

211 Multimedia Web Design

Lesson 3/4 – Internet Connectivity

http://www



creative imedia

Starter

- List all the different ways you can access the internet (e.g. how many different ways can you access Facebook?)
- We will review in 5 minutes.
 - PC
 - Laptop
 - Mobile / Smart Phone
 - PDA
 - TV
 - Public Internet Point
 - Netbook / Tablet PC (e.g. iPad)

Objectives

- Understand the ways in which people view websites.
- Know the different connection types that exist for internet connectivity.
- Complete a research report on website connectivity.

How people get online

PC



Smart Phone



Laptop



Netbook



Public Points



Digital Television



PDA



Tablet / iPad



- Who would use each of the above ways to access websites?
- Why?
- Why do you think there are so many different ways?

Now we're online

- OK, so we have a way of viewing websites.
- What are the different ways to actually connect to the internet.
- Two minutes to discuss the different ways and then we will review.

Ways to connect...

- Modem
- Broadband
- WiMax
- 3G / HSDPA
- Wi-Fi
- Bluetooth
- Satellite

"56k, Over phone line, really slow.

"broad bandwidth" – single wire carrying voice, data, video etc. 512k – 100Mbps+

"worldwide interoperability for microwave access" – basically completely wireless broadband (no cables needed to the home / point). E.g. City Wide WiFi.

Mobile internet access via mobile phone network. Speeds up to 14Mbps and beyond.

Shares an existing connection – via wireless hotspots.

Portable devices connecting to computers to gain access to the internet. E.g. Tethering your phone and computer.

Almost broadband speeds using a link to an orbiting satellite.

Taking a closer look...

Imagine your internet connection is like a bottle neck or a pipe.

The faster the internet connection, the bigger the pipe – so more can fit down it.



50K



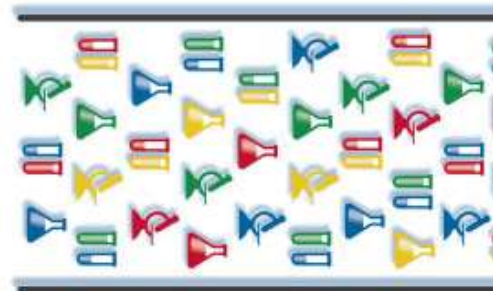
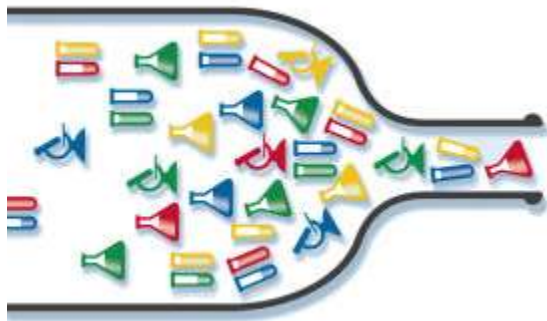
120K



5120K (5MB)

MODEM – the bigger the file(s), the slower they will download.

BROADBAND– can handle larger files and rich content online



And finally, an overall comparison

Connection Speed	Download 5MB File (MP3) - approx	Download 50MB File (Movie Trailer) approx	Download 700MB File (1 CD) approx
56k Dial up	12 mins	2 hours	28.5 hours
3G 1Mbps	37 secs	4.5 mins	1 hour
HSDPA 8 – 14Mbps	5 secs	1 min	12 mins
Broadband 20Mbps	2.3 secs	20 secs	5 mins

Who would use each of these connections and why?

Modem	Broadband	3G / HSDPA
WiMax	Wi-Fi	Bluetooth
Satellite	isdn	

- Who would use each of these types of connection?
- What is good / bad about each one?

Today's Task

- In part 3 of your pre-project report you need to demonstrate you know:
 - **The different ways people connect to the internet, who would connect in that way and why.**
 - **The different connection types which exist, who would use them and why.**
 - **The concept of bandwidth and why web page file sizes should be small as possible.**
- It is up to you HOW you show this. This could be a written report, with graphics, a presentation, a podcast etc.
- If you are not doing a written report, you should refer to the file in underneath the heading. Keep it in your Web Folder! It is coursework.

Objectives Review

- Understand the ways in which people view websites.
- Know the different connection types that exist for internet connectivity.
- Complete a research report on website connectivity.

Plenary

- [You say we play review](#)

http://www