



Announcements

- Labs started today!→ YOU MUST ATTEND THE LAB YOU SIGNED UP FOR!
- You may NOT come with the lab already completed and just show it to your t.a., you must do the lab during the assigned 2 hours.
- Do not let your TA know if you have to miss a lab, your counsellor must email me. The TA (and I) can do nothing about it till I hear from a counsellor BUT REMEMBER YOU CAN MISS ONE LAB WITH NO EFFECT ON YOUR FINAL MARK, so you shouldn't need to see your counsellor.
- Don't forget, in Owl, to do your quiz before January 31.

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Assignment I will be posted soon



Big Ideas for Today Big Idea 1: First Impressions Matter! Using senses to communicate How do we spread ideas

- Why use the Internet?
- Big Idea 2: What makes one design look better than another?

• CRAP

- Big Idea 3: Monitors and Needlepoint!
- Big Idea 4: Fonts
 - ARE YOU To font SAVANT?

What is Multimedia? (term coined around 1962)

- Some definitions:
 - Wikipedia → "Multimedia is media and content that uses a combination of different content forms."
 - Merriam Webster → Their definition is actually a multimedia definition ☺ http://www.merriamwebster.com/dictionary/multimedia
 - Cambridge Dictionary → "using a combination of moving and still pictures, sound, music and words, especially in computers or entertainment"

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15,000 -13,000 BC \rightarrow Prehistoric humans paint images or the walls of their caves Grotte de Lascaux, France

Great Moments in Multimedia History Before the 1800s

Also...

 •1041AD → Bi Sheng invents movable type in China using clay letters.
 •1450 → Johann Gutenburg introduces movable type (with steel letters), to Europe allowing mass production of books.
 •1702 → England's first daily

 I702 → England's first daily newspaper starts publishing



1895 → Louis and Auguste Lumiere make La Sortie ouviers de l'usine Lumiere, considered the first motion picture

Great Moments in Multimedia History between 1800 and 1900

- Also... •1814 → Joseph Nicéphore Niépce achieves the first photographic image.
- I837 ⇒ Louis Daguerre invents the first practical form of photographic reproduction.
 I858 ⇒ Europe and North America are linked via a transatlantic telegraph cable. By 1866, news that had once taken months to travel, now took seconds
 I877 ⇒ Thomas Edison invents the phonograph
 I877 ⇒ Eadweard Muybridge
- invents high speed photographycreating first moving pictures that captured motion.



Great Moments in Multimedia History between 1900 and 1940

Also...

 •1914 ⇒Animation created by tracing live action films (rotoscoping).
 •1926 > First practical television system demonstrated
 •1927 > The Jazz Singer is the first film to feature spoken dialogue in sync with the movie.
 •1928 ⇒ Walt Disney debuts Steamboat Wille, first cartoon to use synchronized sound.
 •1939 ⇒ The Wizard of Oz memorably shows the difference between the colour and black and white cinematography.

Great Moments in Multimedia History between 1940 and 1993

A contract of the second second

1991 \rightarrow Tim Berners Lee invents the World Wide Web

Also... •1962 → Telstar, first communications satellite is launched into orbit. •1969 → ARPANET (eventually the Internet) is established by

the Internet) is established by the U.S. Department of Defence (more on this later) •1971 → First email sent, @ picked

as symbol to indicate address •1983 → Internet is created when TCP/IP is adopted by all ARPANET

users +1991 → Tim Berners Lee has finished developing the World Wide Web(http) and html and URL.World Wide Web makes its debut

•1993 \rightarrow Mosaic, first graphical web browser is released



Great Moments in Multimedia History between 1994 and 2001

Also...

 •1994 → The Rolling Stones become first major band to broadcast live over the internet.
 •1996 → Affordable digital cameras become widely available
 •1999 → Napster debuts
 •2001 → Apple introduces iTunes and the iPod
 •2005 → youTube.com launches
 •2006 → First twitter message sent
 •2007 → Search engine giant Google surpases Microsoft as "the most valuable global brand," and also is the most visited Web site

Information and dates from

Good Design Principles

- <u>https://cheezburger.com/635909/funny-</u> memes-images-that-prove-design-isnt-foreverybody
- What can we do to make our websites (or any marketing material) look a bit more professional?
- Remember design is all about CRAP!
- Most of this information and some of the examples are taken from an EXCELLENT book called:



 <u>The Non-Designer's Design Book</u> <u>by Robin Williams</u>































More on monitors

- Question: What are the dots/pieces on a monitor/screen called?
- We can use pixels (dots, thread) to represent ANYTHING (images, text, drawing) that we want to display visually on the screen (paper, fabric).



More on monitors • QUESTION: On a 17 inch monitor, we could have 800 pixels (width) by 600 pixels (height) OR 1024 pixels by 768 pixels. Think about the size of the dots/pixels for a minute in BOTH cases. • What is the terminology for the number of pixels across by the number of pixels down?

- Which resolution will have the bigger pixels?
- If we displayed this "E", on which screen would it look bigger: the 800by600 resolution or the 1024by768 resolution?

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More on monitors (and printers)

- A pixel is displayed using light on a monitor to create images or text.
- When *printing* text or images, we use ink to create the pixel but in printing, the pixels are called *dots*.
- Dots (in printing), are just like pixels in that:
 - $^{\circ}$ They can take on different colours
 - They can be big, creating big images, or small, creating smaller images.

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The Use of Text on a Website

- What do you need to know? Remember:
 - Text can be used to serve two purposes: I. It conveys information
 - It can be used as a graphical element of the page (i.e. it doesn't have to be ugly or boring! ⁽ⁱ⁾)
- You may have a cool font on your machine, but the person viewing your website might not have that font! Here are some "Websafe Fonts"
- QUESTION: What can you do if you really want to use an unusual font on your website? <u>Choice I or Choice 2</u>

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Make your style of text choices based on: • Your audience: • QUESTION: What do you need to think about for each of the following groups? • Children (what age group?) • Children (what





Some Terminology Some Funky Fonts • Font Type (or Typeface or sometimes just GoodDog Bones Font) 日本大大学会学了的日本 100年8 • Characters that have a common design are grouped into families called Font Types SpillMilk • QUESTION: Can you name two Font types?

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Quirky.

humorous





























Pixels, ems, % (Relative length)

- When text is displayed in *pixels*, *ems*, %, it is relative to the default font size for the browser and to the screen resolution.
- I em is equal to the width of an **M** in the default font type and size of the browser
 - E.g. Firefox → Times New Roman, Fontsize 16 pixels

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Experiment with Font Size

- If you are on your laptop go to: http://www.csd.uwo.ca/~lreid/cs033/FontTest1.html
- Then try the following:
 - Set the resolution to be the lowest: 800 pixels by 600 pixels
 - Set the resolution to be the highest.
 - View the page in IE and then pick View>Text Size and pick some of the different sizes. Notice the absolute fonts don't change, the relative ones do.
 - View the page in Mozilla Firefox, then pick Tools>Options then the Content Tab and change the Font Size.
 - Hold down the CTRL key and use the scroll button on your mouse
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Which Unit of Measurement to Use

- In general, don't use *points*, it is for printing.
- If you are worried about:
 - Accessibility → use ems or % since they are relative to the browsers default font and the user can make the text more readable
 - \circ **Control** \rightarrow if you want the layout to be precise, use pixels.

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Font Colour

Colour

- If you look at the underlying html on a webpage you will see the colour for text is encoded in a strange way:
 - http://www.csd.uwo.ca/~Ireid/cs1033/fontcolours.html
- Hexadecimal representation
 - Digits are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F
 - Must start with #
 - Need 2 digits for Red, 2 digits for Green and 2 digits for Blue \rightarrow RRGGBB
 - Thus really red is #FF0000

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· Paragraphs are easier to read in serif, san serif for headings

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More tips...

Use text sparingly

- Remember it is sometimes hard to read on a computer screen
- Use bullets
- Break text up into sections
- Don't be too wordy

Be consistent

 Pick a colour, size, and style of font you like and stick with it on all the pages

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Spell check → there is NO excuse for spelling mistakes!

More tips...

Avoid offending

• Don't use swear words or disrespectful language

• Set a mood

- Try to pick a font that goes with the tone of your site (for example **comic font** is great for kids)
- Make sure it coordinates/complements your images/graphics
- NEVER EVER EVER use <u>underlining</u> on a webpage → WHY?
- <u>https://www.lynda.com/Higher-Education-</u> <u>tutorials/Legibility/193717/514906-</u> <u>4.html?autoplay=true</u> Side 74 of 78



Next Week

- Introduction to Graphics
- · How to hand in your Poster Assignment
- Lab this week \rightarrow Transferring files
- Lab next week \rightarrow Photoshop Introduction
- NOW LET'S REVIEW:

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Let's Review

- What year was HTML/World Wide Web created?
- What does CRAP stand for?
- Give 2 reasons why selling via the World Wide Web is a great idea?
- What type (Serif or San Serif) of font is this: • **Hello World**
- Is this font Monospaced or Proportional?
- https://youtu.be/IMXYab-_Zs8?t=97
- Think of one thing you will take away from today's lecture!
- Can you leave now?
- YES

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