	- JPEGs or GIFs best	- Named
## Lecture 1	- Tables ```html	- RGB - Hex
		- HSL with optional opacity value
### Web Main Components	Saturay	- Fonts - Properties
- Client with Web Browser - Internet	Sunday	<ul> <li>font-family (specify order of preferenct)</li> </ul>
- Internet - Web Server	<	<ul> <li>font-style (normal, italic or oblique)</li> <li>font-variant (normal, small-caps)</li> </ul>
### Internet	1	<ul> <li>font-weight (normal, bold, bolder, lighter)</li> <li>font-size</li> </ul>
### Internet	\td>1	- Absolute
- Transmission Control Protocol/Internet Protocol (TCP/IP)	Total calos	<ul><li>mm, cm, in, pt, pc</li><li>Relative</li></ul>
- Same for all computers	Total sales >1	- Percentage
- Allows for data exchange between computers	\td>1	<pre>- em (1em == 100% == font-size of parent element)</pre>
<ul> <li>Tolerates unreliable sub-networks</li> <li>Guarantees proper data transmission, since the</li> </ul>		- rem
phisical network can't - Layers	- Use colspan="2" on row to span two columns	- Can use pixels or keywords - Text
- Application (HTTP, telnet, ftp, email, VoIP)	- Use rowspan="2" on row to span two rows	- text-indent (amount of indentation using absolute
<ul> <li>Ability to access services of other layers</li> <li>Defines protocols for data exchange</li> </ul>	<ul> <li>Tags for accessibility, indexing and desgn purposes:</li> </ul>	<pre>length or percentage)   - text-align (left, center, right, justify)</pre>
- Transport (TCP, UDP)	- ` <thead>`</thead>	<ul> <li>text-decoration (non, underline, overline, line-</li> </ul>
<ul> <li>Responsible for end-to-end message delivery</li> <li>Internet/Network (IP)</li> </ul>	- `` - ` <tfoot>`</tfoot>	through) - etc.
- Routing messages	- Site maps	- The Box Model
<ul> <li>All routers run on the IP protocol</li> <li>Physical (Ethernet, WiFi, ATM, x.25, Frame</li> </ul>	<ul> <li>Website guide</li> <li>Should not require further user interaction</li> </ul>	- Margin - Border
Relay)	- When to use	- Padding
- Translates message into physical representation	<ul> <li>Large site</li> <li>Large archive, isolated pages, etc.</li> </ul>	- Content - Overflowing Content
- Puts messages on the wire/wireless network/fiber-optic wire	- New site and few external links	- What to do if the content is largen than the box
- Addressing Schemes (where to go)	- When not to use	itself? - hidden, overflow, scroll, etc.
- Unique address required		- Borders
<ul><li>Internet Protocol (IP) address</li><li>Ex.: 205.46.117.104 (each between 0 and 255)</li></ul>	- Comprehensive linking - Few media files	<ul> <li>border-width: 1px 4px 12px 4px (clockwise starting from the top)</li> </ul>
- Domain names (human understandable) - DNS: The phonebook of the internet	### URLs	<ul> <li>Border styles:</li> <li>solid, dotted, dashed, double, groove, ridge,</li> </ul>
- Naming system		inset, outset
- Associates domain names (human readable) with IP addresses		- Ex.: border-style: dotted solid double (top inline bottom)
	http://www.example.com/path/to/myfile.html?key1=value1	- Padding
- 1985 - Routing Traffic Across the internet (how to go)	<pre>&amp;key2=value2 http:// indicates protocol (http default)</pre>	- Space between the content and its border - Margin
- The World Wide Web (WWW)	- www.exmaple.com is the domain name	- Gap between boxes
- Geneva, 1989 - System of interconnected hypertext documents	<ul><li>/path/to/myfile.html is path to resource on server</li><li>?key1=value1&amp;key2=value2 are extra query</li></ul>	- Change inline/block - `display: inline` - turn a block element into an
- A distributed hypertext system	parameters (key/value pairs separated with &)	inline one
<ul> <li>Set of common communication protocols</li> <li>Multi-platform</li> </ul>	- GET method - Request data from a specified resource	- Hiding - `visibility: hidden` hides the element but it
- Hypertext: method of organizing information	- Query strings	leaves a space where it would have been
<ul> <li>Gives the reader control over the order in which the information is presented</li> </ul>	- Can be cached - Remain in browser history	- Border Images 1. The url of the image
- HTML	- Can be bookmarked	2. Where to slice the image
<ul> <li>Markup: structure</li> <li>Publishing language of the World Wide Web</li> </ul>	<ul> <li>Can be distributed and shared</li> <li>Have length restrictions (max URL length)</li> </ul>	<ol> <li>What to do with the straight edges</li> <li>Stretch</li> </ol>
- HTML 5 newest	- Can be hacked	2. Round
- ` <body>` Everything inside is shown in browser window</body>	- POST requests - Sent as a separate message	- Box Shadows - Horizontal offset
- `chead>`	- Never cached - Used for sensitive data	- Vertical offset - Blur distance
<ul><li>Information about the page</li><li>'<title>', charset, etc.&lt;/li&gt;&lt;/ul&gt;&lt;/td&gt;&lt;td&gt;- No max length&lt;/td&gt;&lt;td&gt;- Spread of shadow&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;- `&lt;title&gt;` - Shown in the top of the browser&lt;/td&gt;&lt;td&gt;- URL anchor&lt;/td&gt;&lt;td&gt;- `p.one { box-shadow: -5px -5px #777777; }` - Position&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;- Attributes&lt;/td&gt;&lt;td&gt;&lt;math display="block"&gt;\verb to/myfile.html?key1=value1&amp;key2=value2 \#SomewhereIr  \\&lt;/math&gt;&lt;/td&gt;&lt;td&gt;- position: static&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;- Additional information to elements (name=value)&lt;/td&gt;&lt;td&gt;TheDocument&lt;/b&gt; - Anchor to part of th resource itself&lt;/td&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;Default&lt;/li&gt;     &lt;li&gt;Each block element sits on top of the next one&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;## Lecture 2&lt;/td&gt;&lt;td&gt;## Lecture 3 - CSS&lt;/td&gt;&lt;td&gt;- position: relative&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;### HTML structure&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;Moves an element in relation to where it would&lt;br&gt;have been in normal flow&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;```html&lt;/td&gt;&lt;td&gt;- XHTML is a stricter version of HTML - Recommended for accuracy reasons&lt;/td&gt;&lt;td&gt;&lt;ul&gt;&lt;li&gt;top, left, right, bottom, etc.&lt;/li&gt;&lt;li&gt;position: absolute&lt;/li&gt;&lt;/ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;!DOCTYPE html&gt;&lt;/td&gt;&lt;td&gt;- The Problems with HTML&lt;/td&gt;&lt;td&gt;- Box is taken out of normal flow&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;html&gt; &lt;head&gt;&lt;/td&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;No consistency&lt;/li&gt;     &lt;li&gt;Can omit attributes, etc. (poorly written code)&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;position: fixed&lt;/li&gt;     &lt;li&gt;Position in relation to the browser window&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;meta charset="UTF-8" /&gt;&lt;/td&gt;&lt;td&gt;- Coding design&lt;/td&gt;&lt;td&gt;- Overlapping&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;title&gt;Title of my webpage</title> </li></ul>	- ` <font>` - Compatibility</font>	<ul> <li>relative, fixed, absolute&gt; boxes can overlap</li> <li>Later element sits on top of older</li> </ul>
<body> Hello there</body>	<ul> <li>Cross-platform compatibility has been degraded (different browsers, etc.)</li> </ul>	- Specify order with z-index - Floating elements
	- Solution: Separate Structure from Appearance	- Allows you to take an element in normal flow and
		place it as far to the left/right as it goes - Table properties
	- Types	- width
<pre>- `<!DOCTYPE html>    `: Document Type Definition (DTD) - `<meta charset="utf-8"/>`</pre>	<ul><li>External style sheet (included in `<head>`)</head></li><li>Internal style sheet</li></ul>	<ul><li>padding</li><li>letter-spacing, font-size</li></ul>
- Character encoding	- Inline style	- border-top/bottom
<pre>- Can also have: - `<meta name="description"/>`</pre>	<ul> <li>How does CSS work?</li> <li>Web browsers assume a default set of values for</li> </ul>	- :hover - Display style
- ` <meta name="keywords"/> ` - ` <meta name="author"/> `	each property - CSS defines an extensive set of presentation	- none - block
- Etc.	properties	- inline
- Tags can be one-sided or two-sided - ` - comment `: The comment tag	- A CSS style sheet changes that default rendering - Use !important to override	<ul><li>inline-block</li><li>inline-table</li></ul>
- HTML treats white-space as a single blank space	- Rules with same origin conflict> more specific	- inherit
- Exception: the ` <pre>` tag - Inline elements</pre>	applies - Equally specific -> last is chosen	- list-item - run-in
- Displayed without starting a new line	- Style prioritization: inline > embedded > external	- table
- ` <b>`, ``, `<a>`, `<img/>`, etc. - Block elements</a></b>	<pre>- Inheritence - `<h1>The headline <em>is</em> important!</h1>`</pre>	- table-caption - table-cell
- Start and ends with new line	- If h1 has color blue, em gets color blue	- table-column
- Ex.: ` <h1>`, ``, `<ul>`, ``, etc Grouping tags</ul></h1>	<ul> <li>Only some styles are inherites (font-family, text- alignment, etc.)</li> </ul>	- table-footer-group
- ` <span>` (inline)</span>	- Others are not (padding, etc.)	- table-header-group
- ` <div>` (block) - Semantic Markup (logical elements)</div>	<ul> <li>Multiple declarations</li> <li>Several `h1` declarations will be merged</li> </ul>	- table-row - table-row-group
- ` <q>`/`<blockquote>` - `<abbr>`</abbr></blockquote></q>	- Grouping	## Lostupe F
	- Comma-separated selectors will give all the came	
- ` <address>`</address>	- Comma-separated selectors will give all the same declaration	
- Lists	<pre>declaration - Selecting elements - `*` - universal</pre>	### Flexbox
<ul><li>Lists</li><li>ordered `<ol>`</ol></li><li>unordered `<ul>`</ul></li></ul>	<pre>declaration     Selecting elements</pre>	### Flexbox - Parent properties
- Lists - ordered ' <ol>' - unordered '<ul>' - unordered '<ul>' - definition '<ul>' - '<ul> - '<u< td=""><td><pre>declaration - Selecting elements - `*' - universal - `h2` - type selector - `.element' - class selector - `#elementID' - ID selector</pre></td><td>### Flexbox  - Parent properties - `display: flex` enables flex context for all direct children</td></u<></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ol>	<pre>declaration - Selecting elements - `*' - universal - `h2` - type selector - `.element' - class selector - `#elementID' - ID selector</pre>	### Flexbox  - Parent properties - `display: flex` enables flex context for all direct children
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- lists - ordered ' <ol> - ordered '<ol> - unordered '<ul> - unordered '<ul> - unordered '<ul> - vdt&gt;' for the term - '<dd>' for the definition of the term (below, not inside) - Can be nested - Styled list: '<ol '<a="" -="" href="http://exmaple.com" links="" style="list-style-type: upper-roman"> - When linking to page within the same site, you car use a relative URL - Can link to elements with id: http://www.sundance.org/#jumbotron - Images - src_: path to image - src_: text description, for accessibility and</ol></dd></ul></ul></ul></ol></ol>	declaration - Selecting elements - '*' - universal - 'h2' - type selector - '.element' - class selector - 'pa' - descendant selector - 'div[style]', 'input[type="text"]' - attribute selector - 'one > two' - immediate child selector - 'h2+p' - adjacent sibling selector, same parent - 'h2+p' - general sibling selector (does not have to be adjacent) - 'a:visited', 'a:hover' - pseudo-class - Selects an element based on a state the element is in - 'p::first-letter', 'p::before' - pseudo-element - Used to add special effects to some selectors - Represents elements that are not really part of the rendered HTML	### Flexbox  - Parent properties - 'display: flex' enables flex context for all direct children - 'flex-direction: row (default)   row-reverse   column   column-reverse; - 'flex-wrap: nowrap (default)   wrap   wrap-reverse;' - 'flex-flow: column wrap;' - shorthand for 'flex-direction' and 'flex-wrap - 'justify-content: flex-start (default)   flex-end   center   space-between   space-around   space-evenly   start   end   left   right + safe   unsafe;' - alignment along the **main axis** - 'align-items: stretch   flex-start   flex-end   center   baseline   first baseline   last baseline
- lists - ordered ' <ol> - ordered '<ol> - unordered '<ul> - unordered '<ul> - vdt' for the term - '<dd' #jumbotron="" '<a="" '<ol="" (below,="" -="" a="" accessibility="" and="" be="" can="" car="" definition="" description,="" elements="" for="" href="http://exmaple.com" http:="" id:="" imagedt_:="" imagesrc_:="" imagessrc_:="" indexing="" inside)="" link="" linking="" links="" list:="" nested="" not="" of="" page="" path="" purposes<="" relative="" same="" site,="" style="list-style-type: upper-roman" styled="" td="" term="" text="" the="" to="" url="" use="" when="" with="" within="" www.sundance.org="" you=""><td>declaration - Selecting elements - '*' universal - 'h2' - type selector - '.element' - class selector - 'p a' - descendant selector - 'j a' - descendant selector - 'div[style]', 'input[type="text"]' - attribute selector - 'one &gt; two' - immediate child selector - 'h2+p' - adjacent sibling selector, (does not have to be adjacent) - 'aivisited', 'a:hover' - pseudo-class - Selects an element based on a state the element is in - 'p::first-letter', 'p::before' - pseudo-element - Used to add special effects to some selectors - Represents elements that are not really part of the rendered HTML - Creates new virtual elements</td><td>### Flexbox  - Parent properties</td></dd'></ul></ul></ol></ol>	declaration - Selecting elements - '*' universal - 'h2' - type selector - '.element' - class selector - 'p a' - descendant selector - 'j a' - descendant selector - 'div[style]', 'input[type="text"]' - attribute selector - 'one > two' - immediate child selector - 'h2+p' - adjacent sibling selector, (does not have to be adjacent) - 'aivisited', 'a:hover' - pseudo-class - Selects an element based on a state the element is in - 'p::first-letter', 'p::before' - pseudo-element - Used to add special effects to some selectors - Represents elements that are not really part of the rendered HTML - Creates new virtual elements	### Flexbox  - Parent properties
- lists - ordered ' <ol> - ordered '<ol> - unordered '<ul> - unorde</ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ol></ol>	declaration - Selecting elements - '*' - universal - 'h2' - type selector - '.element - class selector - 'melementID' - ID selector - 'p a' - descendant selector - 'div[style]', 'input[type="text"]' - attribute selector - 'one > two' - immediate child selector - 'h2+p' - adjacent sibling selector, same parent - 'h2-p' - ageneral sibling selector (does not have to be adjacent) - 'avisited', 'a:hover' - pseudo-class - Selects an element based on a state the element is in - 'p::first-letter', 'p::before' - pseudo-element - Used to add special effects to some selectors - Represents elements that are not really part of the rendered HTML - Creates new virtual elements - Specificity Value - Style attribute > ID > Class, pseudo-class,	### Flexbox  - Parent properties         - 'display: flex' enables flex context for all direct children         - 'flex-direction: row (default)   row-reverse   column   column-reverse;         - 'flex-wrap: nowrap (default)   wrap   wrap-reverse;         - 'flex-flow: column wrap; - shorthand for 'flex-direction' and 'flex-wrap         - 'yustify-content: flex-start (default)   flex-end   center   space-betwen   space-around   space-evenly   start   end   left   right + safe   unsafe; - alignment along the "main axis"         - 'align-items: stretch   flex-start   flex-end   center   baseline   first baseline   last baseline   start   end   self-start   self-end + safe   unsafe; - alignment along the "cross axis"
- lists - ordered ' <ol> - ordered '<ol> - unordered '<ul> - unordered '<ul> - unordered '<ul> - vdt' for the term - '<dd' '<dd'="" '<ol="" (below,="" -="" be="" can="" definition="" for="" inside)="" list:="" nested="" not="" of="" style="list-style-type: upper-roman" styled="" term="" the=""> - Links - '<a href="http://exmaple.com"> - When linking to page within the same site, you car use a relative URL - Can link to elements with id: http://www.sundance.org/#jumbotron - Imagessrc_: path to imagealt: text description, for accessibility and indexing purposes - Specifying height/width nice so that the browser can render the rest of the page while leaving room - Either as attributes or CSS - Measure images in pixels</a></dd'></ul></ul></ul></ol></ol>	declaration - Selecting elements - '*' - universal - 'h2' - type selector - '.element' - class selector - 'MelementID' - ID selector - 'p a' - descendant selector - 'div[style]', 'input[type="text"]' - attribute selector - 'one > two' - immediate child selector - 'h2+p' - adjacent sibling selector, same parent - 'h2-p' - general sibling selector (does not have to be adjacent) - 'aivisted', 'a:hover' - pseudo-class - Selects an element based on a state the element is in - 'p::first-letter', 'p::before' - pseudo-element - Used to add special effects to some selectors - Represents elements that are not really part of the rendered HTML - Creates new virtual elements - Specificity Value - Style attribute > ID > Class, pseudo-class, attribute > Elements	### Flexbox  - Parent properties         - 'display: flex' enables flex context for all direct children         - 'flex-direction: row (default)   row-reverse   column   column-reverse;         - 'flex-wrap: nowrap (default)   wrap   wrap-reverse;         - 'flex-flow: column wrap; - shorthand for 'flex-direction' and 'flex-wrap         - 'yustify-content: flex-start (default)   flex-end   center   space-betwen   space-around   space-evenly   start   end   left   right + safe   unsafe; - alignment along the "main axis"         - 'align-items: stretch   flex-start   flex-end   center   baseline   first baseline   last baseline   start   end   self-start   self-end + safe   unsafe; - alignment along the "cross axis"
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- lists - ordered ' <ol> - ordered '<ol> - unordered '<ul> - unordered '<ul> - ordered '<ul> -</ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ul></ol></ol>	declaration - Selecting elements - '*' - universal - 'h2' - type selector - '.element' - class selector - 'p a' - descendant selector - 'p a' - descendant selector - 'div[style]', 'input[type="text"]' - attribute selector - 'one > two' - immediate child selector (does not have to be adjacent) - 'alysited', 'a:hover' - pseudo-class - Selects an element based on a state the element is in - 'p::first-letter', 'p::before' - pseudo-element - Used to add special effects to some selectors - Represents elements that are not really part of the rendered HTML - Creates new virtual elements - Specificity Value - Style attribute > ID > Class, pseudo-class, attribute > Elements  ## Lecture 4 - CSS properties - Colors - Properties - color	### Flexbox  - Parent properties         - 'display: flex' enables flex context for all direct children         - 'flex-direction: row (default)   row-reverse   column   column-reverse;         - 'flex-wrap: nowrap (default)   wrap   wrap-reverse;         - 'flex-flow: column wrap; - shorthand for 'flex-direction' and 'flex-wrap         - 'yustify-content: flex-start (default)   flex-end   center   space-betwen   space-around   space-evenly   start   end   left   right + safe   unsafe; - alignment along the "main axis"         - 'align-items: stretch   flex-start   flex-end   center   baseline   first baseline   last baseline   start   end   self-start   self-end + safe   unsafe; - alignment along the "cross axis"
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