

CSE 190 M, Spring 2007, Final Exam  
ANSWER KEY

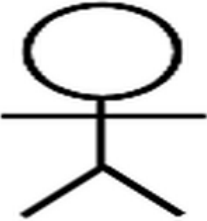
1. HTML / CSS Tracing

Scene

#7

Elizabeth: Captain Barbosa, I am here to negotiate the cessation of hostilities against Port Royal.

Barbossa:



There are a lot of long words in there, Miss.

What is it that you want?

Elizabeth: I want you to leave and never come back.

Barbossa: I'm disinclined to acquiesce to your request. Means "no."

## 2. HTML / CSS Coding

```
<ul><li>
<strong>Inigo:</strong>
Hello. My name is Inigo Montoya. You killed
my father. Prepare to die.</li>

<li class="rugen">
<strong>Count Rugen:</strong>
No!</li>

<li><strong>Inigo:</strong>
Offer me money! Power, too. Promise me that!</li>

<li class="rugen"><strong>Count Rugen:</strong>
All that I have and more! Please!</li>

<li><strong>Inigo:</strong>
Offer me everything I ask for!</li>

<li class="rugen"><strong>Count Rugen:</strong>
Anything you want.</li>

<li><strong>Inigo:</strong>
I want my father back, you son of a ....</li></ul>
```

```
ul {
  float: right;
  margin-right: 50px;
  width: 16em;
}
img {
  float: left;
  margin-bottom: 5pt;
  margin-right: 5pt;
}
li {
  clear: both;
  margin-bottom: 5pt;
}
li.rugen { background-color: #DDDDDD; }
strong {
  font-family: sans-serif;
  text-decoration: underline;
}
```

### 3. PHP

```
<?php
$name = $_POST["name"];
$cc = $_POST["cc"];
$pw = $_POST["pw"];

if ($name == "" || strlen($pw) < 6 ||
    !preg_match("/^\d{4}[-]?\d{4}[-]?\d{4}[-]?\d{4}$/", $cc)) {
    print "<h1>Denied! Invalid data.</h1>";
} else {
    print "<h1>Successful.</h1>";
}
$cc = preg_replace("/-/","",$cc);
$pw = preg_replace("/./","*",$pw);
print "<p>".$name, $pw, $cc</p>";
?>
```

## 4. JavaScript / DOM

```
window.onload = function() {
    var div = document.createElement("div");
    div.id = "rodent";
    div.style.position = "absolute";
    div.style.backgroundImage = "url(rodent.gif)";
    div.style.width = "100px";
    div.style.height = "100px";
    div.onclick = rodentClick;
    document.getElementById("rodentarea").appendChild(div);
    moveRodent();
};

function rodentClick() {
    this.style.backgroundColor = "red";
    setTimeout(moveRodent, 1000);
}

function moveRodent() {
    var rodent = document.getElementById("rodent");
    rodent.style.backgroundColor = "white";
    rodent.style.left = Math.floor(Math.random() * 400) + "px";
    rodent.style.top = Math.floor(Math.random() * 400) + "px";
}
```

## 5. JavaScript / DOM

```
window.onload = function() {
    document.getElementById("del").onclick = divideAll;
};

function divideAll() {
    var divisor = document.getElementById("divisor").value;
    var div = document.getElementById("buttons");
    var buttons = document.querySelectorAll("#buttons button");
    for (var i = 0; i < buttons.length; i++) {
        var number = buttons[i].innerHTML;
        if (number % divisor == 0) {
            div.removeChild(buttons[i]);
        }
    }
}
```

## 6. Ajax / XML

```
window.onload = function() {
    var ajax = new XMLHttpRequest();
    ajax.onload = displayLines;
    ajax.open("GET", "movie.xml", true);
    ajax.send();
};

function displayLines() {
    var movieScene = document.getElementById("moviescene");
    var character = this.responseXML.getElementsByTagName("character")[0];
    var lines = character.getElementsByTagName("line");
    for (var i = 0; i < lines.length; i++) {
        var time = lines[i].getAttribute("time");
        var text = lines[i].firstChild.nodeValue;
        var p = document.createElement("p");
        p.innerHTML = "(" + time + ") " + text;
        movieScene.appendChild(p);
    }
}
```

## 7. SQL

```
SELECT DISTINCT r1.role
FROM roles r1
JOIN movies m1 ON m1.id = r1.movie_id
JOIN roles r2 ON r1.role = r2.role
JOIN movies m2 ON m2.id = r2.movie_id
WHERE r1.movie_id <> r2.movie_id
AND m1.name LIKE 'Pirates of the Caribbean%'
AND m2.name LIKE 'Pirates of the Caribbean%'
ORDER BY r1.role;
```