# Intro to Events

actions or occurrences that happen in the system you are programming

EVENT is clicked

SIGNAL FIRED

ACTION OCCURS

ACTI

Click Me

Form Submitted, Thanks!

### Types of events

- The user clicking the mouse over a certain element or hovering the cursor over a certain element.
- The user pressing a key on the keyboard.
- The user resizing or closing the browser window.
- A web page finishing loading.
- A form being submitted.
- A video being played, or paused, or finishing play.
- An error occurring.

### Ways of using event handlers

## Event handler properties

```
<button id="new-button">Click
Me Please!
```

## Inline Event Handlers

Don't use these

#### addEventListener()

```
<button id="new-button">Click
    Me Please!
```

```
let newBtnThree =
document.getElementById("new-
button-three");

newBtnThree.addEventListener("c
    lick", function() {
    newBtnThree.innerHTML =
    "Thanks for clicking";
    });
```

### Which should we use

## Event handler properties

<button id="new-button">Click

Me Please!

- + Better cross-platform coverage
- + Easier for beginners
- Less power and options

#### addEventListener()

<button id="new-button">Click

Me Please!

- + Has
   removeEventListener()
  + Can use multiple event
   listeners on one
  - element
- Less cross-platform coverage

### MORNING EXERCISES

using the click listener

### More Event Concepts

#### Event objects

```
<button id="new-button">Click

Me Please!
```

```
let newBtnThree =
document.getElementById("new-
button-three");

newBtnThree.addEventListener("c
   lick", function(event) {
   e.target.innerHTML = "Thanks
        for clicking";
        });
```

### More Event Concepts

.preventDefault()
Preventing default behavior

When you want to prevent the normal from happening.

Username: Ryan
Password: Submit

\*Please put in a password!

Create a link and prevent it from going to a new webpage (the default)

### Types of events

- Resource Events
- Focus Events
- CSS Animation Events
- Form Events
- Keyboard Events
- Mouse Events
- Media Events

In groups of 2-3, research and make a presentation about the different event listeners in the category (i.e. mouse has "click", "mouseover", etc). Bonus if you can live code a very small example, to illustrate how it works:)