CSS Word Cloud

Web patterns: separation of concerns, DRY, high cohesion

A word cloud is a visual representation of textual data, usually related to the frequency of the occurrence of a term, the term's recency, or some other importance metric. A word cloud provides a succinct visual summary of potentially large amounts of aggregate data. In this exercise, you will use CSS to format a word cloud that I created for my UWG Web site.

- 1. Begin by downloading today's assignment package and extracting the contents.
- 2. Initialize a new Mercurial repository in the folder you created.
- 3. Create an empty text file called cloud.css.
- 4. Add the CSS and the HTML files to the project and perform the initial commit.
- 5. Open **cloud.html** in your Web browser. Notice that our "cloud" is just a long string of words in alphabetical order. Normally, a word cloud uses font size, color, or distance to represent the importance of terms; at the moment, our cloud tells us nothing about which words are important.
- 6. Open cloud.html in your text editor. Observe that each word in the cloud is surrounded by an XHTML span element and that the entire cloud is contained in a div. These elements give us access to the content of the document from our CSS enabling us to apply styles at various levels. Also notice that each term is in a class, cloud-#, where # is the importance of the term, 0 being the least important and 5 being most important in this cloud.
- 7. Link the stylesheet to the XHTML document. THIS IS THE ONLY CHANGE YOU SHOULD MAKE TO THE XHTML! In the CSS file, add a border around the cloud to make sure your stylesheet is properly linked.
- 8. Save and commit your work.
- 9. Next, change the font size of the cloud's words so that the most important words (5) are the largest and the least important words (0) are the smallest. You may have to play with the sizes a bit to find a harmonious balance.
- 10. Save and commit your work.
- 11. Use CSS to manipulate the whole cloud:
 - change the width of the cloud to something less than the size of the whole page
 - justify the text inside the cloud
 - adjust the cloud's margins and padding
 - center the cloud on the page
- 12. see if you can come up with other ideas for ways to style your cloud; for example, here is my (potentially) finished version:

Fie Edit Yew Highty Bookmarks Tools Highty	ng cloud - Mozilla F	refox		×
C × ☆ (Edit View History	Bookmarks Tools Help		0
(Untitled) Choosen: Dr. Dobb's [CSS: center tag cl 2 itag doud tag doud Sumatra PD CSS Tag Co. accepts access alice application appropriate associated attach available backend basics caveat characters click code command computer configuration console contiguous correctly daniel data defined defines desktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions geturisting greeting helio image implementation import importing information interface interpreter into introductory its java jython libeary loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources retures return rocco Script Scripting Scripts significant someone source	- C ×		🗘 🔸 🖸 tag doud	P
accepts access alice application appropriate associated attach available backend basics caveat characters click code command computer configuration console contiguous correctly daniel data defined defines desktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions genatstring greeting hello image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources retrieves return rocco Script Scripting scripts significant someone source) (Untitled)	hodopsin: 📄 Dr. Dobb's (📄 CSS: centeri 📄 tag d 🔯 📄 tag doud 📄 tag doud	Sumatra PD	o
accepts access alice application appropriate associated attach available backend basics caveat characters click code command computer configuration console contiguous correctly daniel data defined defines desktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions genutstring greeting hello image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources retrieves return rocco script scripting scripts significant someone source				
accepts access alice application appropriate associated attach available backend basics caveat characters click code command computer configuration console contiguous correctly daniel data defined defines deaktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions geturisting greeting hello image implementation import importing information interface interpreter into introductory its java jython fibrary loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter pressurers program programming projects provides python recent release resources retrieves return rocco script scripting scripts significant someone source				
characters click code command computer configuration console contiguous correctly daniel data defined defines desktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions getadstring greeting hello image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python racent release resources retrieves return rocco Script scripting scripts significant someone source		alice		
characters click code command computer configuration console contiguous correctly daniel data defined defines desktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions geturisting greeting hello image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources retrieves return rocco Script scripting scripts significant someone source		accepts access direct application appropriate associated attach available backend basic	cs caveat	
defines desktop disabled displays document download dragon drocco edit editor enable enabling encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions getudstring greeting hello image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources return rocco script scripting scripts significant someone source		characters click code command computer configuration console contiguous correctly daniel dat	ta defined	
encountered entire environment error executed explorer expression feature file files filesystem financial folder folders following footer function functions genutstring greeting hello image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources retuieves return rocco script scripting scripts significant someone source		defines desktop disabled displays document download dragon drocco edit editor enable	enabling	
folder folders following footer function functions geturtsteing greeting helio image implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources returns record Script Scripting scripts significant someone source		encountered entire environment error executed explorer expression feature file files filesystem	n financial	
implementation import importing information interface interpreter into introductory its java jython library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters program programming projects provides python recent release resources returns reco script scripting scripts significant someone source		folder folders following footer function functions geturtstring greeting helic	o image	
library loaded module modules names natlink naturallyspeaking network networking not objects opens pages parameter parameters programming projects provides python recent release resources return rocco script scripting scripts significant someone source		implementation import importing information interface interpreter into introductory its jay	va jython	
objects opens pages parameter parameters program programming projects provides python recent release resources retuieves return rocco script scripting scripts significant someone source		library loaded module modules names natlink naturallyspeaking network network	ing not	
release resources return rocco script scripting scripts significant someone source		objects opens pases parameter parameters program programming projects provides pytho	on recent	
terese resources remeves retain rocco berrier berriering scripts significant someone source		relevant sections return and script scripting sections		
many standards and a set of a		resse resources reasons rotant toos berrie berrie the sources and the sources	ne source	
spaces stored students supports ave avaithing symbols symbols symbols takes technologies text tips the trial tricks		spaces stored students supports ave awithing symbols synholically synhol takes incheologies DEXL tips the	enal tricks	
nied undefined understanding untique university unless unlike unmodified update unit used useful users uses		nied undefined understand understanding utilique university unless unlike unmodified update und unability used useful i	user uses	
using use which values writh version via vocata was whatever otherwor windows within without words working		using use with values with vesion via vecola web wherever whenever windows without wer	rds working	
worlds ant		worlds ant		

Turn In

- i. If you haven't already done so, save and commit your work a final time.
- ii. Use 7-zip to archive your project. Name the zip file $\verb"YourName_cloud.zip"$
- iii. Verify that the zip file contains the Mercurial repository and your project files.
- iv. Upload the zip file to the course web.

Just For Fun

Check out Wordle: http://wordle.net