

# *Web Design 9*

How the World Wide Web  
Works?

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# What is the Web made of?

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The Web consists of:

- Your personal computer
- A web browser (software)
- A connection to the Web (Internet Service Provider, ISP)
- Servers to host data
- Routers to direct data flow



# How the Web works?

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- Web pages are stored on **web servers** located around the globe
- We locate information by clicking on a link or typing in an **Uniform Resource Locator**, or **URL**. Also commonly known as the “web address”



# How the Web works? (cont'd)

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- By entering an URL in your web browser, your computer sends a request to the server that hosts the information
- The server transmits the web page data to your computer
- Your web browser then displays the data on your screen



[Click for a short clip](#)

# Web Pages

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- A web page is an electronic document written in a language called **HTML** (Hypertext Markup Language)
- Web pages can contain text, graphics, audio, video, and more
- Each page has a unique address (URL) which identifies its location on the server
- Web pages usually contain **hyperlinks** to other web pages

# Web Pages

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URL

<http://www.upandaway.com/index.html>

## Up and Away Balloon Rides

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Table Header	



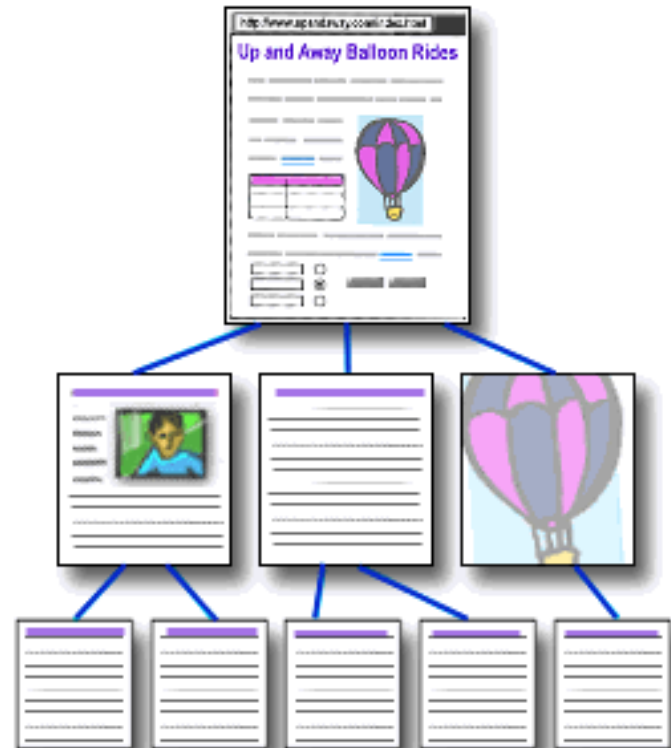
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<input type="text"/>	<input type="radio"/>	<input type="text"/>
<input type="text"/>	<input checked="" type="radio"/>	<input type="text"/>
<input type="text"/>	<input type="radio"/>	<input type="text"/>

# Websites

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- A website consists of one or more web pages that are related to a common theme
- The first page is called the **home page**
- From the home page, you can click on **links** to access other pages



# Navigating the Web

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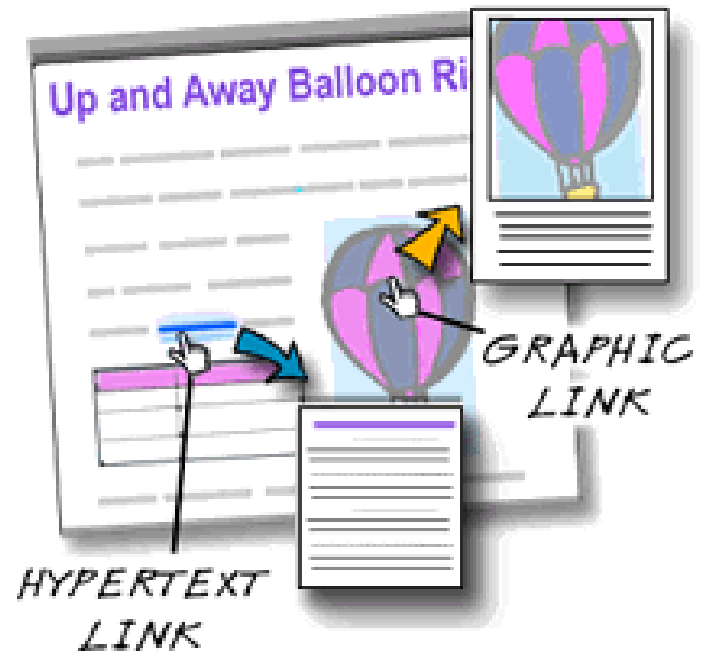
You can move between web pages by

1. Click on a text link
2. Click on a graphics link
3. Type in the URL of a web page in the address or location box

# Hyperlinks

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- A hyperlink hides an URL
- Text links are usually underlined.
- You can also determine if an image is hyperlinked by moving the mouse cursor over it. If your cursor turns into a hand then it is hyperlinked



# Uniform Resource Locator (URL)

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- An **URL** indicates where the web page is stored on the Internet
- You need to type in an URL *exactly* for your web browser to locate the page correctly.
- URLs almost never use back slashes (\). Always use forward slashes (/)

# Anatomy of an URL

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Address



<http://schools.sd68.bc.ca/bars/barssplash/splashpage.htm>

- http://** Short for **Hypertext Transfer Protocol**, this indicates a Web document
- schools.sd68.bc.ca/** This is the **domain name**. It often indicates the name of a company, school, or organization. Sometimes it also tells you the country of origin
- bars/barssplash/** This is the **directory path** or the folder on the web server that contains a group of related web pages
- splashpage.htm** This is a **web page** inside the folder. It is the page that you're currently viewing

## NOTE:

- An URL doesn't always include the name of the page
- **www** is optional these days. [www.canada.com](http://www.canada.com) is the same as [canada.com](http://canada.com)

## It's your turn

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- Now that you know a bit more about the World Wide Web
- [Test your knowledge of the Internet here](#)
- Start [Assignment 1](#)