move th	e selected shape diagonally	PAGE UP; PAGE DOWN; HOME; END	
Enlarge	the selected shape uniformly	S S	
Reduce the selected shape uniformly Rotate the selected shape to the right Rotate the selected shape to the left Complete the shape		SHIFT+S	
		SHIFT + R	
Enter vertex editing mode		ENTER, ENTER (press ENTER twice)	
Select	the next vertex of the current shape (in editing mode)	V	
	ande) switcht shape (in	V	
ally Arrow Keys			



Screen Readers





JAWS (Windows)

NVDA (Windows)

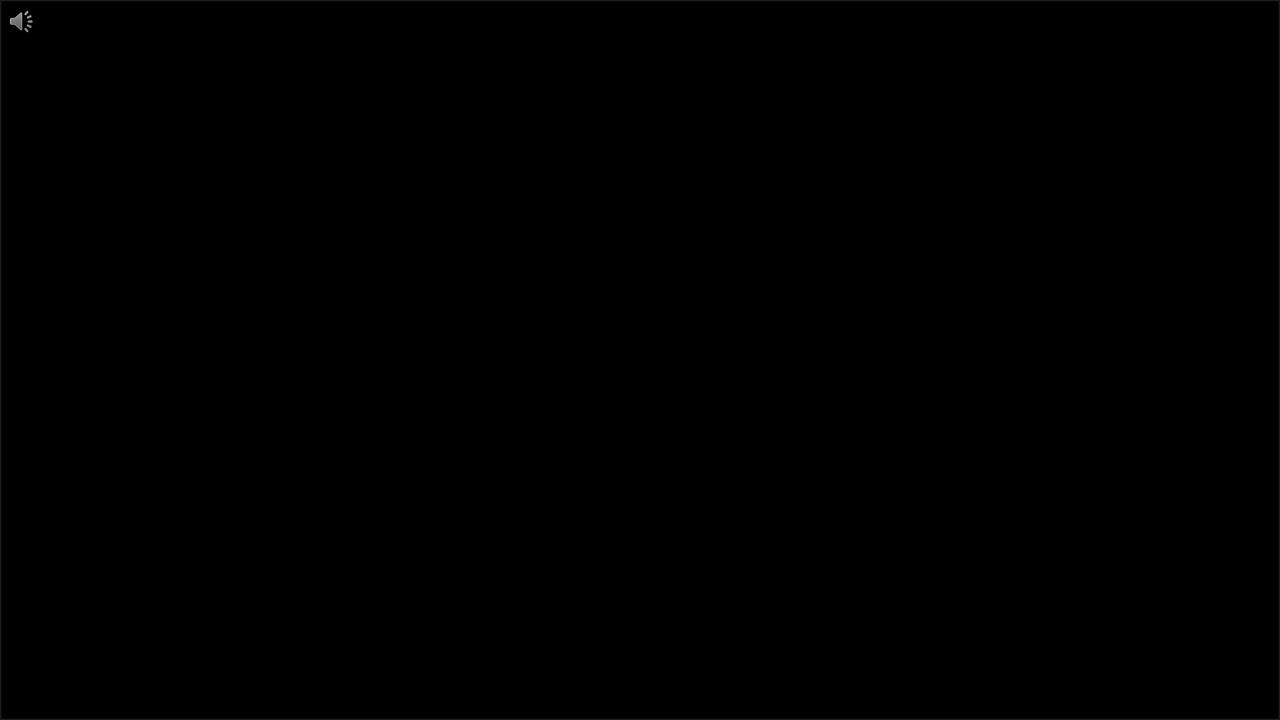




ChromeVox



Voice Over (Mac/iOS)



What can you do?



Semantic HTML: Give meaning to structure

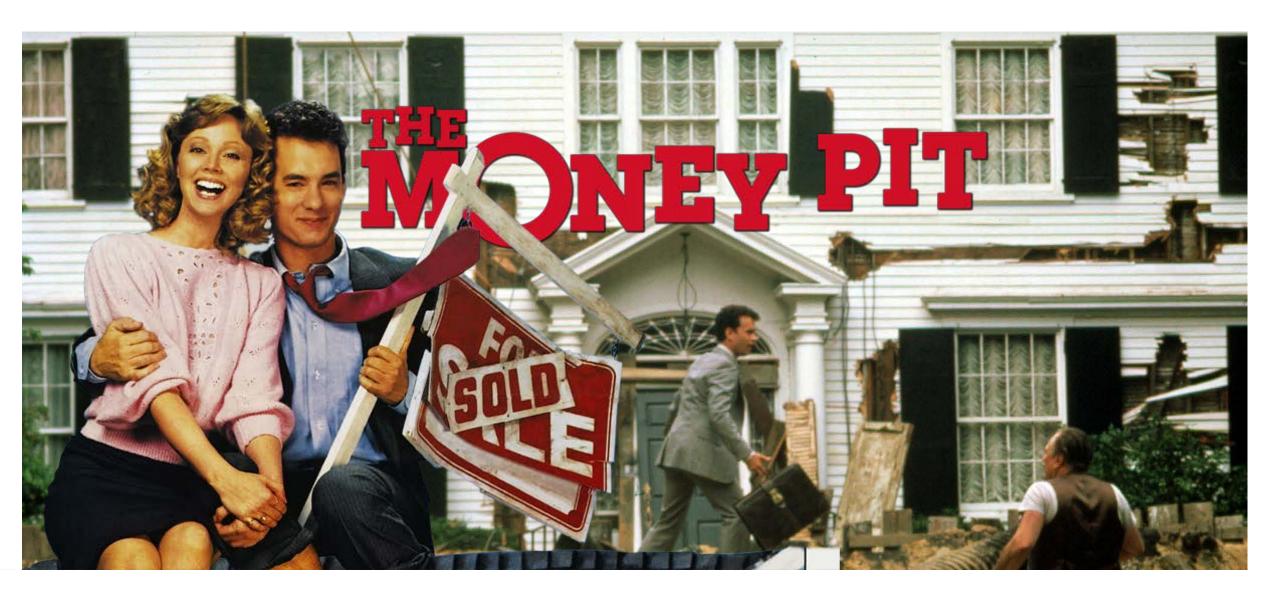
Tips to improve semantics:

- 1. Don't use <div> and for everything
- 2. Links to other web pages or URLs should be an anchor <a> tag
- 3. Links that perform an action or command are best implemented with <button> tags
- 4. Use standard HTML form elements (<select>, <input type="submit">, etc.)

SEMANTICS



What does it cost?



Web Accessibility Litigation

W-	r Dlain	Year	Plaintiff(s)	Defendant(s)	Citation
Year 2015	Year 2015	2015	Access Now Inc., Michelle Sipe, Jill Gross and R. David New	Ace Hardware	http://pennrecord.com/stories/510652975-nonprofit-sues-ace-hardware-corp-claiming-failure-to-comply-with-disability-regulations
2015	2015	2015	US Dept. Of Education	Argyle Independent School District	http://www2.ed.gov/about/offices/list/ocr/docs/investigations/more/06141592-b.pdf
	2015	2015	NFB, et al.	Atlantic Cape Community College	https://nfb.org/national-federation-blind-and-two-blind-students-resolve-complaint-against-atlantic-cape-community
2015		2015	Ashley Cwikla	Bank of America	http://lflegal.com/2015/06/bofa-travel-agreement/
2015	2015	2015	US DOJ	Carnival	http://www.ada.gov/carnival/carnival_sa.html
2015	2015	2015	US DOJ	Champaign County, IL	http://www.ada.gov/champaign_pca/champaign_sa.html
2015	2015	2015	US DOJ	Chaves County, New Mexico	http://www.ada.gov/chaves_county_pca/chaves_sa.html
2015		2015	US DOJ	City of Cedar Rapids, IA	http://www.ada.gov/cedar_rapids_pca/cedar_rapids_sa.html
2015	2015	2015	US DOJ	City of Dekalb Illinois	http://www.ada.gov/dekalb_il_sa.html
2015	2015	2015	US DOJ	City of Fallon, NV	http://www.ada.gov/fallon_nv_sa.html
2015	2015	2015	US DOJ	City of Galveston, TX	http://www.ada.gov/galveston_tx_pca/galveston_tx_sa.html
2015		2015	US DOJ	City of Parowan, UT	http://www.ada.gov/parowan_sa.html
2015	2015	2015	US DOJ	City of Ruidoso, NM	http://www.ada.gov/ruidoso_sa.html
2015	2015	2015	US DOJ	City of the Isle of Palms, SC	http://www.ada.gov/isle_palms_sa.html
2015	2015	2015	US DOJ	City of Vero Beach, FL	http://www.ada.gov/vero_beach_sa.htm

Web Accessibility Makes it Better



Founder of World Wide Web

-Tim Berners-Lee

Better for...

- Brand Reputation
- Ability to meet the needs of an aging market
- Search Engine Optimization (SEO)
- Mobile devices and tablets
- Reduces litigation risk



Thank You!

mfunaro@latitudegeo.com

