COMP4021 Internet Computing

Using Timers

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Using Timers

- You can use these JavaScript functions for controlling the exact timing of running some code:
 - setTimeout()
 - clearTimeout()

setTimeout()

For example, you can use setTimeout()
 to show an alert message 5 seconds later:

```
setTimeout(;function() {
    alert("Ring! Ring!");
}, 5000);
5000 milliseconds = 5 seconds
```

This functionwill be executed5 seconds later

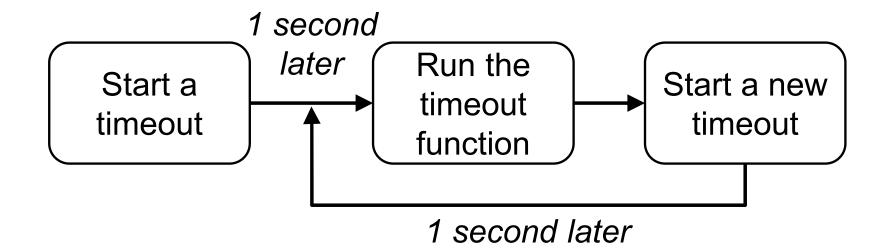
Cancelling a Timeout

- You can easily cancel a timeout using clearTimeout()
- To do that, when you set a timeout, you need to remember the timeout id, like this:

```
clearTimeout(timerid); // now nothing will happen
```

Making a Repeating Timer

- You can easily make a repeating timer using setTimeout()
- You just keep making new timeouts when a previous one fires



Example of a Countdown Timer

Here is an example that shows a countdown of 5 seconds

```
Update the display of time in
                                    an HTML element called 'time'
var timeRemaining = 5;
                                       <h1 id="time">5</h1>
function countDown() {
    timeRemaining = timeRemaining - 1;
    document.getElementById("time")
            .textContent = timeRemaining;
    if (timeRemaining > 0)
        setTimeout(countDown, 1000);
                                   Start the next timeout when
setTimeout(countDown, 1000);
                                   the time is greater than zero
```

Running the Code

