COMP4021 Internet Computing

Using Timers

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Using Timers

- You can use the following JavaScript functions to control the exact timing of running some code
 - setTimeout()
 - clearTimeout()

setTimeout()

- You can run some code after some time using setTimeout()
- For example, you can show an alert message 5 seconds after you run this code:

5000 milliseconds = 5 seconds

Anonymous Functions

- You may notice the function shown in the previous slide does not have a name
- It is called an anonymous function

```
function() {
    alert("Ring! Ring!");
}
```

 This kind of function is commonly used for passing some code as an argument

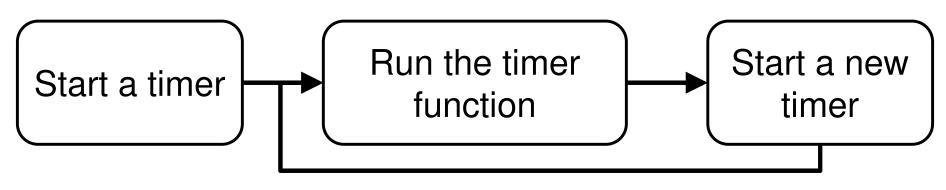
Cancelling a Timer

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

Making a Count Down Timer

- Computer games commonly use a count down timer
- You can do that easily using setTimeout()
- You just keep making new timers when a previous one fires

1 second later



1 second later

Example of a Countdown Timer

 Here is an example countdown timer that shows a countdown of 5 seconds:

```
Update the HTML
let timeRemaining = 5;
                            <h1 id="time">5</h1>
function countDown() {
    timeRemaining = timeRemaining - 1;
    document.getElementById("time")
            .innerHTML = timeRemaining;
    if (timeRemaining > 0)
        setTimeout(countDown, 1000);
                                 Start the next timeout
setTimeout(countDown, 1000);
                                   when the time > 0
```

Running the Code

