

Website Creation

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Website Creation

- What is a **website**?

a collection of related Webpages that contain among other things text, images and all types of multimedia

collection of related **web resources**, such as **web pages** and **multimedia content** which are identified with a common universal resource locator (**url**) and published **webserver**

What is a url?

- The address of a resource on the Internet

<http://www.unza.zm/school/education/lisdept.html>

192.68.10.10

- A URL usually consists of the following components:-

Protocol is the technology that will be used to transfer the data, usually **http** or **https**

Domain is the domain name, [unza.zm](http://www.unza.zm) for example.

Path relates to the section and page on the site

Hash relates to a section within the page

Note: some URL contain Query string contains data that is being passed to the page:

<http://tuesday.com/solutions/?example=test&example2=test2#section3>

What is a web page?

- A web page is a document **Hypertext Markup Language** (HTML 5)
- A web page may incorporate elements from other websites with suitable **markup anchors**
- Anchors are links that connect a web page to another or to an external website

Website structure

- A website normally has a **hierarchical** structure
- It has a family tree structure
- The home page of a website represents a parent with many children and grand children
- The home page is linked to other web pages

Types of websites

1. Static website

2. Dynamic website

■ Static website

website that has web pages stored on the server in the format that is sent to a client web browser.

It is coded in Hypertext Markup Language (HTML5)

They are usually written in HTML/XHTML, HTML 5 and CSS3

Static websites present pre-defined static information to the user

This type of website usually displays the same information to all visitors.

They are similar to a printed brochure

Dynamic website

- A dynamic website is one that changes or customizes itself frequently and automatically
- These websites are built using HTML5 and other web programming languages such as PHP and Java Scripting Language
- UNZA website and The Mast News Paper website are examples of Dynamic websites

Uses of a website in modern society

- ✓ Marketing and selling of goods and services(Commercial websites)
- ✓ Dissemination of information (government websites)
- ✓ Solicitation of opinion/information from the organization's clients
- ✓ Provision of services to clients

The World Wide Web Consortium(W3C)

- This consortium came into being after the birth of The World Wide Web in the early 1990s



The World Wide Web Consortium(W3C) Cont....

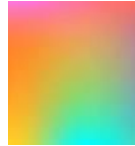
- Bernard Lee invented the WWW in 1994
- The role of W3C is supervise the development of the web
- It is the organization that is responsible even for the development and approving of web programming languages such as xHTML, PHP etc
- Members of the W3C include

Website Design Principles

1. Website purpose

- ✓ Describing Expertise
- ✓ Building Your Reputation
- ✓ Generating Leads
- ✓ Sales and After Care

2. Simplicity

- ✓ Colour 
- ✓ Type (3 different fonts)
- ✓ Images

Website Design Principles Cont..

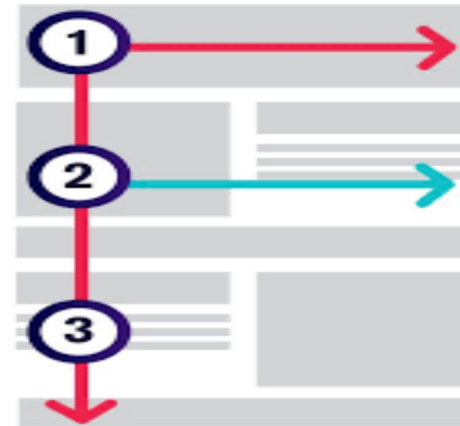
3. Navigation



VectorStock®

VectorStock.com/2127834

4. The F' shaped layout



Website Design Principles Cont..

5. Visual hierarchy

- ✓ Visual hierarchy is the arrangement of elements in order of importance

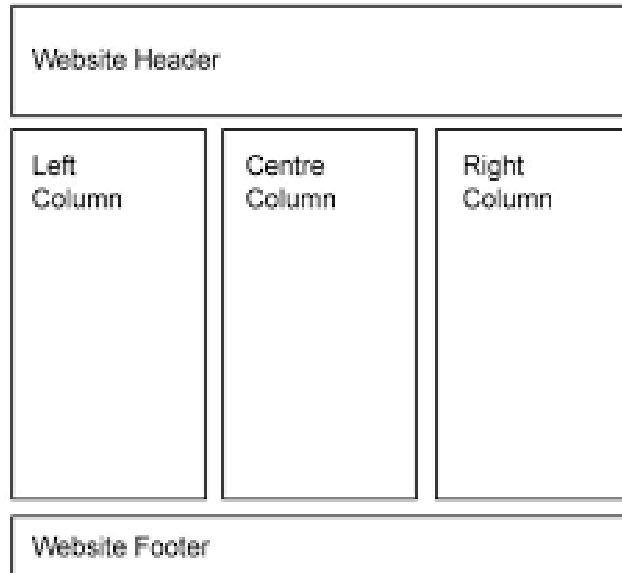
size, colour, imagery, contrast, typographically, whitespace, texture and style

• 6. Content

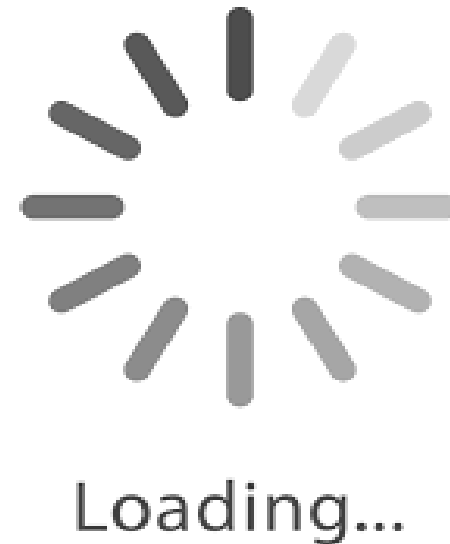
- ✓ great content
- ✓ good use of language

Website Design Principles Cont...

7. Grid based layout



8. Time Load



Website Design Principles Cont..

9. Mobile friendly

✓ Responsive design



WEB DEVELOPMENT TOOLS

- Web editors
- Note pad, Notepad++ and offline editors (dream weaver)



WEB DEVELOPMENT TOOLS Cont...

- Image compression software
- Irfan view and picture manager (office)



3. Sound and video compression software

- The Blaze Media Pro software

4. Web browser

 <p>Dolphin Browser Dolphin Browser</p> <p>★★★★★</p>	 <p>Firefox-Browser für Mozilla</p> <p>★★★★★</p>	 <p>Android Browser Digital Cookies</p> <p>★★★★ KOSTENLOS</p>	 <p>Mobiler Web-Browser Opera Software ASA</p> <p>★★★★★</p>	 <p>Next Browser für Android BO Launcher Dev Team</p> <p>★★★★ KOSTENLOS</p>	 <p>UC Browser for Android UCWeb Inc.</p> <p>★★★★★</p>	 <p>Opera-Browser für Android Opera Software ASA</p> <p>★★★★★</p>	 <p>Chrome-Browser Google Inc.</p> <p>★★★★★</p>
 <p>Maxthon Web Browser Maxthon Browser</p> <p>★★★★ KOSTENLOS</p>	 <p>Baidu Browser Baidu Inc.</p> <p>★★★★ KOSTENLOS</p>	 <p>Ninesky Browser ninesky.com</p> <p>★★★★ KOSTENLOS</p>	 <p>ONE Browser Tencent Mobile Internat</p> <p>★★★★ KOSTENLOS</p>	 <p>Boat Browser for Android Boat Browser</p> <p>★★★★ KOSTENLOS</p>	 <p>Dolphin Browser Mini Dolphin Browser</p> <p>★★★★ KOSTENLOS</p>	 <p>Yandex Browser Rugenc</p> <p>★★★★ KOSTENLOS</p>	 <p>Browser für Android Easysoft</p> <p>★★★★ KOSTENLOS</p>
 <p>Boat Browser Mini Boat Browser</p> <p>★★★★ KOSTENLOS</p>	 <p>Root Browser Jifumny Apps Inc.</p> <p>★★★★ KOSTENLOS</p>	 <p>Tint Browser Anasthase</p> <p>★★★★ KOSTENLOS</p>	 <p>Habit Browser mura.k</p> <p>★★★★ KOSTENLOS</p>	 <p>Super Fast Browser ironSource</p> <p>★★★★ KOSTENLOS</p>	 <p>Einfach Browser Easy Software</p> <p>★★★★ KOSTENLOS</p>	 <p>UC Browser HD For Android UCWeb Inc.</p> <p>★★★★★</p>	 <p>FlashFox - Flash Browser Mobius Networks</p> <p>★★★★ KOSTENLOS</p>

Introduction HTML5

- The letters HTML5 stand for Hyper Text Markup Language five.
- It is not a full-fledged programming language but a text formatting language
- It is however, a foundation language used in designing all manner of websites (namely [static](#) and [dynamic websites](#)).

Introduction HTML5 Cont...

- ❑ It is a language that is used in formatting the contents of any website.
- ❑ Unlike procedural programming languages such C++ and Java, HTML5 is a markup language that specifies the format of the text that is displayed in a web browser.
- ❑ HTML5 is a living web language for the World Wide Web Consortium and WHATWG

Markup languages makeup

- All markup languages are made of **tags**; contents are nested between the tags
- A tag begins with “<” and ends with “>”
sign

Example

<tag>

Markup languages makeup Cont..

- These tags are either **paired or standalone** tags
- Paired tags come as a pair of two

Example

```
<p>contents </p>
```

```
<li> contents</li>
```

Markup languages makeup Cont..

- Standalone tags are single tags but carries / symbol before the closing greater than symbol

Example

`<hr >`

`
`

Markup languages makeup Cont..

- Some tags do have **attributes** that describe them
- These attributes have **values**
- For paired tags these attributes and values are placed in the opening tag

Example

```
<body color="red">
```

```
</body>
```

Historical background of HTML5

- HTML 5 grew independently of the W3C
- Developed by **WHATWG**
- HTML5 stands for Hyper Text Markup Language 5.
- It is similar to **XHTML5**; the latest version of XHTML which HTML5 has replaced
- The WHATWG and W3C are managing HTML5 and it has been declared a living standard

Historical background of HTML5

Cont...

- XHTML replaced HTML 4.01.
- HTML replaced SGML (Standard General Markup Language)

Differences between HTML5 and XHTML

- ✓ While XHTML is case sensitive, HTML5 is not (HTML is also case insensitive).
- ✓ HTML5 has a much simpler doctype than XHTML and HTML (Doctypes tell the browser how to interpret the data).
- ✓ HTML5 is compatible with all browsers while XHTML isn't.
- ✓ HTML5 is more lenient, following the footsteps of HTML4, than XHTML.
- ✓ HTML5 is better suited for mobile devices such as tablets and phones, while XHTML is better suited for computer screens.
- ✓ New elements such as picture, article, section, video etc have been introduced in HTML5.
- ✓ HTML5 also has native support for vector graphics, so, there is no need of third-party software such as Adobe Flash.

Structure of a web page

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Title of the document</title>
</head>

<body>
Content of the document.....
</body>

</html>
```

Structure of a web page cont...

- The contents of the web page will be nested in the body tag and they will be structured under **container** elements below:

