## Web Design Tools and Planning Principles

l.	A	is the channel between the
	sender and a receive	er.
2.	Some computer net	
	a	type of network wire
		through the air
	C	using glass
	d	long distance tower to tower
	e	in space
		for phones
3.	-	iters on a network are
		_ and
ŀ.	A LAN is	
<b>.</b>	A WAN is	
•	Intornat Addrassas	
	Internet Addresses	
L.	IP stands for	
]. 2.	IP stands for An example of an IP	address looks like
]. 2. 3.	IP stands for An example of an IP DNS stands for	address looks like
2. 3.	IP stands for An example of an IP DNS stands for URL stands for	address looks like
l. 2. 3. 4.	IP stands for An example of an IP DNS stands for URL stands for A DNS server does v	address looks likevhat?
]. 2. 3. 4.	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have top level domestic to	what?ain names stand for what?
). ). ).	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have top level doma. Com a. Com a.	what?ain names stand for what?
). ). ).	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have top level dom a. Com b. edu	what?ain names stand for what?
]. 2. 3. 4.	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have top level dom a. Com b. edu c. org	what?ain names stand for what?
]. 2. 3. 4.	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have top level dom a. Com b. edu c. org d. net d.	what?ain names stand for what?
	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have top level dom a. Com b. edu c. org d. net e. gov	what?ain names stand for what?
	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have too level domma. Com b. edu c. org d. net e. gov Use https://who.is to the data and the	what?ain names stand for what?
2. 3. 4. 5.	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have to plevel dom a. Com b. edu c. org d. net e. gov Use https://who.is to belong to.	what?
). ). ).	IP stands for An example of an IP DNS stands for URL stands for A DNS server does with the set of level dom a. Com b. edu c. org d. net e. gov Use <a href="https://who.is tobelong to.">https://who.is tobelong to.</a> a. 68.180.131.1	what?
	IP stands for An example of an IP DNS stands for URL stands for A DNS server does we have too belong to.  a. Com b. edu c. org d. net e. gov Use https://who.is to belong to.  a. 68.180.131.1 b. 69.171.239.1	what?

## **Domain Name Exercise**

- 1. Go to www.godaddy.com
- 2. Check to see if you can register a domain name for you own name such as www.andewhopkins.com or www.joebrown.org

  3. What would it cost to register a .com or .org name?

A03 Internet	Packets and	Routina
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		0 0
3 <i>I</i> i	nterne	t Packets and Routing
1.	A divi	sion of pieces of data sent independently is a
2.		ket has two main parts: and
		ns to split data into packets:
4.	The co	omputer on a network that connects the organization outside is called either a
	or a _	
5.	What	does a fault tolerant network design allow for?
6.	Three	problems with packet delivery
	b.	
	C.	
7.	What	does the name lookup service do?
8.	Use _	to see if a server is turned on
		onnected to the network.
9.	A	attack tries to
		helm a server with too many requests from too man
	clients	5.
10	. A	shows you which
		rs are being used to connect two different computers
11	. Go to	http://who.is and find the statistics for cnn.com
		How many DNS servers do they have?
	b.	When was the domain name registered?
		When will the domain name expire?
		(Be ready to register the name if they forget to
		renew!)

d. What city is the company located in?	2. A provides a server,
B1 World Wide Web	software and connectivity for your website.  3. FTP stands for  4. Read <a href="http://www.sitepoint.com/5-most-popular-frontend-">http://www.sitepoint.com/5-most-popular-frontend-</a>
<ol> <li>The is much larger than the</li> <li>HTML stands for</li> <li>Name four brand names of web browsers         <ul> <li>a</li> <li>b</li> </ul> </li> </ol>	frameworks-compared/ Some Web Development JavaScript frameworks include  a b
cd4. HTTP stands foris usually the name for the	CO2 Ten Web Design Principles
<ul><li>5 is usually the name for the initial web page stored on a web server.</li><li>6. CSS stands for</li></ul>	1
7. The most widely-used programming language on the Internet is	4
8. What do the following HTML tags indicate?  a <h1> b c<em> d<img/> e<body> f<title>&lt;/td&gt;&lt;td&gt;7. 8. 9. 10. Case study Review the following websites. Which of the previous guidelines did the designer ignore?&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;ul&gt; &lt;li&gt;9. Choose a simple web page and examine it's source. You should see HTML and CSS tags.&lt;/li&gt; &lt;li&gt;• Wikipedia articles&lt;/li&gt; &lt;li&gt;• &lt;a href="https://en.wikipedia.org/wiki/Football"&gt;https://en.wikipedia.org/wiki/Football&lt;/a&gt;&lt;/li&gt; &lt;li&gt;• School Web page&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;td&gt;&lt;ul&gt; &lt;li&gt;http://mindymeyer4senate.com/&lt;/li&gt; &lt;li&gt;http://coloradoranger.com/&lt;/li&gt; &lt;li&gt;http://www.stereoandalarm.co.uk/&lt;/li&gt; &lt;/ul&gt; (1) Review each site. (2) Indicate with an X which design elements&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;• http://www.tuhsd.org/&lt;/td&gt;&lt;td&gt;you think were don't wrong. (3) Write a comment to explain your X.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;ul&gt; &lt;li&gt;CO1 Tools for a Web Developer&lt;/li&gt; &lt;li&gt;1. Name some text editors for writing HTML, CSS and JavaScript code &lt;ul&gt; &lt;li&gt;a&lt;/li&gt; &lt;li&gt;b&lt;/li&gt; &lt;li&gt;c&lt;/li&gt; &lt;/ul&gt; &lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;td&gt;Principle of Design   Mindy Meyer   Colorado Ranger   Stereo and Alarm    1.&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></body></em></h1>	

2			
3			
4			
5			
6			
7			
8			
9			
10			
CO3 Five tips f	for using colors	on your websi	te

1.	
2.	
3.	

4.	 	 
5.		

## Website theme excercise

- Open this professionally made template. There are more than 10 different variations you can choose under the "Sites" menu.
- Notice the color themes subtle tones and wellcoordinated <a href="http://www.joomlart.com/demo/#uber">http://www.joomlart.com/demo/#uber</a>

## **C05** Design Trends

The following pages are examples of creative designs using CSS and JavaScript effects.

Single page design with infinite scrolling

- 1. <a href="http://www.apple.com/iphone-6/">http://www.apple.com/iphone-6/</a>
- 2. http://bellroy.com/live-life-outside
- 3. https://pixelgrade.com/demos/rosa/
- 4. <a href="http://www.spaceneedle.com/home/">http://www.spaceneedle.com/home/</a> Horizontal Scrolling
- 5. <a href="http://www.quoplus.com/">http://www.quoplus.com/</a>
- 6. <a href="http://www.rawnet.com/">http://www.rawnet.com/</a> Multimedia
- 7. <a href="http://raisetheriver.org/">http://raisetheriver.org/</a>
- 8. http://www.sony.com/be-moved/
- 9. <a href="http://www.nike.com/us/en\_us/c/better-world/">http://www.nike.com/us/en\_us/c/better-world/</a>
  Break all the rules about scrolling and menus
- 10. http://www.world-of-swiss.com/en
- 11. <a href="http://www.dementialab.org/discovery-lab/">http://www.dementialab.org/discovery-lab/</a> Story Telling Similar to a Prezi
- 12. http://akita.co.uk/movement-of-data/
- 13. http://poppyspend.britishlegion.org.uk/
- 14. http://www.flatvsrealism.com/

Choose three of the examples as favorites write specifically what you liked. Consider usability and artistic style.

Site Name ->	1.	2.	3.	b. Type in www.yahoo.com
What site you				c. Compare old designs from early years to now.
liked and what				12. What key concepts will we cover in this class?
feature makes				a. Quarter 1
it good?				b. Quarter 2
				c. Quarter 3
				d. Quarter 4
D04 Ct - 1:	D	_ <b>L</b>		E01 10 SEO Tips
D01 Static vs	-			1. What does SEO stand for?
1. A	site on	ly changes who	en the author	1. What does sho stand for :
modifies a p				2. 10 SEO tips
2. A	site ch	ianges when u	sers or other	•
computers a	ıdd data.			a h
3. A	server paired w	rith a	server can	b
create a dyn				c d.
4	is a ke	eyword to desc	cribe Web 1.0	
5	is a ke	eyword to desc	cribe Web 2.0	e f.
6	is a ke	eyword to desc	cribe Web 3.0	
7. Web develo	pers often are pla	aced into one o	of these two	g
categories				h
a				i
•				J
8. Some comm	on languages use	ed for back-en	d development are	Inbound Links (backlinks) experiment
			•	1. Open the site <a href="http://www.wholinks2me.com">http://www.wholinks2me.com</a>
b		<del></del>		<ol> <li>Open the site <a href="http://www.wnomiks2me.com">http://www.wnomiks2me.com</a></li> <li>Enter the URL for your school. How many backlinks does it</li> </ol>
С		<del></del>		have?
d		<del></del>		3. Enter <u>www.nytimes.com</u> How many backlinks links does i
9. CMS stands	for			have?
10. Three comm	non CMS progran	ns are		nave:
•				F01 Security and Encryption
C	als Machine Ever			1. The symbol in the URL that tells you the computer is using
	ck Machine Exer			encryptiong is
			osts the "Way back	2. What does VPN mean?
	nine". It captures	-		2. What does will intent:
archi	ves them like a h	iistorical docui	ment.	

3.	A	_ is a program that checks packet	c. Design d	atabase ta
	source and destinat	ion before allowing them in or out of a	d. Design	a new con
	computer.			
4.	A	_ makes internet requests for clients,	Use the f	ollowing l
	hiding the IP addres	s of the client.	• <u>http://m</u>	oney.usne
5.	A	_ is when a user executes unauthorized	jobs/ran	kings/bes
	database code.		• <u>http://w</u>	ww.bls.go
6.		_ should not be permitted input for	<u>technolo</u>	gy/home.l
	general purpose dat	a forms on a web page.	<ul> <li>Compare</li> </ul>	four care
7.	Passwords more that	nn letters are considered		
	secure.		Career	Salary
				Range
Passv	word Cracking Exerc	rise		
			Computer	
Comp	lete the password cra	icking 101 page at	Support	
			Specialist	
nttp:/	//www.studyoffice.or	g/index.php?option=com_content&vie	Web	
w=ar	ticle&id=33:password	l-cracking-101&catid=19&Itemid=187	Developer	
			Computer	
8.		the computer take to crack each of	Systems	
	these password leng		Analyst	
		······	Database	
	b. 6 characters		Admin	
	c. 7 characters		, tallilli	
	d. 8 characters			
			College Career	Exercise
G01 I	IT Careers			
			Choose two of th	
Four	general categories for	IT careers include	required classes	in the tab
i			Web and Gra	_
ii.			https://aztra	
iii.			<u>bin/Web0bj</u>	•
iv.			Programmin	
		ould lead you to do each of these	https://aztra	
	activities?		<u>bin/Web0bj</u>	•
		<del>-</del>	Computer Pr	ogrammi
	b. Program an opera	ting system		

c. Design database tables for an application				
d.	Design a new computer component			

link

- ews.com/careers/bestst-technology-jobs
- ov/ooh/computer-and-information-
- eers and fill in the following table:

Career	Salary	Amount of	Number	Job
	Range	Education	of Jobs in	Growth %
		Needed	USA	Estimate
Computer				
Support				
Specialist				
Web				
Developer				
Computer				
Systems				
Analyst				
Database				
Admin				

ms of study below and make a list of ble

gn asu.edu/cgies.woa/wa/freeForm3?id=63317 bile Development asu.edu/cgies.woa/wa/freeForm3?id=83468 ng

https://aztransmac2.asu.edu/cgi-

bin/WebObjects/acres.woa/wa/freeForm3?id=26042

Computer and Network Technology

https://aztransmac2.asu.edu/cgi-

bin/WebObjects/acres.woa/wa/freeForm3?id=47189

**Database Development** 

https://aztransmac2.asu.edu/cgi-

bin/WebObjects/acres.woa/wa/freeForm?id=24226

1.	2.
Required core classes	Required core classes

•	Which	degree	looks	easier?	
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Which degree looks more interesting to you? \_\_\_\_\_\_