

## Overview of Today's Topics

- A bit of a mishmash ©
- Announcements
- · Overview of multimedia in general
- A bit of the history of multimedia
- Break
- A little bit about monitors and display
- Design tips
- Usage of text on a website

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#### 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.
- Assignment I will be posted soon

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# **Textbook Readings**

- Introduction
  - All of it (it's not very long!)
- Graphics
  - What are Graphics?
  - Basics of Graphics
  - Design Principles and Considerations

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# Big Ideas for Today

- Big Idea 1: First Impressions Matter!
  - $\circ$  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 🗪 font SAVANT?

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# 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 <sup>(2)</sup> <a href="http://www.merriam-webster.com/dictionary/multimedia">http://www.merriam-webster.com/dictionary/multimedia</a>
- Cambridge Dictionary → "using a combination of moving and still pictures, sound, music and words, especially in computers or entertainment"

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- All the definitions encompass different ways (more than one) of expressing something.
- How do we express ourselves?

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#### Exercise

- Find one or two other people in the room and take 2 minutes to introduce yourself
- Find out:
  - Their favourite movie(s)
  - Where they went to high school
  - Farthest country from London, Ontario that one of their grandparents is from
  - What one thing do they hope to learn in this class

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# Making an Impression

 How long do you think you have before someone makes a judgement about you?

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# Now consider after you first arrive at a website...

- How long does it take you to decide if you want to stay or if you want to leave this site?
- QUESTION: What makes you want to leave a website rather than investing more time in it?
- http://vandelaydesign.com/blog/designprocess/why-visitors-leave/

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### How can we communicate?

- Via the five senses:
  - Sight
  - Smell
  - Sound
  - Touch
  - Taste
- QUESTION: Which ones can we utilize for communication on the web?
- Multimedia application → an application that can be used to present text, sound, video, images and animation (technical definition)...

http://www.simworx.co.uk/dimensions-4d5d-effects-theatres/

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## Multimedia Uses

- To Inform:
  - http://www.cbc.ca/radio/
- To Educate:
- How to parallel park
- To Sell and Run Businesses:
  - http://www.chapters.ca
  - http://www.monster.ca
  - http://www.eharmony.ca
- To Entertain:



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# Why communicate via the web?

 QUESTION: What are the ways we can communicate or "spread a message" to other people? Can you name some ways? How did/does propaganda work? What did people used to do to spread a message?



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#### The World Wide Web is the: Voice of Power!

- I. Which area do you think has the most people?
  - 1. Africa,
  - 2. Asia
  - 3. Europe,
  - 4. Latin American/Caribbean
  - 5. Middle East.
  - 6. North America
  - 7. Oceania/Australia
- 2. Which area do you think has the most Internet users?
- 3. Which area is the smallest, has the least users?

# The Future → Are you ready?

- https://www.youtube.com/watch?v=Y9FOyoS 3Fag
- QUESTION: Does anyone know what is the difference between the World Wide Web and the Internet?

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Also...

\*1814 \*> Joseph Nicéphore Niépce achieves the first photographic image.

\*1837 \*> Louis Daguerre invents the first practical form of photographic reproduction.

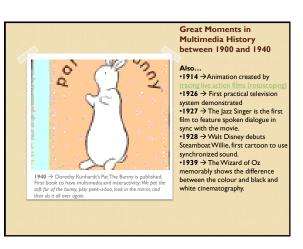
\*1858 \*> Europe and North America are linked via a transatantic telegraph cable. By 1866, news that had once taken months to travel, now took seconds

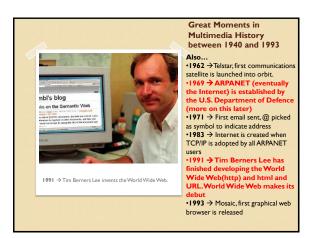
\*1877 \*> Thomas Edison invents the phonograph

\*1877 \*> Eadweard Muybridge invents high speed photography-creating first moving pictures that captured motion.

**Great Moments in** 

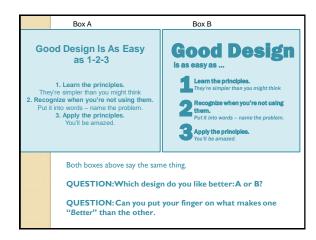
**Multimedia History** 

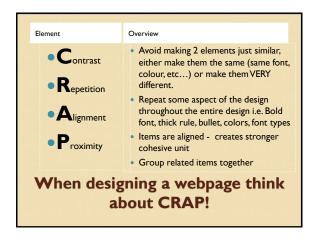




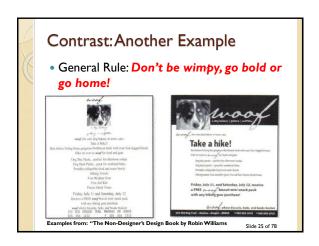


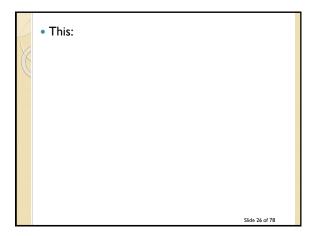
# Good Design Principles • https://cheezburger.com/635909/funnymemes-images-that-prove-design-isnt-foreverybody • What can we do to make our websites (or any marketing material) look a bit more professional? • Remember design is all about CRAP! • Most of this information and some of the examples are taken from an EXCELLENT book called: • The Non-Designer's Design Book by Robin Williams

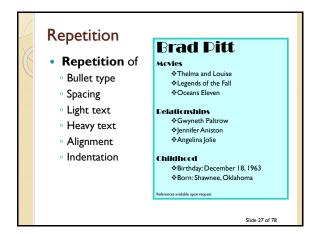


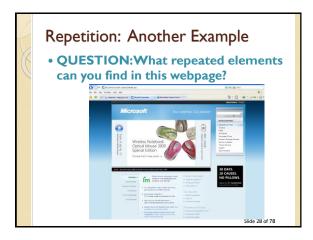


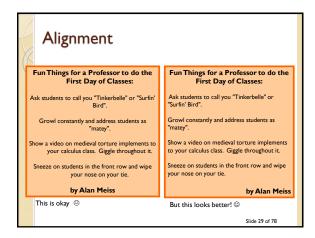


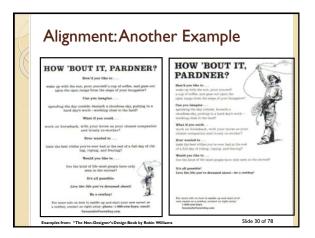


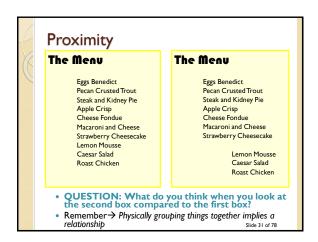


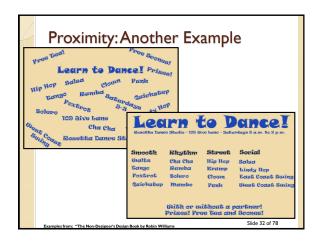


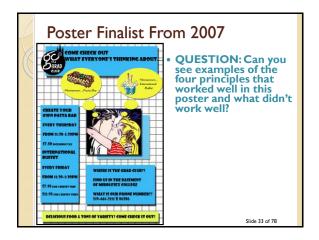














Before we begin, let's see how a monitor displays things visually!

• A monitor is just a rectangular area (the screen) broken down into very small pieces or dots where each piece/dot can take on a particular colour.

• Very similar to Obama and (

#### 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).



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#### 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:
  - They can take on different colours
  - They can be big, creating big images, or small, creating smaller images.

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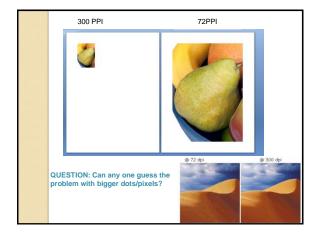
# More on monitors and printers

 QUESTION: Which one will have bigger dots → 72dpi or 300dpi (where dpi means dots per inch)? Think about 4 dpi vs. 16dpi.





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#### Break

- HOW TO SURPRISE OPRAH
  - Something to watch during the break → watch Oprah's face as she eventually figures out what is going on!

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Now that we have a basic understanding of ANYTHING is drawn on a monitor or on a piece of paper by a printer (just broken down into dots) ....

LET'S SEE HOW TO REPRESENT TEXT

#### 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
  - 2. It can be used as a graphical element of the page (i.e. it doesn't have to be ugly or boring! ©)
- 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? Choice 1 or Choice 2

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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?)
  - Teens
  - Young Adults
  - · Older People
- The type of application:
  - Educational?
  - Entertainment?
  - Business?

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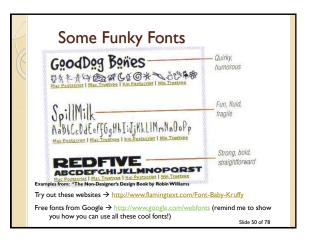




# Some Terminology

- Font Type (or Typeface or sometimes just Font)
  - Characters that have a common design are grouped into families called FontTypes
  - QUESTION: Can you name two Font types?

CI: 1: 40 - 6 70



Most typefaces or fonts are divided into one of two categories: Serif or San Serif
Serif: has a fine line added to finish a letter stroke
Always use serif fonts for large paragraphs of text. The human eye finds them easier to read!
Examples: Times New Roman, Courier
San Serif: no line added
Best for headlines and headings
Examples: Comic, Arial
https://www.youtube.com/watch?v=Y50Dmh3
SWys
(NOTE: the above video is just to get you thinking about fonts! Because Arial and Times Roman are standard on both Macs and Windows...it is FINE to use them 
sars Serif

Style

Variations in the appearance that allows the writer to emphasis parts of the text.

Some examples

Bold Times New Roman

Italics Times New Roman

Underline Times New Roman

Bold Comic

Italics Comic

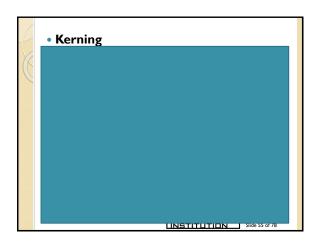
Underline Comic

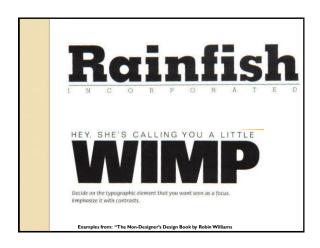
Case

• Why does case matter?

• QUESTION: What does this say?







Leading (pronounced Ledding)
 Amount of vertical space between lines of text
 As the length of a line increases, it is harder for the reader to jump to the next line, thus wide columns require greater leading.
 Tracking and leading are also related, see the next example:

Leading Examples

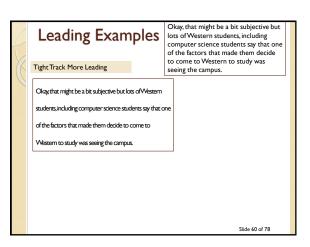
| Okay, that might be a bit subjective but lots of Western students, including computer science students asy that one of the factors that made them decide to come to Western to study was seeing the campus.

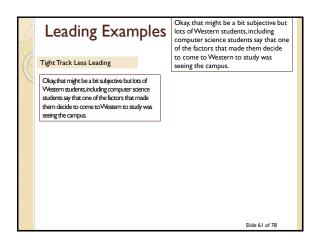
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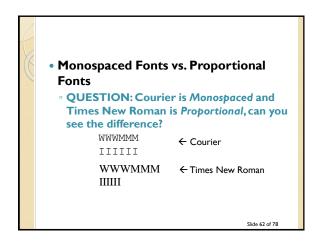
Leading Examples

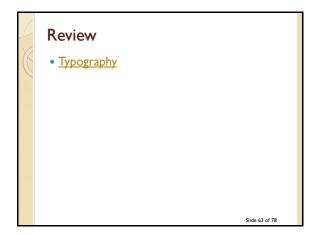
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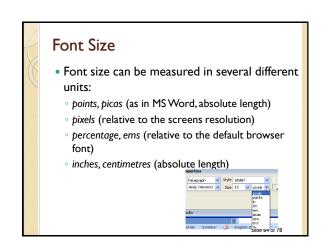
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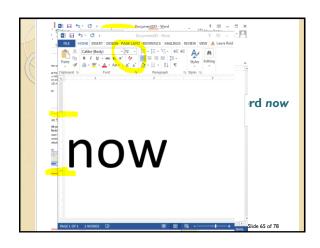


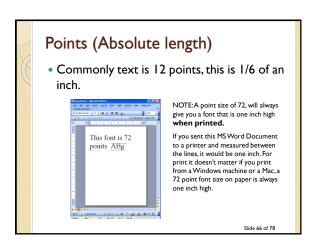












# Pixels, ems, % (Relative length)

- 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



## **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
  - Control → 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/~lreid/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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#### QUESTION

- How would you represent yellow?
- What colour do you think this is #222222?
- What colour do you think this is #CCCCC?
- Answers:

<u>x/</u>

#### Things to remember when using **text**:

- Is text the best choice?
  - Use text when it is the best way to convey information
- Make sure it is readable
  - Use a dark background with light text or a light background with dark text
  - Don't make the font too small
  - Make sure the font is readable (be careful with weird fonts)
  - Don't use too many fonts (2 or 3 different styles is enough)
  - Don't crowd your text, have some white space
  - · 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
- Spell check → there is NO excuse for spelling mistakes!

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## More tips...

- Avoid offending
  - o 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?
- https://www.lynda.com/Higher-Educationtutorials/Legibility/193717/514906-4.html?autoplay=true

# A Great Design Review in 50 Seconds!

• http://mattgreenwood.tv/ELEMENTS-OF-DESIGN

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# Next Week

- Introduction to Graphics
- · How to hand in your Poster Assignment
- Lab this week → Transferring files
- Lab next week → 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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