Try It! Inputs and Events

A PDF copy of all of this lesson's Try It exercises can be downloaded from the **Resources** tab.

**1. Create a new practice Pen**.

**2. Add a heading a canvas element to the Pen**.

**3. Add two input elements**: a button to change the background color of the canvas “on click” and a color input element that allows the user to change the color of the canvas “on change.” Note that a color input element must have a value attribute that is the hexadecimal value for a color (e.g., #0000FF). You can find the hex values for colors using this resource: <http://www.w3schools.com/colors/colors_picker.asp>

**4. Write a JavaScript function for the event handler of the color input that**:

* **Gets the canvas element**;
* **Gets the color input element**; and
* **Sets the canvas background color to the value of the color input**.

**5. Try changing the *onchange* attribute to *onclick*** and see how the input behaves differently.

**Need help?** See this example on CodePen (<http://codepen.io/duketeam/pen/amvmPK>) and review the **Events and Inputs** video. Also ask for help from your classmates in the forums!

Create a Slider

**1. Fork your color chooser practice pen**, so that you start with a canvas element and a color chooser (you can delete the button).

**2. Add a slider input element by specifying the type “range.”** Refer to the Inputs and Events video for more details on the min, max, value, and oninput attributes.

**3. Write a function doSquare()**for the slider event handler that draws squares on the canvas, such that their side lengths are determined by the value of the slider. Your function should:

* **Get the slider element, then its value**.
* **Get the canvas element, then its context**.
* **Use the *context.fillStyle*and *context.fillRect*methods**. Try making the position of the second square dependent on the first, such as specifying that the x-coordinate be the length plus a number, or the length times a factor. (Note that if you use the ‘+’ operator with variables JavaScript has decided are strings (words or text), you need to use parseInt to convert the string to an integer.)

Need help? See this CodePen example: <http://codepen.io/duketeam/pen/YGyGob>.