

lecture #20 — wed nov 13, 2002

- news
 - homework #5 and #6 will be combined
 - check class home page for updates
- today
 - CGI
 - HTML forms
- sources
 - see references link on class web page

a.cgi

```
#!/bin/sh  
echo "Content-type: text/plain"  
echo  
env
```

b.cgi

```
#!/bin/sh
echo "Content-type: text/plain"
echo
echo "QUERY_STRING = [$QUERY_STRING]"
```

c.cgi

```
#!/bin/sh
echo "Content-type: text/html"
echo
echo "<html><body bgcolor=black text=white>"
echo "<h1>QUERY_STRING = [$QUERY_STRING]</h1>"
echo "</body></html>"
```

d.c

```
#include <stdio.h>

int main( int argc, char **argv ) {

    fprintf( stdout, "Content-type: text/plain\n\n" );
    fprintf( stdout, "hello world!\n" );

}
```

compile using: gcc d.c -o d.cgi

e.c

```
#include <stdio.h>
#include <stdlib.h>

int main( int argc, char **argv ) {

    char *query_string = getenv( "QUERY_STRING" );

    fprintf( stdout, "Content-type: text/plain\n\n" );
    fprintf( stdout, "query_string=[%s]\n", query_string );

}
```

compile using: gcc e.c -o e.cgi

f.html

```
<html>
<body bgcolor=#aaaa00>

<form name="loginform" method=get
action="http://satchmo.cs.columbia.edu/cs3157/c.cgi">

<p>enter a message:
<input type="text" name="msg" size="25">

<p>
<input type="submit" value="send">

</form>

</body>
</html>
```

g.html

```
<html>
<body bgcolor=#aaaa00>

<form name="loginform" method=post
action="http://satchmo.cs.columbia.edu/cs3157/h.cgi">

<p>enter a message:
<input type="text" name="msg" size="25">

<p>
<input type="submit" value="send">

</form>

</body>
</html>
```


i.html

```
<html>
<body bgcolor=#cccccc text=#000000>

<form name="loginform" method=post
action="http://satchmo.cs.columbia.edu/cs3157/j.cgi">

<p>
<b>enter the secret password:</b>
<input type="password" name="pw">

<p>
<b>do you like my hat?</b><br>
<input type="radio" name="hat" value="yes"> yes, i like that
party hat<br>
<input type="radio" name="hat" value="no"> no, i do not like
your hat<br>
```

```
<p>  
<b>select a file to delete:</b>  
<input type="file" name="delfile">
```

```
<p>  
<input type="hidden" name="secret" value="open sesame">
```

```
<p>  
<b>which kind of ice cream do you like?</b><br>  
<input type="checkbox" name="icecream" value="hd">haagen dasz<br>  
<input type="checkbox" name="icecream" value="bj">ben & jerry's<br>  
<input type="checkbox" name="icecream" value="ed">edie's<br>
```

```
<p>  
<b>select your grade:</b>  
<select name=mygrade>  
<option>  
<option>A+  
<option>A  
<option>B
```

```
<option>C  
<option>D  
<option>F  
</select>
```

```
<b>select your roommate's grade:</b>  
<select name=yourgrade>  
<option>A+  
<option>A  
<option>B  
<option selected>C  
<option>D  
<option>F  
</select>
```

```
<p>  
<b>select your favorite classes:</b>  
<select name=classes multiple>  
<option>cs1007  
<option>cs3137
```



```
<input type="reset">
```

```
</form>
```

```
</body>
```

```
</html>
```

j.c

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

int main( int argc, char **argv ) {

    char post_string[1024];
    char *p;

    fscanf( stdin, "%s", post_string );

    fprintf( stdout, "Content-type: text/plain\n\n" );
    fprintf( stdout, "post_string=[%s]\n", post_string );

    p = strtok( post_string, "&" );
    while ( p != NULL ) {
        fprintf( stdout, "p=[%s]\n", p );
    }
}
```

```
    p = strtok( NULL, "&" );  
  }  
  
}
```

compile using: `gcc j.c -o j.cgi`