

## ECS 89

4/11

## Announcements

- First program due Tuesday
- Special office hours: 12-2 today, 2123 Kemper
  
- Where should you be by now?
  - ▣ Reading in data, putting out rows with report function
  - ▣ Writing out Web page without a chart
  - ▣ Starting to get data into charts, then into page

## Writing out a Web page

- Let's write an object-oriented program that produces a Web page.
- Need to write out a file that is an HTML file

```
class makeHTML:  
    def __init__(self,filename):  
        self.f = open(filename,"w")
```

## Write out lines of HTML...

```
def makeHead(self,menu):  
    self.f.write("<!doctype HTML>\n")  
    self.f.write("<html><head>\n")  
    self.f.write("<title>"+menu.title+"</title>\n")  
    self.f.write("</head>\n")
```

## Need to use this in the program

```
def main():  
    myMenu = Menu()  
    webPage = makeHTML("webMenu.html")  
    webPage.makeHead(myMenu)
```

## Make the Web page look nicer

- Add a style sheet
  - <link rel="stylesheet" href="plain.css" />
  
- This goes in the head of the HTML page
- Need to change Python program to add it...
- Another file, in yet another language (CSS) defines how the page ends up looking

## Choose a font

```
body {  
    font-family: Verdana, sans-serif;  
}
```

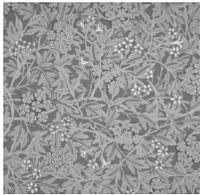
- This applies to the whole Web page, since it is a style for the body.
- Two ways of saying it: an actual font we'd like, and if we can't get that, any sans-serif font.
- Makes it more flexible to different browsers.
- Google "Web safe fonts"

## Specificity

- We can change fonts for specific elements, eg:  
p {  
 font-family: Times, serif;  
}
- Or, get bold, italics:  
font-weight: bold;  
font-style: italic;  
font-size: x-large;

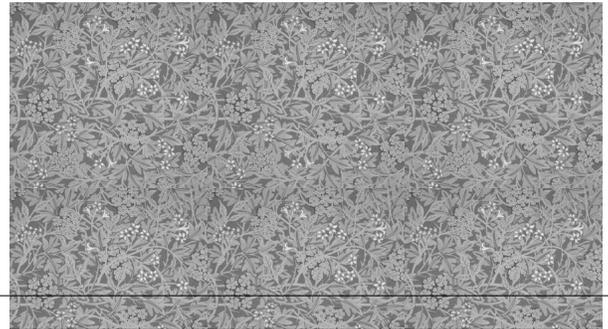
## Backgrounds

- The background comes from an image file
- Many background images tile



## Backgrounds

- The background comes from an image file
- Many background images tile



## Backgrounds

- Background image is a file, in same folder with Web page, .css file.

```
body {  
    background: white url("Jasmine.jpg") repeat top  
left;  
}
```

- Can put background in any element