



# Module 4 Day 7

## Data Binding

# Vue Components – JS Properties

- `data()`
  - Function that returns an object that contains the component's "properties"
- `computed`:
  - An object full of functions that return computed values and then are treated as property getters on the component
- `props`:
  - An object with properties for data that is passed in from the "parent" component when created
- `methods`:
  - An object full of functions to be treated as methods on the component

# Data Binding

- Linking a data property of a component to a specific HTML element
- One-way (Simple): Component data is viewed in the UI {{ }}
- Two-way: Component data is viewed and updated from the UI (v-model)
- v-model modifiers (<https://vuejs.org/v2/guide/forms.html#Modifiers>)
  - .lazy – update after focus is lost
  - .number – assign the property as a number instead of string
  - .trim – trim whitespace from before and after a string input



Let's  
Code

# Loops (v-for)

- Arrays
  - v-for="item in items" -- equivalent to C# "foreach(Item item in items)"
  - v-for="(item, index) in items"
  - v-bind:key="uniqueValue"
- Objects
  - v-for="value in object"
  - v-for="(value, key) in object"
- Integer
  - v-for="i in n" – eq. to c# "for (int i = 1; i <= n; i++)"
  - Sets n = 1 to integer in a loop
  - That's right, it starts at 1!



Let's  
Code

# Binding DOM Attributes (v-bind)

<https://vuejs.org/v2/api/#v-bind>

- `v-bind:class = {  
 'class1' : Boolean-expression,  
 'class2' : Boolean-expression  
}`
- `v-bind:style = {  
 'color' : barColor,  
 'width' : barValue + 'px'  
}`
- `v-bind:disabled="Boolean-expression"`

Let's  
Code

# Conditional Display

- v-if: completely removes the element (and its children) from the DOM
  - v-else-if
  - v-else
- v-show: Changes the display: attribute and leaves the element in the DOM

Generally speaking, v-if has higher toggle costs while v-show has higher initial render costs. So prefer v-show if you need to toggle something very often, and prefer v-if if the condition is unlikely to change at runtime. - <https://vuejs.org/v2/guide/conditional.html>