



# Simple Validation

# Validating Input

- What?
- How?

## What to Validate

- The type of input
  - You want a number instead of a string...
- The format of the input
  - Is it a valid email address or URL?
  - Does the phone number have spaces?
- The value of the input
  - Should it be required input?
  - Do the email values match?

# How Do You Want to Validate

- Use new HTML5 input types
  - email, number, url
- Use HTML5 attributes
  - required, placeholder, min, max
- Use JavaScript functions
  - Write custom code to validate

## Input Types

- The input types require that the browser validate the format of the input
- When supported, it will halt the submit process for non-valid input
- The first non-valid input is put into focus
- If not supported, the input type is just text

# Input Attributes

- required
  - Halts the submit process if any of the required elements are empty
  - Can cause issues when you are developing your code, so sometimes paired with the form attribute `novalidate`



## pattern

- Works with input type = text and requires the input have a specific form
  - [0-9]{5}
  - [0-9]{13-16}
  - [a-zA-Z]+
- Best if used with placeholder & supporting text
- <http://html5pattern.com/>



## Limiting number

- min, max, and step can place limits on number inputs
- The range attribute also has a max and min, just a different look



## Pattern vs Max/Min

- What if you want a zip code?
- What do you want to check?
  - That the input is five digits
- How do you want to check it?
  - Use input = number + min and max
  - Use input = text + pattern

## Validation with JavaScript

- There isn't always a guarantee that the browser will support the input type or pattern attribute
- It is possible to add extra validation using the Events and custom JavaScript functions



## Review

- Embrace the new input types and attributes provided
- But remember that you will still need to add JavaScript if you want to ensure correctness

# Acknowledgements/Contributions

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