

# *Web Content*



# *The 3 Components of the Web*

- **Resource Identification**
    - Using URI (URN/URL)
    - Aka Web Addressing
  - **Interaction**
    - Protocol: HTTP
  - **Content/Format**
    - How information/data is written
    - **HTML** : basic web programmers must-know
    - **XML** based formats
    - Other formats.
    - Specifications on how content is to be rendered.
- 
-

# *Content Formats*

- **Text**
  - HTML
  - XML
  - Plain Text
  - CSS\*
  - Javascript code\*
- **Binary**
  - Graphics
  - Audio/Video
  - Java Applets
  - Flash
  - Etc...

# *The Web Browser: Content Renderer*

- The Client Application
  - In charge of communication with a web server
  - **Renders** the content (The browser is a document parser).
    - By parsing HTML
    - ....or XML
    - Apply stylings (default or via CSS)
  - The Browser is the requestor, parser and renderer

# Web Browser

- Thin browser/thin client
  - Renders only basic content: HTML, plain text
- Thick browser/thick client
  - Requires the help of plugins and helper applications to render web page content.
    - E.g. Java applets require a JRE configured with the browser
    - E.g. Flash animation requires a Runtime environment for flash.
    - E.g. Audio/Video requires media players with codecs

# HTML

- Hypertext Markup Language
  - A web programmer's basic content markup language.
  - Last Version\* : 4.01
  - Update: HTML 5/XHTML 5 is under development.
  - Markup Language
    - Marks up elements of the web page thru the use of tags.
  - An Application of SGML (Standard Generalized Markup Language)
    - A *metalanguage*



Make Y! your home page



Yahoo! Year in Review: Top Searches in 2008

Web Images Video Local Shopping more ▾

Search: 

Web Search

Yahoo! Home

My Yahoo!

Y! Philippines

Dec 2, 2008

Page Options ▾

🌐 Answers

🚗 Autos

💰 Finance

🎮 Games

👥 Groups

💼 HotJobs

📍 Maps

📱 Mobile Web

🎬 Movies | TV

🎵 Music

🌟 OMG

💕 Personals

🏠 Real Estate

🌟 Shine

🛒 Shopping

🏆 Sports

🧳 Travel

📄 Yellow Pages

More Yahoo! Services

Small Business

• Get a Web Site

Featured

Entertainment

Sports

Video



## Mystery of Tina Fey's scar

Her husband reveals the story behind the "30 Rock" star's prominent facial mark.

» Shocking injury

- Actors picked for remake of 'Fame'
- TV's top 10 shows this week



Story behind Tina Fey's facial scar revealed



Who was the most searched for in 2008?



Recession report triggers big drop in stock market



Scammers' newest targets are scam victims

» More: Featured Buzz

News

World

Local

Finance

As of 8:44 a.m. PHT

- Rice says she won't give Clinton too much advice for new role
- Mumbai terror suspect's arrest allegedly captured on video
- Bush remorseful on financial crisis: 'I'm sorry it's happening'
- Thai crisis deepens as airport siege intensifies | 📷 Photos
- Estranged relative arrested in Jennifer Hudson family killings
- Ford CEO will return to Washington, D.C. by car for hearings
- New study may determine how to slow down aging process
- NFL · NCAA Football · NBA · NCAA Hoops · NHL · Soccer

» More: News Popular Politics

Markets: Dow: -7.7% Nasdaq: -9.0%

Check your mail status: Sign In

Free mail: Sign Up



Mail



Messenger



Puzzles



Weather



Events



Horoscopes

## My Yahoo!

The stuff you want,  
how you want it.

» Check it Out



## Yahoo! Shopping

Wrap up the coolest gifts at any price



under \$25



\$25 - \$50



\$50 - \$100



\$100 - \$300



over \$300

## Pulse - What Yahoos Are Into





navigation

- [Main page](#)
- [Contents](#)
- [Featured content](#)
- [Current events](#)
- [Random article](#)

search

interaction

- [About Wikipedia](#)
- [Community portal](#)
- [Recent changes](#)
- [Contact Wikipedia](#)
- [Donate to Wikipedia](#)
- [Help](#)

toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)
- [Cite this page](#)

[article](#) [discussion](#) [edit this page](#) [history](#)



Wikipedia is there when you need it — now it needs you.

[Collapse]

\$3,270,650

Our Goal: \$6 million

[Donate Now >>](#)

## HTML 5

From Wikipedia, the free encyclopedia



**This article contains information about a scheduled or expected [future product](#).**

It may contain preliminary information that does not reflect the final version of the product.

**HTML 5 (HyperText Markup Language 5)** is planned to be the fifth major revision of the core language of the [World Wide Web](#), [HTML](#). When HTML 5 is expressed in [XML](#), it is called **XHTML 5**.

The ideas behind HTML 5, originally referred to as *Web Applications 1.0*, were pioneered in 2004 by the [Web Hypertext Application Technology Working Group](#) (WHATWG); HTML 5 incorporates *Web Forms 2.0*, another WHATWG standard. The HTML 5 standard was adopted as the starting point of the work of the new HTML working group of the [W3C](#) in 2007. The working group has published the First Public Working Draft of the specification on [January 22, 2008](#).<sup>[1]</sup> The specification is ongoing work, and expected to remain so for many years, although parts of HTML 5 are going to be finished and implemented in browsers before the whole specification reaches final Recommendation status<sup>[2]</sup>

### Contents [hide]

- 1 [New markup](#)
- 2 [New APIs](#)
- 3 [Differences from HTML 4](#)

### HTML (HyperText Markup Language)

<b>Filename extension</b>	.html, .htm
<b>Internet media type</b>	text/html
<b>Type code</b>	TEXT
<b>Uniform Type Identifier</b>	public.html
<b>Developed by</b>	<a href="#">World Wide Web Consortium</a>
<b>Type of format</b>	<a href="#">Markup language</a>
<b>Standard(s)</b>	[1] <a href="#">↗</a>



## Showcase Explorer

Select Theme Gray



Table of Contents

Credits

Tree

Buttons

Layouts

Panels

Windows

Combobox

Toolbar &amp; Menu Examples

Grids

Forms

Tab Panels

Combination Samples

Resizable

Drag &amp; Drop

Portal

Miscellaneous

User Contributions

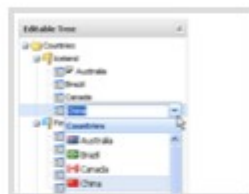
Charts Showcase

Maps Showcase

User Extensions Showcase

## GWT-Ext 2.0.5 Showcase

## Welcome to GWT-Ext 2.0.5



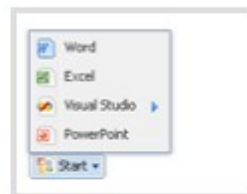
Editable Tree



Tree to Tree...



Grid - Tree ...



Menu Button



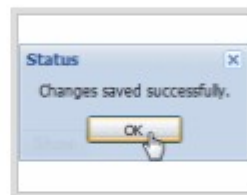
Accordion La...



Complex Layout



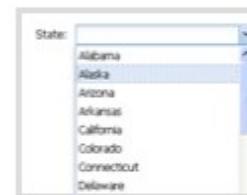
Panels



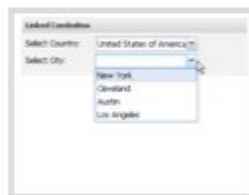
MessageBox &amp;...



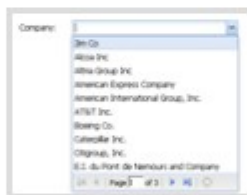
Layout Window



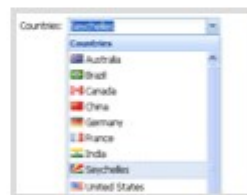
Basic ComboBox



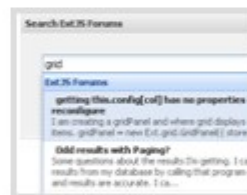
Linked ComboBox



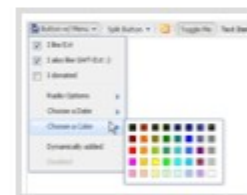
Paging ComboBox



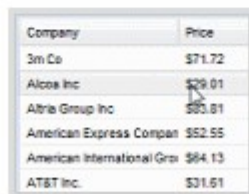
Styled ComboBox



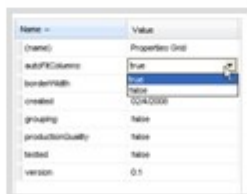
Live Search



Toolbar &amp; Menus



Basic Array ...



Property Grid



Grid Grouping



Numbered Rows



Local XML Grid



Editor Grid Example



Grid that pages Local / In-Memory data



I want to define some a tooltip on a Ext f the control or on the label. Thanks Marc



Simple Form with Fields



Form with Fields

Tree View

Accordion

Database Tables - Mozilla Firefox

File Edit View History Bookmarks Tools Help

← →

↺ ↻

🏠

📄

http://spreadsheets.google.com/cc?key=pfM0Er211k-K4piMzWT-CAw&hl=en

★

Google

Google Docs - Spreadsheets

Database Tables

Google Docs

rnduldulaojr@gmail.com

New features

Docs Home

Help

Sign Out

Database Tables

Share

Autosaved on 11/22/08

File Edit View Format Insert Tools Form Help

🖨 ↶ ↷

\$ % 123

11pt

B Abc

🔗

📊

🔍

Σ

	A	B	C	D	E	F	G
1							
2		UNITS					
3		unitCode	VARCHAR	7	PK	Unit's code	
4		unitName	VARCHAR	60		Unit's name	
5		unitType	VARCHAR	15		Unit's type [registrar/college/department/institute]	
6		parentUnit	VARCHAR	7	FK: UNITS	Unit to which the unit belongs	
7							
8							
9		CURRICULA					
10		curriculumCode	VARCHAR	10	PK	Curriculum's code	
11		curriculumName	VARCHAR	60		Curriculum's full name	
12		totalUnits	INT			Curriculum's total number of units	
13		freeElectiveCount	INT			Number of free electives in the curriculum	
14		semesterCount	INT			Number of semesters in the curriculum	
15		yearCount	INT			Number of years in the curriculum	
16		MSTUnitCount	INT			Number of units of MST courses	
17		AHUnitCount	INT			Number of units of AH courses	
18		SSPUnitCount	INT			Number of units of SSP courses	
19		electiveUnitCount	INT			Number of units of elective courses	
20		coreCourseUnitCount	INT			Number of units of core courses	
21		majorUnitCount	INT			Number of units of other major courses	
22							

+

Add Sheet

Sheet1

Sheet2

Sheet3

Done

## Create a ZK Account

(All fields marked with an asterisk (\*) are required and must not be left blank.)

Among all information below, only your user name will be public.

Only English letters and numbers are accepted for username.

Username \*

✖ username is required

Password \*

Confirm your password \*

e-mail \*

**Your Email Address will be used to verify your account. Please provide correct email address.**

First Name \*

Last Name \*

City

Country \*

Industry \*

Job Function \*

Company Name \*

Company Size

Project Status

Phone Number

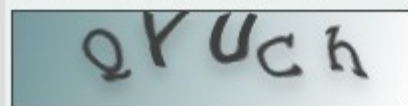
News/mail from ZK?

☒

News/mail from ZK's partner?

☒

Support/Contact from ZK?

☒

(Case Insensitive)

☐ I have read and accept the [Terms of Use](#)

disk - File Browser

mis@mis-laptop: ~

pic2.png - KSnapshot

CMSC 100 Lecture

Firefox [6]



9:00 am

2

12/2/2008







A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

DOWNLOAD THE SAMPLE [HTML FILE](#) AND [CSS FILE](#)



#### THE ROAD TO ENLIGHTENMENT

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the [W3C](#), [WaSP](#) and the major browser creators.

The css Zen Garden invites you to relax and meditate.



Fig. 11

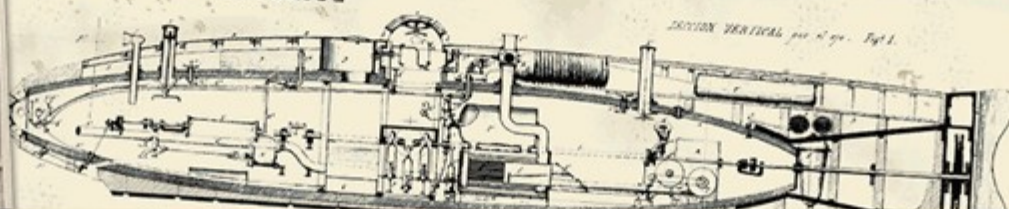


#### SELECT A DESIGN

-  **Under the Sea!**  
by Eric Stoltz
-  **Make 'em Proud**  
by Michael McAgdon and  
Scotty Reifsnyder

 **Orchid Beauty**

ICTINES-MONTURIO



SECTION VERTECAL par St. G. - Fig. 1.



# HTML

- Allows Authors to
    - \* Publish online documents with headings, text, tables, lists, photos, etc.
    - \* Retrieve online information via hypertext links, at the click of a button.
    - \* Design forms for conducting transactions with remote services, for use in searching for information, making reservations, ordering products, etc.
    - \* Include spread-sheets, video clips, sound clips, and other applications directly in their documents.
- 
-

# *HTML Document Design Considerations*

- Separate structure and presentation
    - Preferable practice: HTML document contains web page contents only, use Style Sheets to specify rendering.
  - Consider universal accessibility to the web
    - Web should be available to everyone.
    - Authors should consider variety of browsers
      - E.g. Speech-based browsers, braille browsers, etc.
  - Help User Agents(Browsers) with Incremental Rendering
- 
-

# *HTML (SGML) – Language of tags*

`<tag>Content</tag>`

`<singleton/>`

`<a>`, `<b>`, `<table>`, `<ol>`, `<hr/>`, etc...

Use tags to mark elements of the document.

---

---



# *HTML and Why The Shift to XML-based Formats*

- HTML can be written in a bad way.
  - Browsers must therefore be robust in handling “Bad HTML”
    - Implication: Browser code more complicated and larger than it should be.
  - Not standardized and browsers do not impose
- HTML is not relevant/practical in NEW environments where web access is made
  - Consider the different ways to access the Internet esp. on “devices” with limited resources.

# *XML: Ultimate Web Content Format*

- XML
    - Extensible Markup Language
    - A meta language as compared to SGML
    - Simpler and “smaller” than SGML
      - XML is simplified SGML
    - Strict
      - All XML-based documents must follow rules on **well-formedness**.
    - Standardized Parsers
    - Text Format
    - Tag-based
- 
-

# ***XML: XHTML --> HTML with an X***

- XHTML 1.0
    - Current web content trend
    - HTML with the rules of XML plus more.
    - Important Differences with HTML
      - XHTML elements (tags) are properly nested [Universal XML rule]
      - XHTML documents must be well-formed [Universal XML rule]
      - Tag names and attributes **MUST** lowercase.
      - XHTML elements (tags) must be **closed** [still on being well-formed].
      - Some HTML elements not supported, some attributes are required.
      - Doctype required.
      - Can be “mixed” with other XML documents.
      - Authors may create user-defined tags.
- 
-

# *Proliferations of XML-based formats*

- MathML
    - Mathematical equations
  - CML
    - Chemical Markup Language
  - SVG
    - Scalable Vector Graphics
  - SMIL
    - Synchronized Multimedia Integration Language
  - GML
    - G for Geographic
    - G for Geometric
  - Etc...
- 
-

# ***XML – A Must Know***

- ...we will study XML in some greater detail in future discussions.



# *Additional Readings*

- HTML 4.01 Specification (W3C)
  - <http://www.w3.org/TR/REC-html40/cover.html>
- XHTML 1.0 The Extensible Hypertext Markup Language
  - <http://www.w3.org/TR/xhtml1/>
- XHTML Tutorial -- **for your laboratory class**
  - <http://www.w3schools.com/xhtml/default.asp>

