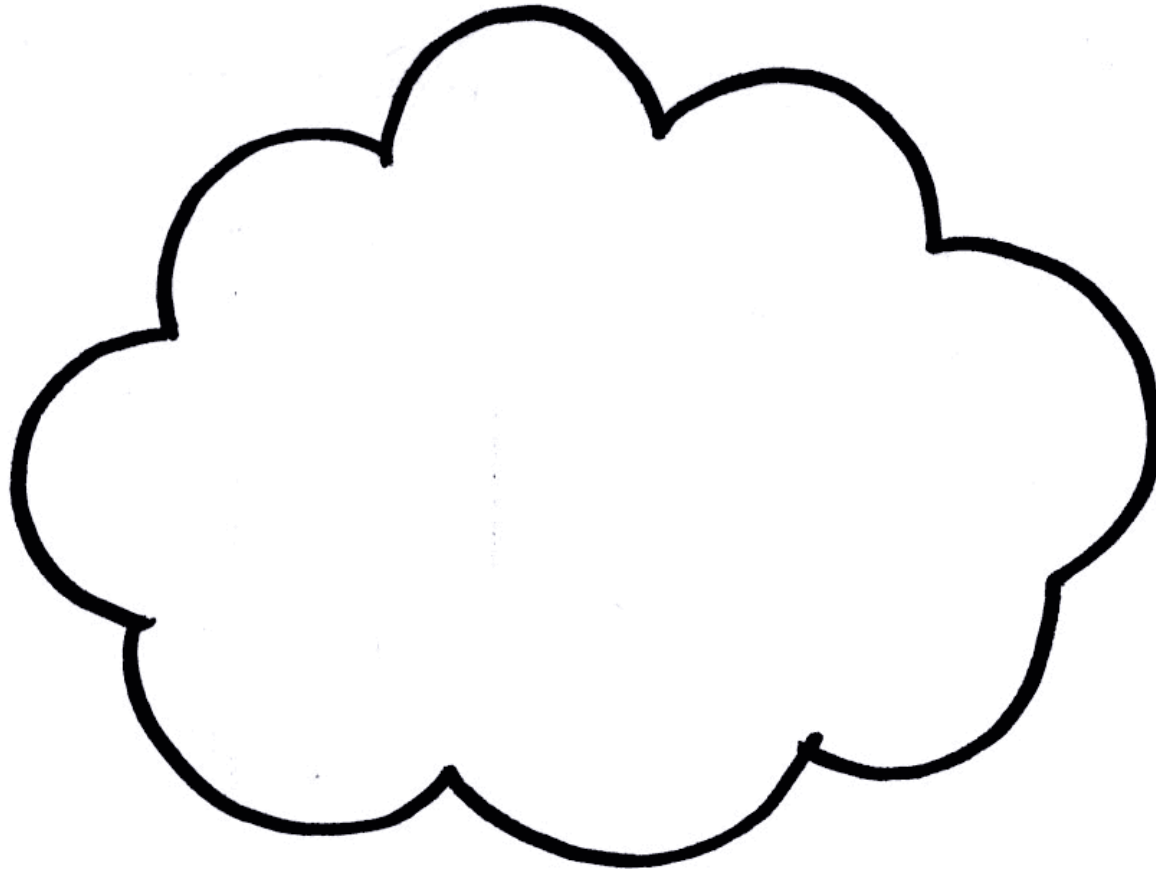


# Simple Bicycle Computer

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Web



# HTML

- Hyper Text Markup Language
- Tagging surrounded content
- Tells the browser how to display things

```
<html>
```

```
  <title>Hello HTML</title>
```

```
  <p>Hello World!</p>
```

```
</html>
```

# CSS

- Cascading Style Sheets
- Applying styles to tagged content

```
p  
{  
color:red;  
text-align:center;  
}
```

# Javascript

- General purpose programming language
- Used for dynamically updating webpages and content

```
var msg = "Hello World";  
document.write(msg);
```

## Choose Framework

onLoad

jQuery 1.7.1

 jQuery UI 1.8.16 jQuery Lint (June 2011) Bootstrap 2.0.2 (js only) jQuery Mobile 1.0.1

## Library tag attributes (?)

 Normalized CSS

## Panels

## Add Resources

## Info

## Testing Ajax requests

## Examples

## Legal stuff and credits

```
<div class="bike">
  <div class="wheel"></div>
  <div class="wheel" style="left:150px;"></div>
</div>
```

HTML

```
var spokes = 8;
for (var i = 0; i < spokes; ++i) {
  $('.wheel').each(function() {
    var spoke = $(document.createElement('div'));
    spoke.addClass('spoke');
    spoke.css('-webkit-transform', 'rotate(' + (i
* (360 / spokes)) + 'deg)');
    $(this).append(spoke);
  });
}

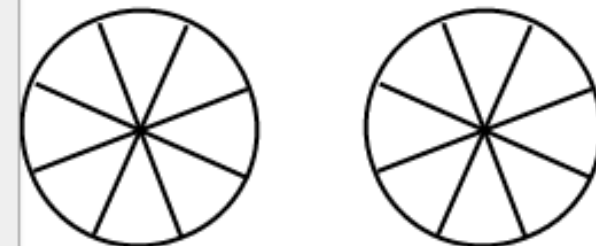
var rmp = 10;
var startAngle = 0;
setInterval(function() {
  $('.wheel').css('-webkit-transform', 'rotate(' +
startAngle + 'deg)');
  startAngle += 360 * rmp / (60 * 20);
}, 50);
```

JavaScript

```
.spoke {
  width: 50px;
  height: 2px;
  background-color: #000;
  position: absolute;
  left: 50px;
  top: 50px;
  -webkit-transform-origin: 0px 1px;
}

.wheel {
  position: absolute;
  width: 100px;
  height: 100px;
  top: 50px;
  border: 2px solid #000;
  border-radius: 100px;
}

.bike {
  position: absolute;
}
```



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta http-equiv="content-type" content="text/html; charset=UTF-8">
5   <title> - jsFiddle demo</title>
6
7   <script type='text/javascript' src='http://code.jquery.com/jquery-1.7.1.js'></script>
8
9   <link rel="stylesheet" type="text/css" href="/css/normalize.css">
10  <link rel="stylesheet" type="text/css" href="/css/result-light.css">
11
12  <style type='text/css'>
13    .spoke {
14      width: 50px;
15      height: 2px;
16      background-color: #000;
17      position: absolute;
18      left: 50px;
19      top: 50px;
20      -webkit-transform-origin: 0px 1px;
21    }
22    .wheel {
23      position: absolute;
24      width: 100px;
25      height: 100px;
26      top: 50px;
27      border: 2px solid #000;
28      border-radius: 100px;
29    }
30    .bike {
31      position: absolute;
32    }
33
34  </style>
35
36
37
38 <script type='text/javascript'>//<![CDATA[
39 $(window).load(function() {
```

# Bicycle Computer

- List of **variables**
- List of **modes**
- List of **conditions, formulas and display variables** for each mode



DEMO

# Future Work

- Ability to choose initial values for variables
- Editable conditions
- Mode descriptions
- Safeguarding against bad input
- Testing

Thank you!