# Building a Web Page with HTML

Lists and Tables



#### HTML Review

- HTML specifies webpage content < HTML >
- HTML metadata tags
  - <head> <title>
- HTML content sectioning
  - <body> <h1> <h2>
- HTML text content
  - More than the paragraph we've seen
  - Lists and tables

will explore now



seen these previously



## Simple Lists

- Some lists use circles or bullets
  - These are unordered lists, tag:
  - Content viewed in order, list labels all the same

#### Duke: Learn to Pr

We are pleased to introduce you to the first course in learning to pr In the first course you'll learn about:

- How computing and programming are changing the world.
- Internet and the Web
- HTML and CSS to create web pages
- Javascript to create images and to process data

Before you begin programming with Java.



## Simple Lists

- Some lists use circles or bullets
  - These are unordered lists, tag:
  - Content viewed in order, list labels all the same
    - For later: labels can be changed with CSS

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Before you begin programming with Java.



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           changing the world.
       Internet and the Web
       HTML and CSS to create web pages
       Javascript to create images and
           to process data

    How computing and programming are changing th

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    HTML and CSS to create web pages

    Before you

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## Constructing an HTML List

Inside must have sequence of elements

```
    <!i>How computing and programming are
        changing the world.

    <!i>Internet and the Web

    <!i>HTML and CSS to create web pages

    <!i>Javascript to create images and to
```



### Constructing an HTML List

Inside 
 must have sequence of

```
</i> elements
```



## Constructing an HTML List

- Inside must have sequence of elements
  - Anything between 
     li> elements, not just text: <img>, <a href>, , ...

```
    How computing and programming are
        changing the world.

    Internet and the Web

    HTML and CSS to create web pages

    Javascript to create images and to
```



## Creating Order in HTML Lists

- May want ordered list
  - Numbers can be important
  - Also possible: letters
- is ordered list
  - required
  - Automatic numbering
    - Add, remove
    - Numbers change

- 1. Apple
- 2. Watermelon
- 3. Guava
- 4. Raspberry
- 5. Fig

```
HTML
▼ 
  Apple
  Watermelon
  Guava
  Raspberry
 Fig
```



#### List Elements of ...

- We can compose HTML elements
  - Composition important concept in Computer Science and other disciplines
  - Construct web pages with elements that can

contain other elements

lists of images



list of lists





- - bullets "change"
  - Indentation helps

- Capital Cities
  - Beijing
  - Moscow
  - Madrid
  - Bogota
- Large Cities
  - Sao Paulo Neighborhoods
    - Centro
    - Higienópolis
    - Jardins
  - Karachi
  - Mumbai



- - bullets "change"
  - Indentation helps
    - Reading HTML

```
Capital Cities
  Beijing
   Moscow
  Madrid
   Bogota
  Large Cities
  <l
   Sao Paulo
    <br> Neighborhoods
    Centro 
     Higienópolis 
     Jardins 
    Karachi
   Mumbai
```



- - bullets "change"
  - Indentation helps
    - Reading HTML
- Composing ul>
  - Between

```
Capital Cities
   Beijing
   Moscow
   Madrid
   Bogota
 Large Cities
  <l
   Sao Paulo
    <l
     Centro 
       Higienópolis 
     Jardins 
   Karachi
   Mumbai
```



- - bullets "change"
  - Indentation helps
    - Reading HTML
- Composing ul>
  - Between

http://codepen.io/duketeam/full/JdadJg

```
Capital Cities
  <l
   Beijing
   Moscow
  Madrid
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  Large Cities
  Sao Paulo
    <br> Neighborhoods
    <l
     Centro 
     Higienópolis 
     Jardins 
    Karachi
   Mumbai
```



- Tables information in rows and columns
  - General organization? CSS preferred
- Tables constructed from HTML elements that correspond to visible table

```
SweetSourSaltyMilkYogurtSardinesPineappleKimchiSalamiGrapeVinegarPickles
```



HTML table elements

SweetSourSaltyMilkYogurtSardinesPineappleKimchiSalamiGrapeVinegarPickles

```
Sweet
Sour
Salty
 Milk 
Yogurt 
 Sardines 
 Pineapple 
 Kimchi 
 Salami 
Grape 
 Vinegar 
 Pickles
```



- HTML table elements

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```

```
Sweet
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 Pickles
```



- HTML table elements

  - contains rows <//r>

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```

```
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- HTML table elements

  - contains rows <//l>

```
SweetSourSaltyMilkYogurtSardinesPineappleKimchiSalamiGrapeVinegarPickles
```

```
Sweet
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```



- HTML table elements

  - contains rows <//l>
- Rows contain
  - header elements

```
SweetSourSaltyMilkYogurtSardinesPineappleKimchiSalamiGrapeVinegarPickles
```

```
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 Pickles
```



- HTML table elements

  - contains rows <//l>
- Rows contain
  - header elements
  - table cells

```
SweetSourSaltyMilkYogurtSardinesPineappleKimchiSalamiGrapeVinegarPickles
```

```
Sweet
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```

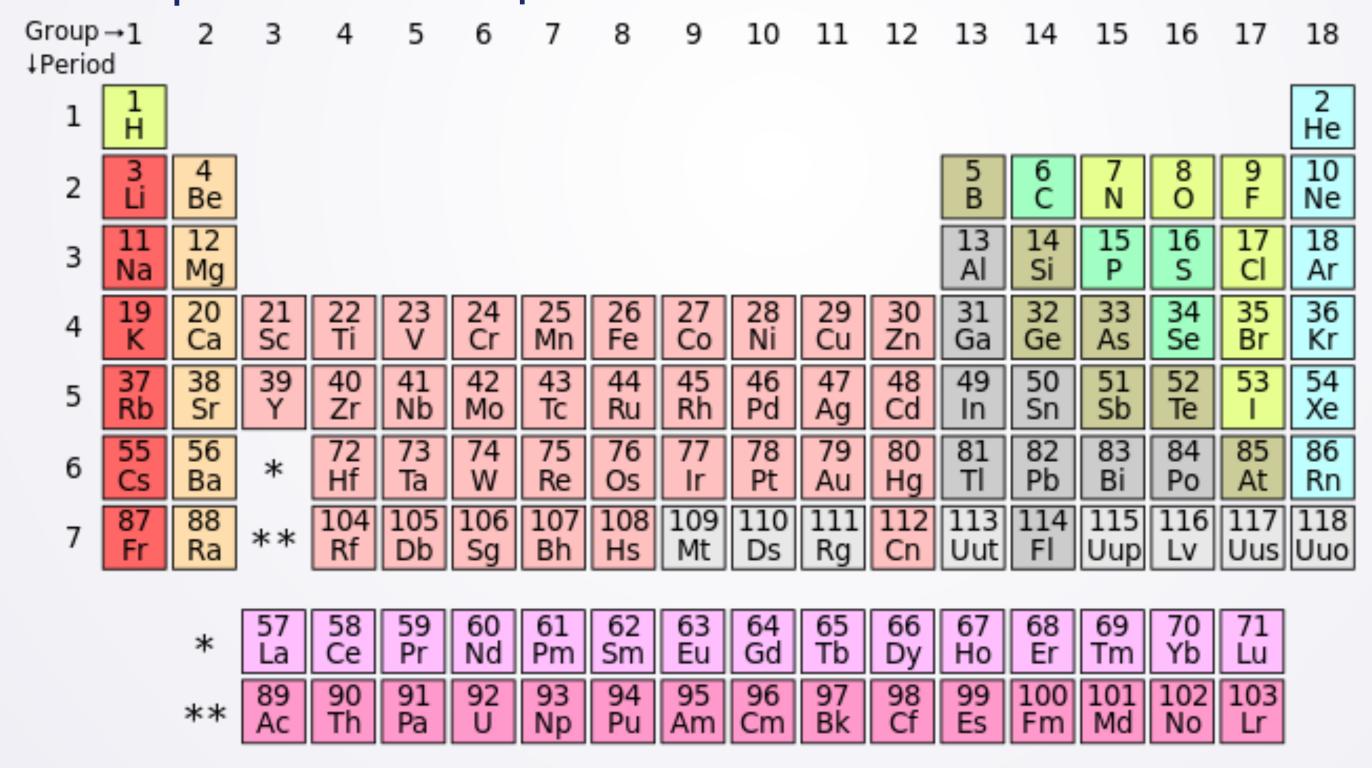


- HTML tables and lists help organize information
  - From simple





- HTML tables and lists help organize information
  - From simple to complex





- HTML tables and lists help organize information
  - From simple to complex
  - elements can contain tables
  - elements can contain lists

```
<
<td><
<tol>

<ti></tol>
```



- HTML tables and lists help organize information
  - From simple to complex
  - elements can contain tables
  - elements can contain lists
- Composition key principle of Computer
   Science from HTML to Programming
  - Create, Design, Build

