图示

描述已自动生成

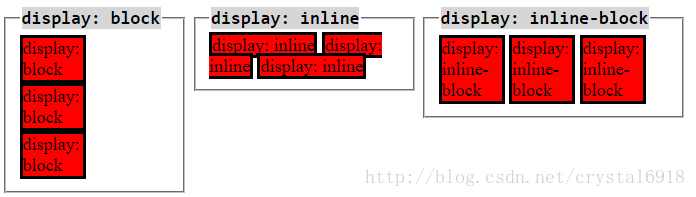
<!DOCTYPE html>

# ****Introduction to HTML5 02.02 - HTML5 Tags and Syntax****

* 所有的tag都有开始<…> and 结尾</…>
* 图片tag如下图是自闭模式
  + 图示

    描述已自动生成

## The two most common are block and inline

* 
* Block (can take width and height)
  + Newline is inserted before and after, e.g. it "Takes up" whole width
* Inline (can not take width and height)
  + Only uses as much space as needed to contain the element.

## Common Tags

* Headings (block)
  + <h1>, <h2>, <h3>, <h4>, <h5>, <h6>
  + These tags have syntax and semantics
* Paragraphs (block)
  + <p>.... </p>
  + Should only contain inline elements
  + 不能放入段落
* Divs (block)
  + <div>...</div>
  + Generic section that is larger than a paragraph
* Ordered lists有序列表
  + <ol>
  + <li> Item One </li>
  + <li> Item Two </li>
  + </ol>
  + 图标

    描述已自动生成
* Unordered lists无序列表
  + <ul>
  + <li> Item One </li>
  + <li> Item Two </li>
  + </ul>
  + 手机屏幕截图

    描述已自动生成
* Line breaks 换行符
  + <br>

## Attributes

* 属性提供有关元素的附加信息
* 始终在开始标记中指定
* 属性以名称/值对形式出现

## Images

* Images (inline)可以把多张图片放到一起
* <img src = "G1.png" alt = "这里图像出错无法显示用户将看到一段描述信息"/>
* Images rarely work the first time
* Show a broken link, too big, too small, etc.
* Save yourself heartache and size/carefully name your picture before you use it.

## More Attributes

* 适用于图片的属性（Attributes）
* As you learn the tags, you learn their specific attributes.Some apply to any tag
* class - applies special properties to groups of elements
* id - specifies a unique id to one element on the page
* style - specifies a certain visual style (avoid this one!!!)
* accesskey - a shortcut key to activate an element

## Special Entities



## HTML5速查

https://www.wpkube.com/html5-cheat-sheet/

# Introduction to HTML5 02.03 - Semantic Tags

图形用户界面

低可信度描述已自动生成

## <header>

* A group of introductory or navigational aids: title, navigation links, etc.
* <header>

<hl>This is the Title</hl>

<h2>The author is colleen</h2>

* </header>
* Not to be confused with <head> or the different headings. head tag is for metadata, and the header tag is more of just an aid.

## <nav>

* A section of the page that links to other pages or to parts within the page.
* <nav>

<ul>

<li><a href="#overview">Overview</a></li>

<li><a href="#history">History</a></li>

<li><a href="#development">Development</a>

<ul>

* </nav>
* Often found in the <header> tag

## <footer>

* A section that contains info such as copyright data, related documents, and links to social media
* <footer>

&copy; 2015 by Colleen van Lent<br>

<a href="http://www.intro-webdesign. com/HTML5">Int roduction to HTML5</a>

* </footer>
* Typically at the bottom of the page, but not required.

## <figure>

* More semantics than <img>. Can include:
  + caption
  + multiple multi-media resources
* <figure>

<img src="sunset.gif" alt = "Ashtabula sunset">

<figcaption> A sunset over Lake Erie. Taken in

Ashtabula Ohio</figcaption>

* </figure>

## Other New Tags

* Structural Elements
  + article, aside, main, menuitem, summary, section
* Form Elements
  + datalist, keygen, output
* Input Types
  + color, date, email, list
* Graphics Elements
  + canvas, svg
* Media Elements
  + audio, embed, source, track, video

# Introduction to HTML5 02.04 - Template Page

Head存储了用户不可见的页面配置

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Document</title>

</head>

<body>

</body>

</html>

# Introduction to HTML5 02.05 – Images

## Image Sizes

* When you link to an image the browser displays the image asbig (or small) as the file.
* "Quick" solutions - change file,or use width/height attributes

## Using Attributes

* Always strive to keep style out of your HTML files but...
* <img> tag includes width and height attributes

## Default Image size

<figure>img src ="imgs/Ashtabula.jpg"

    alt ="My house">

    <figcaption>Default image size</figcaption>

</figure>

## Using Width in Pixels

<figure>img src ="imgs/Ashtabula.jpg"

    width = "500px" alt ="My house">

    <figcaption>Set image size</figcaption>

</figure>

## Using Width and Height

<figure>

    <img src="imgs/Ashtabula. jpg" width="500px" height="100px" alt="My house">

    <figcaption>Skewed image size</figcaption>

</figure>

## Using Percentages（自适应化）

<figure>

    <img src="imgs/Ashtabula.jpg" width="50%" alt="My house">

    <figcaption>Relative image size</figcaption>

</figure>

## Favicons

* You can put image/logo/icon next to the title of your page (in the tab)
* Must go in <head> section
* .png only

<link rel="icon" type=" image/png" href="imgs/wd4elogo.png" />

## Alternative Text Attribute

* Provides a textual alternative to non-text content
* Read by screen readers
* Displayed in place of images
* Provides semantic meaning for search engines

## Creating Good alt text

是准确的

言简意赅

不要多余的

不包括“图片”、“图形”。

It is okay to leave alt text empty(null)

Decorative images used for non-informative purpose

Do not skip the alt attribute though!

## Review

误用文件扩展名、文件名和文件路径常常是一个问题

## Font Awesome Demo（素材库）

https://fontawesome.com/

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Font Awesome Demo</title>调用库

    <!- Link to Font Awesome CDN - Content Delivery Network -->

        <link rel="stylesheet" href="https://use. fontawesome.com/releases/v5.3.1/css/all.css"

            integrity="sha384-mzrmE5qonljUremFsqc01SB46 vROS7bZs3I02EmfFsd15uHvIt+Y8vEf7N7fWAU" crossorigin="anonymous">

</head>

<body>

    <i class="fas fa-angry"></i>定义样式 调整图标大小

    <i class="fas fa-angry fa-xs"></i>

    <i class="fas fa-angry fa-md"></i>

    <i class="fas fa-angry fa-lg"></i>

    <i class="fas fa-angry fa-2x"></i>

    <i class="fas fa-angry fa-3x"></i>

    <i class="fas fa-angry fa-5x"></i>

<i class="fas fa-angry fa-10x"></i>

<a href="网址链接" aria-label="Twitter" ><i class="fas fa-angry fa-10x"></i></a>后接aria-label表明社交软件带连接的图标

</body>

</htm>

# Introduction to HTML5 02.06 - Hyperlinks

## Anchor links

<a href="http://www.umich.edu">University of Michigan</a>

* The <a> tag stands for anchor link
* Needs a hyper-reference AND content
  + href: reference to location of new content
  + content: the "clickable" part (text or image)
  + 图示

    描述已自动生成

**Types of links**

* Absolute
* Relative
* Internal
* Graphical

## Relative References

图形用户界面, 文本, 应用程序

描述已自动生成

## Targets

* Anchors can take a target attribute
  + \_self -default action
  + \_blank - open in new tab or window
  + \_top and \_parent

# Introduction to HTML5 02.07 - Multimedia

## Video element <video>

* Video tag uses a src attribute or embedded <source>
* Common attributes
  + height, width
  + autoplay自动播放
  + loop循环
  + controls视频可控制
* Text inside <video>..</video> is displayed if browser can not support tag

## Audio element <audio>

* Audio tag uses a src attribute to link to audio file, typically .mp3 or .wav
* Common attributes
  + autoplay, controls, loop
  + buffered
  + muted
  + volume

Setting clips

* You can set both the video and audio elements to play clips by adding to the src attribute.
  + .ext#t=5, 25只希望播放到5分25秒
  + .ext#t=, 39只希望播放前39秒
  + .ext#t=, 1:38:45 从1分38秒开始一直到45秒
  + .ext#t=42从第42秒开始播放

示例代码

<h1>Video</h1>

<video src="BoxCar.MOV" width="400" controls loop>视频下添加一个控制条autoplay则是自动播放

    Your browser does not support the <code>video</code> element.

</video>

<br>

<h1>Audio</h1>

<audio src="https://upload.wikimedia.org/wikipedia/commons/0/04/Pyotr\_ilyich\_Tchaikovsky\_1812\_overture.ogg" controls>

    Pyotr ilyich Tchaikovsky - 1812 overture

</audio>

<br>

# Introduction to HTML5 02.08 - Tables

## Simple Table

文本, 表格

描述已自动生成

<table>

<tr>

<th>Row One</th>

<th>Row Two</th>

<th>Row Three</th>

</tr>

<tr>

        <td>One</td>

        <td>Two</td>

        <td>Three</td>

    </tr>

    <tr>

        <td>Four</td>

        <td>Five</td>

        <td>Six</td>

    </tr>

    <tr>

        <td>Seven</td>

        <td>Eight</td>

        <td>Nine</td>

    </tr>

</table>

## Table Headings

* How would you add table headings? (The bold cells at the top that define the data.)
* Some people use bold font, we use semantic tags
* <th>..</th> -- table heading

## Spanning Multiple Cells

* It may be the case that your table won't be a perfect grid.
* You can combine multiple rows and/or columns using the rowspan and colspan attributes.

# Introduction to HTML5 02.09 - Useful Tags

## Choosing Your tags

* Generic: <p>, <div>
* Semantic: <header>, <nav>, <footer>, <figure>

## Block Tags

* Containers
  + <article>, <aside>, <section>, <main>,
* <hr>
* <address>
* <blockquote> - has cite attribute
* <details> with <summary>

<https://intro-webdesign.com/HTML5/week2/02-09-common-block-tags.html>

## Inline tags

* <span> was the original inline tag for plain text
* <cite>
* <abbr>
* <time>
* <code>
* <sub> and <sup>

<https://intro-webdesign.com/HTML5/week2/02-09-common-inline-tags.html>

## Tags that need "more"

* <button>
* <meter>
* <progress>
* <iframe> - often used to embed documents
* <bdo> attribute dir (Itr or rtl)
* <map> with <area> -- creates "clickable element in image" but needs JavaScript

<https://intro-webdesign.com/HTML5/week2/02-09-special-tags.html>

# Introduction to HTML5 03.01 - Accessibility

# Introduction to HTML5 03.02 - Validating Your Site

验证网站语法：

<https://validator.w3.org/>

验证网页可访问性：

<https://wave.webaim.org/>

## 03.02a - Wave

## 03.02b - Funkify

# Introduction to HTML5 03.03 - Hosting Your Site

https://byet.host/free-hosting/news

# Introduction to HTML5 03.04 - cPanel

## public\_html

* Your site will have a lot of files, some that you want people to see, some that you don't.
* Uploading files to the public\_html folder should make them viewable to the public
* Please take a note of the details below these are needed to access your account.
* Your account is now active.
* Control panel username: b6\_32164168
* Control panel password: Zyx707096.
* Control panel URL: cpanel.
* MySQL username b6\_32164168
* MySQL password: Zyx707096.
* MySQL hostname: .
* FTP username: b6\_32164168
* FTP password: Zyx707096.
* FTP host name: ftpupload.net
* pot: 21
* Your Website URL: http://yzhao72.byethost6.com
* 托管终端： http://panel.byethost.com/panel/indexpl.php
* Thank you for choosing us to host your websites!
* hosting services 2022

## 3.04a - Creating a GitHub Pages Account