

Web Development & Interactive Media Instructor: Tony McEachern, Assistant Professor

# What is an Interactivity?

Interactivity is the relationship between media users and the medium that allows each individual user to influence and react to the media source.

The following are some examples ways users can interact with online media:

- Text Links,
- Graphic Buttons,
- Email,
- Online Forms
- Web Logs (Blogs)



#### What is an Interface?

A graphical user interface (GUI or Goo–ee) is the 1<sup>st</sup> point of contact with the website by the site visitor.

GUI uses icons and symbols to establish visual representation with user interactivity. Images are used to instead of simple text to communicate functions to the site user.



#### What is an Interface?



• All interior pages

#### What is Navigation?



Term *navigation* refers the act of moving from location to location within a web site, or between web sites.

Navigation is accomplished by clicking on text links or navigation buttons.

#### Navigation: The Path of Least Resistance



Whether accomplished through *text links* or *graphic buttons*, *Navigation* must be intuitive to the user.

**CAUTION:** An over-fancifully designed interface can make it difficult for users to find their desired information on your website. Be sure to use clear and consistent navigational elements.

# The 3 Degrees of Navigation?

There are 3 main types or degrees of navigation within a website:

- **Global** allows the site visitor to move between the main sections of a particular site. *Global Navigation* should be present on every page of the site.
- **Parallel** allows the visitor to move in a *parallel manner* between the *subsections* of a particular site section. *Parallel Navigation* should be present on every page of the subsection of the site.
- Local is use to find information within a single. It may be represented as a list or table of contents at the top or side of a page with links to content sections of that same page.

# The 3 Degrees of Navigation?

There are 3 main types or degrees of navigation within a website:

- Parallel
- Global
- Local



# **Standard Structure for Promotional Websites**

The standard structure for a promotional website is as follows:

- Splash page
- Home page
- About us page
- Services page
- **Experience** page
- Product/Work Samples page
- **Contact page**



#### **Color Modes**

There are several established color modes used in computer graphics, but the two most common are the RGB model (Red-Green-Blue) for computer display and the CMYK model (Cyan-Magenta-Yellow-blacK) for printing.

#### **RGB** Color Mode

Additive color model For computer displays Uses light to display color Colors result from transmitted light Red+Green+Blue=White

#### **CMYK** Color Mode

Subtractive color model For printed material Uses ink to display color Colors result from reflected light Cyan+Magenta+Yellow=Black



#### **Hexadecimal Color**

The *hexadecimal system* is a six-digit, alpha-numerical RGB color system. It consists of a combination of the six (hex) alphacharacters from A-F and the ten (deca) numerical-digits from 0-9. This various combinations of these characters and digits create the 256 *Web Safe* colors.

FFF FFF	CCC	999	666 666	333 333	000	FFC C00	FF9 900	FF6 600	FF3 300	SWITCH TO DECIMAL RGB COLOR CODES					
99C C00					900	FFC C33	FFC C66	FF9 966	FF6 633	CC3 300					033
CCF F00	CCF F33	333 300	666	999 900	CCC C00	FFF F00	933	CC6 633	330	660 000	990 000	000	FF0 000	FF3 366	FF0 033
99F	CCF	99C	666	999	CCC	FFF	996	993	663	993	CC3	FE3	CC3	FF6	FF0
F00	F66	C33		933	C33	F33	600	300	333	333	333	333	366	699	066
66F	99F	66C	669	999	CCC	FFF	996	663	996	CC6	FF6	990	CC3	FF6	FF0
F00	F66	C33	900	966	C66	F66	633	300	666	666	666	033	399	6CC	099
33F	66F	339	66C	99F	CCC	FFF	CC9	CC6	CC9	FF9	FF3	CC0	990	FF3	FF0
F00	F33	900	C00	F33	C99	F99	966	600	999	999	399	066		3CC	OCC
00C	33C	336	669	99C	CCF	FFF	FFC	FF9	FFC	FF9	CC6	993	660	099	330
C00	C00	600	933	C66	F99	FCC	C99	933	CCC	9CC	699	366	033		033
33C C33	66C C66	00F F00	33F F33	66F F66	99F F99	CCF FCC				900 900	996 699	993 399	990 099	663 366	660 066
006 600	336 633	009 900	339 933	669 966	99C C99				FFC CFF	FF9 9FF	FF6 6FF	FF3 3FF	FF0 OFF	CC6 6CC	CC3 3CC
003	00C	006	339	66C	99F	CCF	339	99C	CCC	CC9	996	663	330	990	CC0
300	C33	633	966	C99	FCC	FFF	9FF	CFF	CFF	9FF	6CC	399	066	0CC	0CC
00F	33F	009	00C	33F	99F	99C	006	669	999	999	993	660	660	CC3	CC0
F33	F66	933	C66	F99	FFF	CCC	6CC	9CC	9FF	9CC	3FF	0CC	099	3FF	OFF
00F	66F	33C	009	66F	66C	669	003	336	666	666	666	330	993	CC6	990
F66	F99	666	966	FFF	CCC	999	366	699	6FF	6CC	699	099	3CC	6FF	OFF
00F	66F	3.3C	33F	33C	339	336	006	003	333	333	333	333	663	996	660
F99	FCC	C99	FFF	CCC	999	666	699	399	3FF	3CC	399	366	3CC	6FF	0FF
00F FCC	33F FCC	OOF FFF	00C CCC	999 999	006 666	003 333	339 9CC	336 6CC	000 OFF	000 0CC	000	000	000	663 3FF	330 0FF
00C C99	© 2	006	Visil	Bone	009 9CC	33C CFF	66C CFF	669 9FF	336 6FF	003 3CC					330 0CC
						OOC	009	006	003						

# **Graphic File Formats**

There are 4 main types of graphic image file formats to know when designing a website:

- **JPEG** Joint Photographic Experts Group.
- **GIF** Graphics Interchange Format.
- **PNG** Portable Network Graphics.
- SWF Shockwave Flash File (Scalable Vector Graphic)

# **Graphic File Formats** JPEG

Joint Photographic Experts Group

Used for photographic (continuous tone) images. Unlike GIF files the JPEG format can take advantage of the full spectrum of colors available to your monitor. The JPEG format also uses compression for smaller files and faster downloads.

NOTE!!! unlike the compression method used in GIF files, the JPEG compression is "lossy" which means it discards data in the process.

Once a file is saved in JPEG format the data is permanently lost.

# **GIF** GIF

Graphics Interchange Format - Images using a fixed color palette (limited to only 256 colors - not the full spectrum of colors available to your monitor). This format uses compression for smaller files and faster downloads. This format is best for images with solid colors or areas of uniform color such as illustrations and logos.

#### **Graphic File Formats** PNG Portable Network Graphics

PNG is a raster (bitmapped) graphical format that uses lossless data compression. This is the native file format for Adobe Fireworks and was designed to replace the GIF because of its versatility. It supports grayscale and web safe colors but does not support CMYK. PNG also supports transparent backgrounds, unlike JPEGs.

#### **Graphic File Formats** SWF Shockwave Flash File

SWF is a scalable vector-based graphical format that is resolution independent.

This is the native file format for Adobe Flash and was designed to make web animation most efficient. SWF supports raster (bitmapped), vector, audio and video-based content.

# Compression: Lossy vs. Lossless

When compressing files for the web, color information is what's altered:

- Lossy reduces the file by permanently eliminating certain color information. JPEGs are lossy.
- Lossless- reduces the file by converting the colors to 256 or less. When the file is uncompressed all the original data can be recovered. GIFs and PNGs are lossless.

# Storyboarding: Mocking-up & Prototyping

Storyboarding is a technique used by visual communicators to convey the main sections and interactivity of a website.





Mocking up and organizing potential components of an interface helps confirm that you have all the information and navigation tools you need to represent the desired content in as transparent a manner as possible. It's not the medium that's important—it's the message.

# Storyboarding: Mocking-up & Prototyping



# Storyboarding: Mocking-up & Prototyping



# Assignment No. 3

#### Planning the Website (Due Monday Oct. 31):

- **1. Concept Development:** Develop a concept in the form of a theme or metaphor that describes you, your product, or the service you intend on rendering. Describe your concept in treatment format (1-3 paragraphs).
- **2. Site Functionality & Page Relationship:** Create a site map & flow chart that lists the main sections and relationships between the pages of your site (clean & computer generated).