

# WEEK 4: STYLING HTML

INFO/CS  
1300: Fall  
2016

# COURSE MAP

Topic Area	Dates	Goals	Assignments
Introduction and Infrastructure	8/24 – 8/26	1-5	All
HTML & Structure	8/29 – 9/9	1,2	Brief Assignments
CSS & Presentation	9/12 – 9/30	2	
Client-Side Scripting: JavaScript & jQuery	10/3 – 10/21	3	
Server-Side Scripting: PHP	10/24 – 11/4	3	
Basic User Testing	11/7 – 11/18	4	Final Project
Taking a Site Live	11/21 – 12/2	1-5	

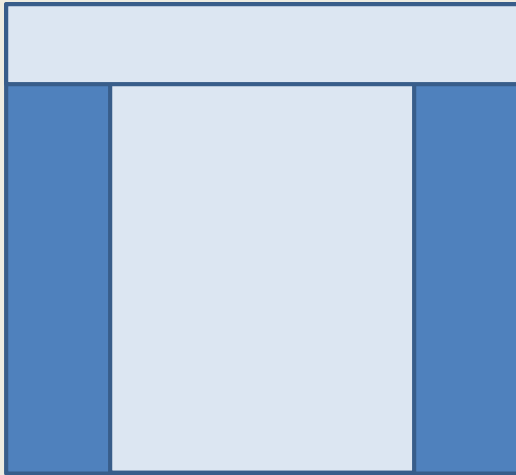
# AGENDA

- Brief re-orientation.
- CSS introduction.
- Basic design principles.
- Code sample.

# RE-ORIENTING

- Web infrastructure involves necessary complexity.
- Back-up/repo. Back-up/repo. Back-up/repo.
  - Never pull code from production server for editing.
  - Transfer to production server is a one-way trip.
- For many students, most difficult material is at beginning of course.
- What is the baseline set of styling expectations?

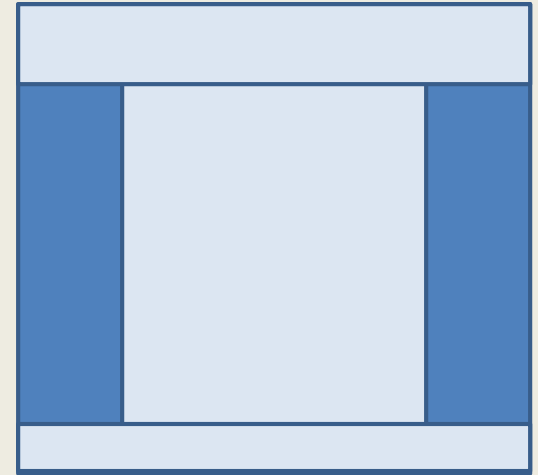
# BASIC PAGE LAYOUTS



**T-Frame**



**C-Frame**



**I-Frame**

**These are Steve-isms!**

# CSS VOCABULARY

- Cascading: browser default > user-defined > site
- Rule: describes style information for one or more elements.
- Selector: lists the elements to which the rule applies.
- Declaration: contains the styling information.

```
body { background-color: #dddddd; }
```



Selector



Declaration

# GENERAL STYLING APPROACH

- NEVER allow horizontal scrolling of text.
- In a navigation bar, OK to style links.
- In body of text, use default link styling.
- Animation/interaction must serve a purpose beyond eye candy. Think of it this way:
  - This animation/interaction will allow users to...
  - This animation/interaction will inform users that...
  - It's fun the first time a user sees it. But by the 100<sup>th</sup> time?
- Avoid thick or prominent borders around images, tables, etc.
- Use accessible color pallets.

# GRID MODEL

## HTML vs. XML: A Tale of Two Standards

[HTML Specification](#)   [HTML Validator](#)   [XML Specification](#)   [XML Validator](#)



vs.



### So What's the Difference?

HTML and XML offer different feature sets for Web developers. HTML provides a fixed set of structural elements to mark up headings, paragraphs tables, etc. XML, in contrast, provides extensibility, allowing developers to create new elements as needed. Just as importantly, XML provides *semantic* markup, i.e., an indication of what the content of an element *means*.

A couple of sample tags will illustrate. The HTML tag simply tells us that the text is a heading. The XML tag tells us that the content of the text describes the author:

- HTML: `<h2>George R.R. Martin</h2>`
- XML: `<author>George R.R. Martin</author>`

Both Specifications ([HTML Specification](#), [XML Specification](#)) are maintained by the [World Wide Web Consortium \(W3C\)](#). There is also a free, online validator available for each language ([HTML validator](#), [XML validator](#)).

### Feature Comparison

	HTML	XML
Structure	yes	yes
Semantic Description	limited	yes
Extensibility	no	yes
Stylable	yes	yes
Browser Support	yes	limited

Table 1: Feature Comparison



# CRAP!

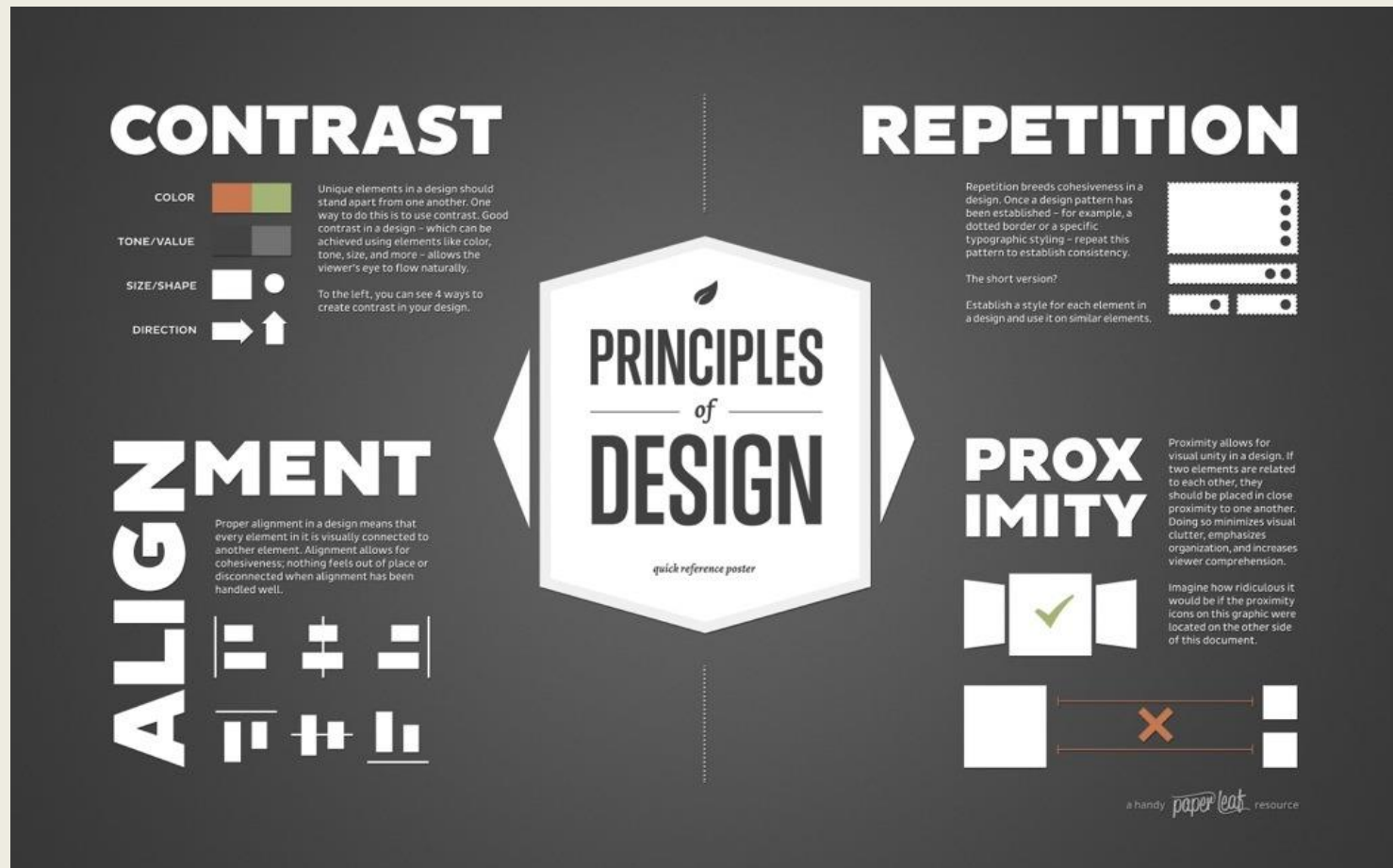
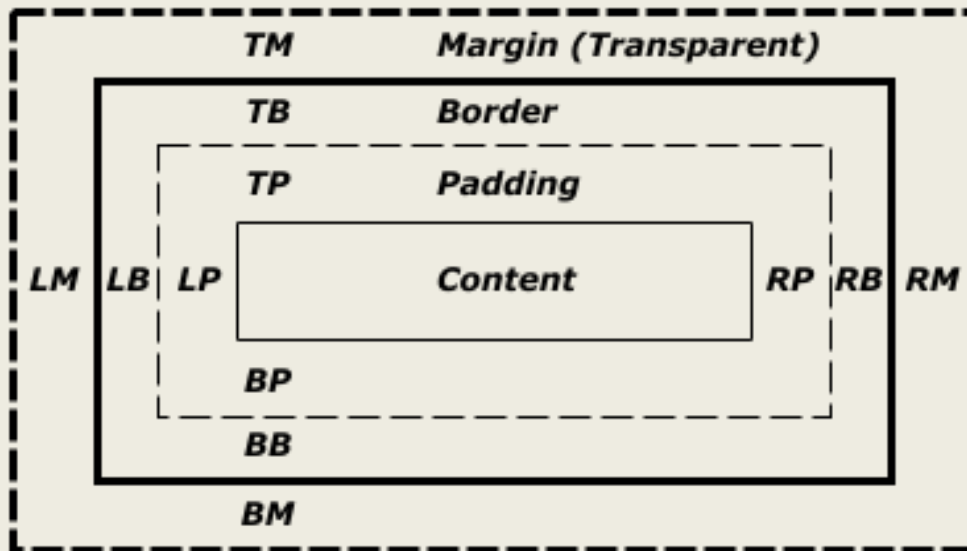


Image from: <https://grantcoombs.wordpress.com/2013/02/14/principles-and-elements-of-design/>

# CSS BOX MODEL



- Margin edge
- Border edge
- Padding edge
- Content edge

Image from: <https://www.w3.org/TR/CSS2/box.html>