
WEB PRODUCTION

Lecture 2

TODAY'S TOPICS



- Vue Basics
- Participation: Yahtzee
- Exercise: Hearts Vue

ANNOUNCEMENTS

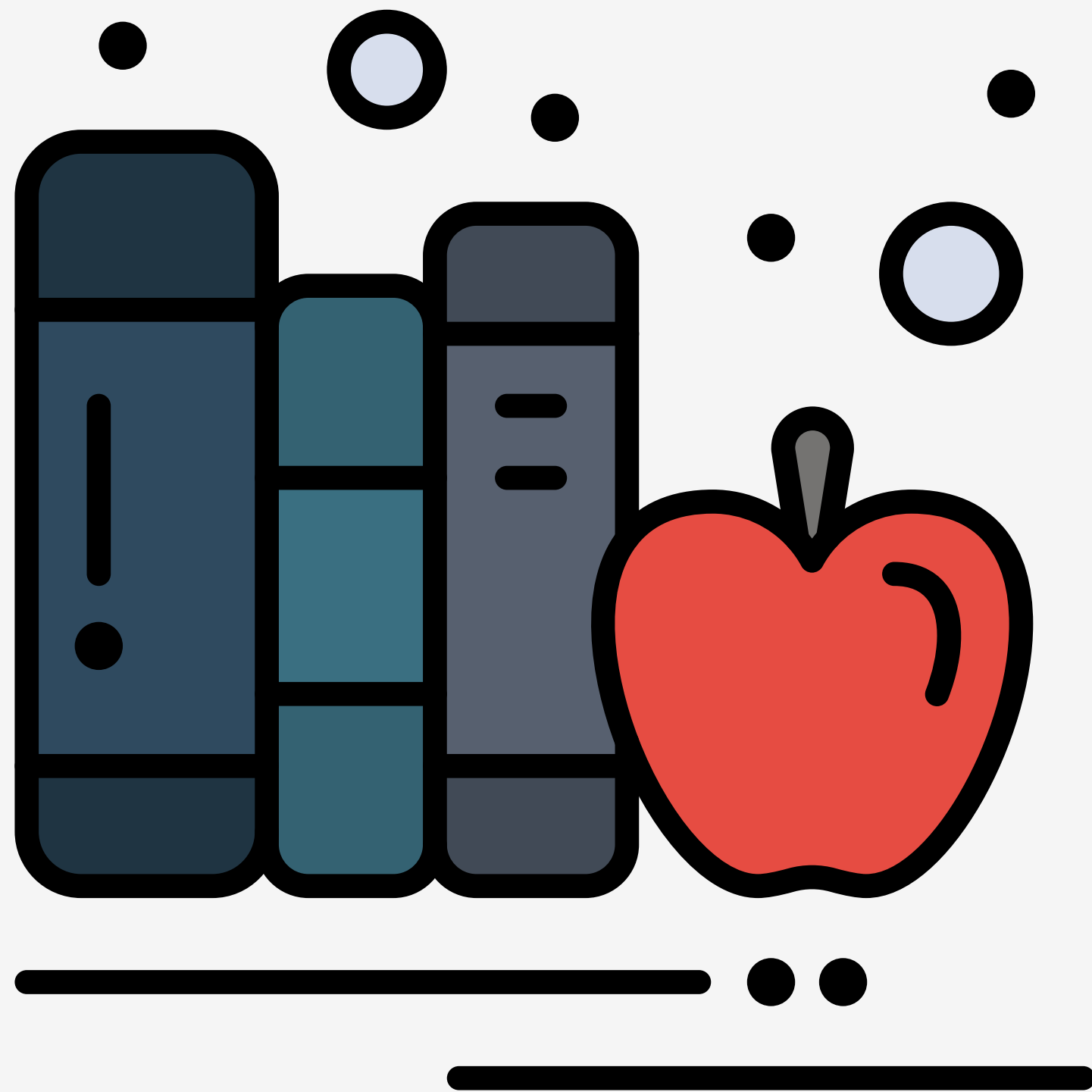


- Sign-in Sheet
- Recording

QUESTIONS

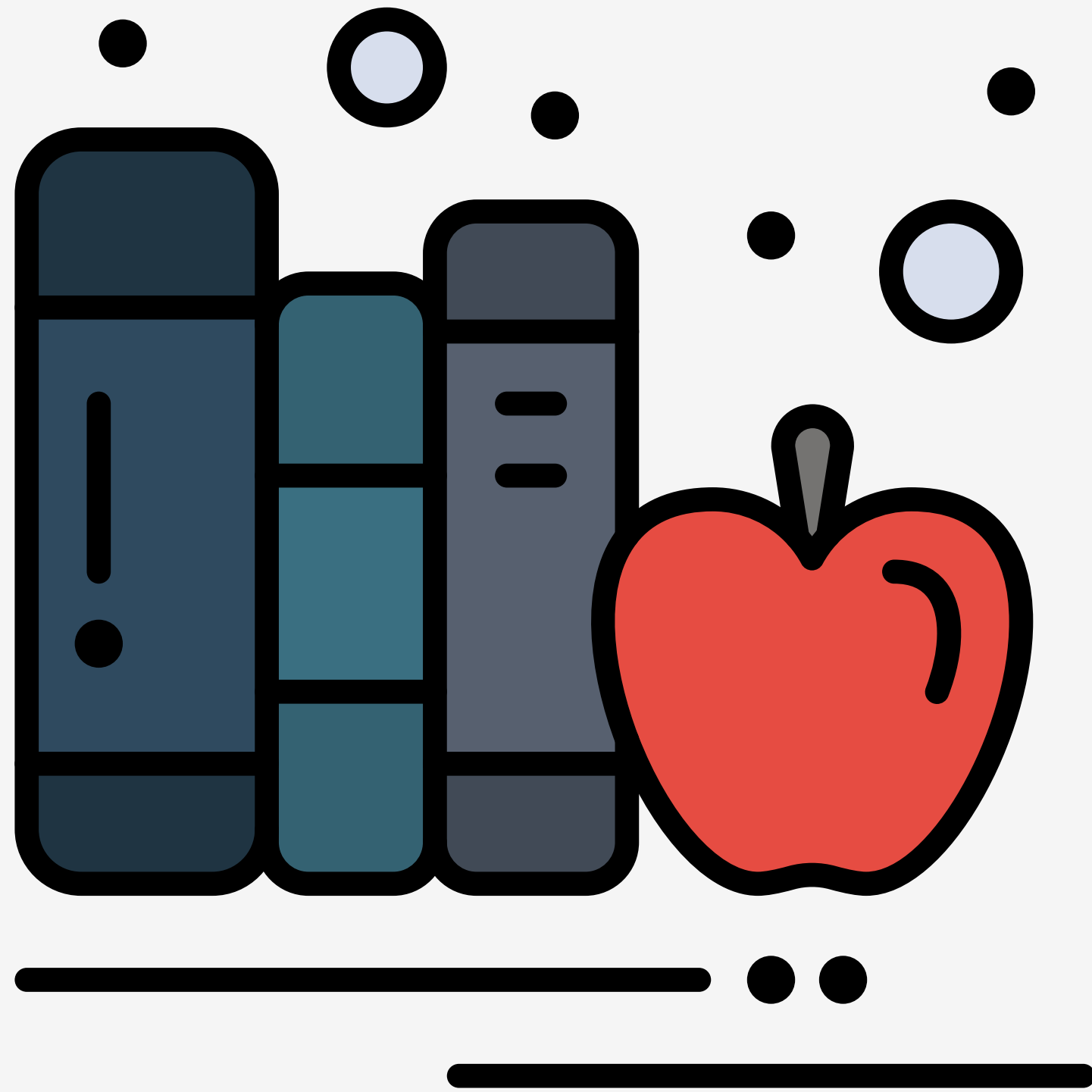
VUE FRAMEWORK

WHY VUE



- Great for user interfaces
- Incrementally adoptable
- Component-based architecture
- Comprehensive ecosystem
- Approachable

INSTALLING VUE



- CDN
 - Development
 - Production
- Vue-CLI

INSTALLING VUE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Vue</title>
</head>
<body>
  <div id="app"></div>
  <script src="https://cdn.jsdelivr.net/npm/
vue/dist/vue.js"></script>
</body>
</html>
```

VUE BASIC



- The Vue Instance
- Template Syntax
- Directives
- Reactive Data

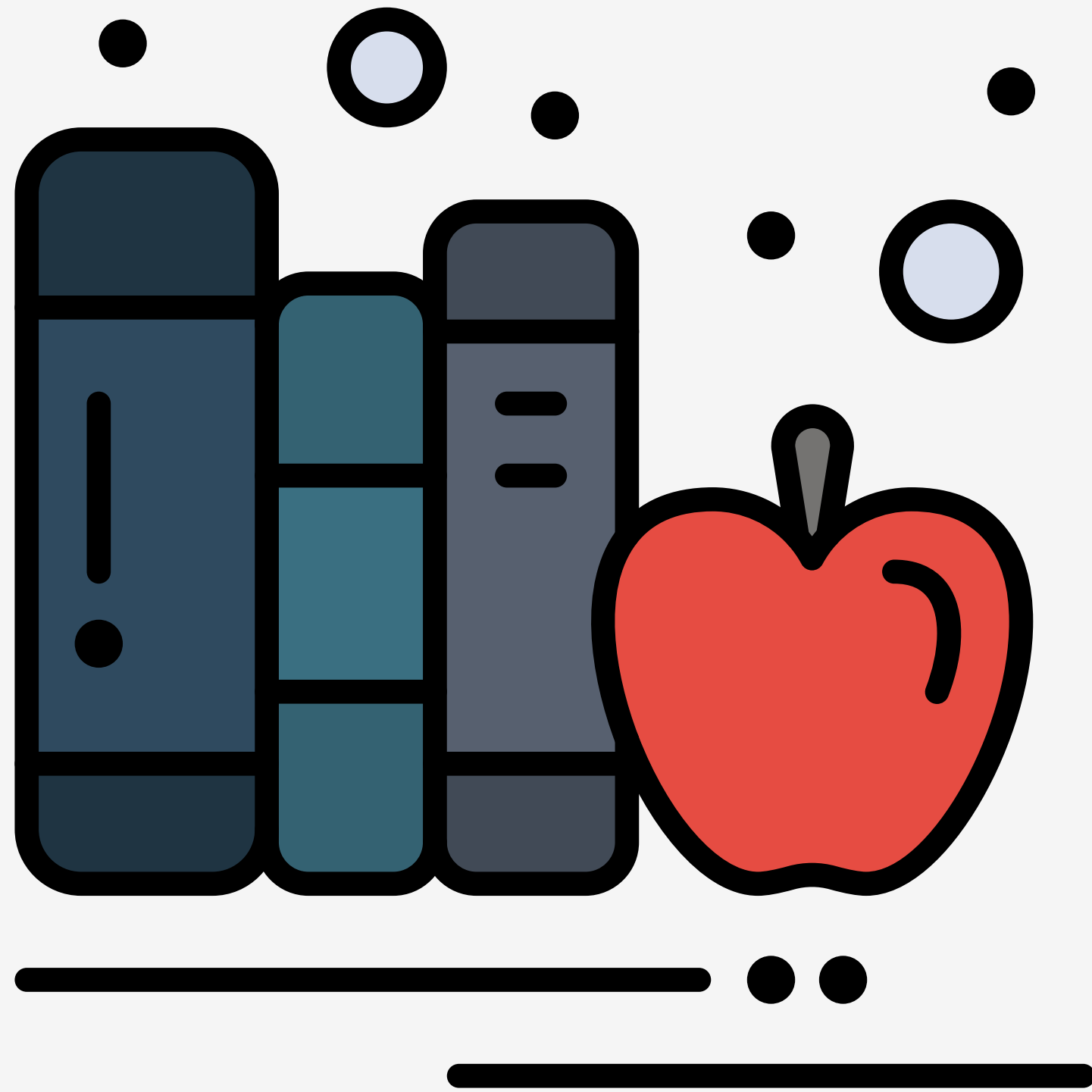
VUE INSTANCE

```
const app = new Vue({  
  el: '#app',  
  data: {  
    message: 'Hello Vue!'  
  }  
})
```

TEMPLATE SYNTAX

```
<div id="app">  
  {{ message }}  
</div>
```

VUE DIRECTIVES



- Custom attributes added to a template to alter rendering or add interaction
- All directives start with **v-**, but many have shorthands
- Common directives include
 - **v-if**
 - **v-for**
 - **v-bind**
 - **v-on**
 - **v-model**

V-IF DIRECTIVE

```
<div id="app">  
  <div v-if="message">  
    {{ message }}  
  </div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    message: 'Hello, Class'  
  }  
})
```

V-FOR DIRECTIVE (ARRAYS)

```
<div id="app">
  <div v-for="message in messages">
    {{ message }}
  </div>
</div>
```

```
const app = new Vue({
  el: '#app',
  data: {
    messages: [
      'Hello, Class',
      'Goodbye, Class'
    ]
  }
})
```

V-FOR DIRECTIVE (OBJECTS)

```
<div id="app">
  <div v-for="(value, key) in message">
    {{ key }}: {{ value }}
  </div>
</div>
```

```
const app = new Vue({
  el: '#app',
  data: {
    message: {
      text: 'Hello, Class',
      date: 'Jan 13, 2020'
    }
  }
})
```

V-BIND DIRECTIVE

```
<div id="app">
  <div v-for="image in images">
    
  </div>
</div>
```

```
const app = new Vue({
  el: '#app',
  data: {
    images: [
      'image-1.png',
      'image-2.png'
    ]
  }
})
```

DOES NOT WORK

V-BIND DIRECTIVE

```
<div id="app">  
  <div v-for="image in images">  
      
  </div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    images: [  
      'image-1.png',  
      'image-2.png'  
    ]  
  }  
})
```

V-BIND DIRECTIVE

```
<div id="app">  
  <div v-for="image in images">  
      
  </div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    images: [  
      'image-1.png',  
      'image-2.png'  
    ]  
  }  
})
```

SHORTHAND

V-BIND DIRECTIVE

```
<div id="app">  
  <a :href="link" :title="title">{{ text }}</a>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    link: 'http://google.ca',  
    title: 'Google',  
    text: 'Google It!'  
  }  
})
```

V-BIND DIRECTIVE (CLASS)

```
<div id="app">  
  <div :class="className"></div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    className: 'red'  
  }  
})
```

V-BIND DIRECTIVE (CLASS)

```
<div id="app">  
  <div :class="[color, size]"></div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    color: 'red',  
    size: 'large'  
  }  
})
```

V-BIND DIRECTIVE (CLASS)

```
<div id="app">  
  <div :class="{red: isRed}"></div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    isRed: true  
  }  
})
```

V-ON DIRECTIVE

```
<div id="app">
  <button v-on:click="knock">Knock</button>
  <div v-if="response">{{ response }}</div>
</div>
```

```
const app = new Vue({
  el: '#app',
  data: {
    response: ''
  },
  methods: {
    knock: function () {
      this.response = "Who's there?"
    }
  }
})
```

V-ON DIRECTIVE

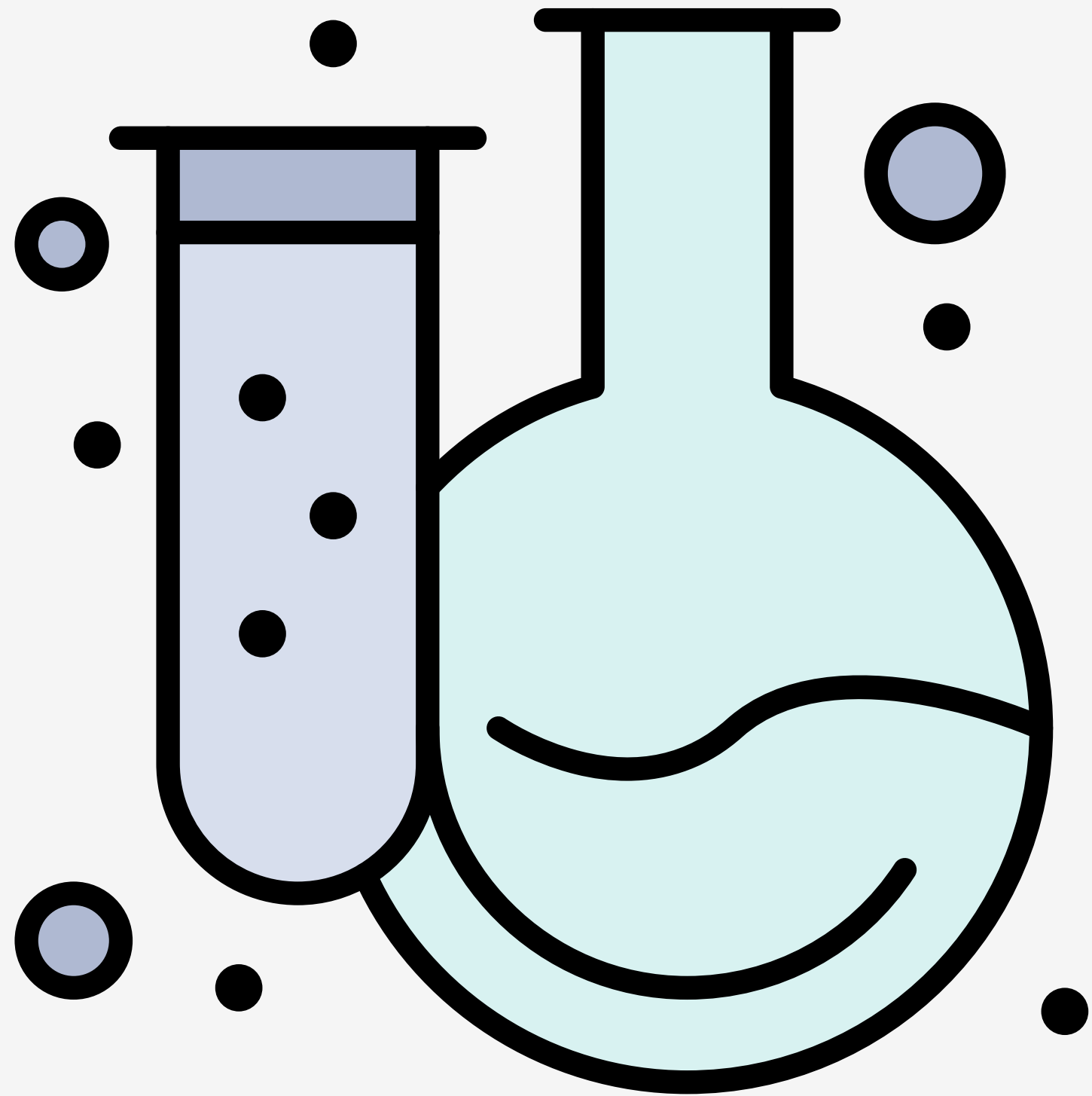
```
<div id="app">  
  <button @click="knock">Knock</button>  
  <div v-if="response">{{ response }}</div>  
</div>
```

```
const app = new Vue({  
  el: '#app',  
  data: {  
    response: ''  
  },  
  methods: {  
    knock: function () {  
      this.response = "Who's there?"  
    }  
  }  
})
```

SHORTHAND

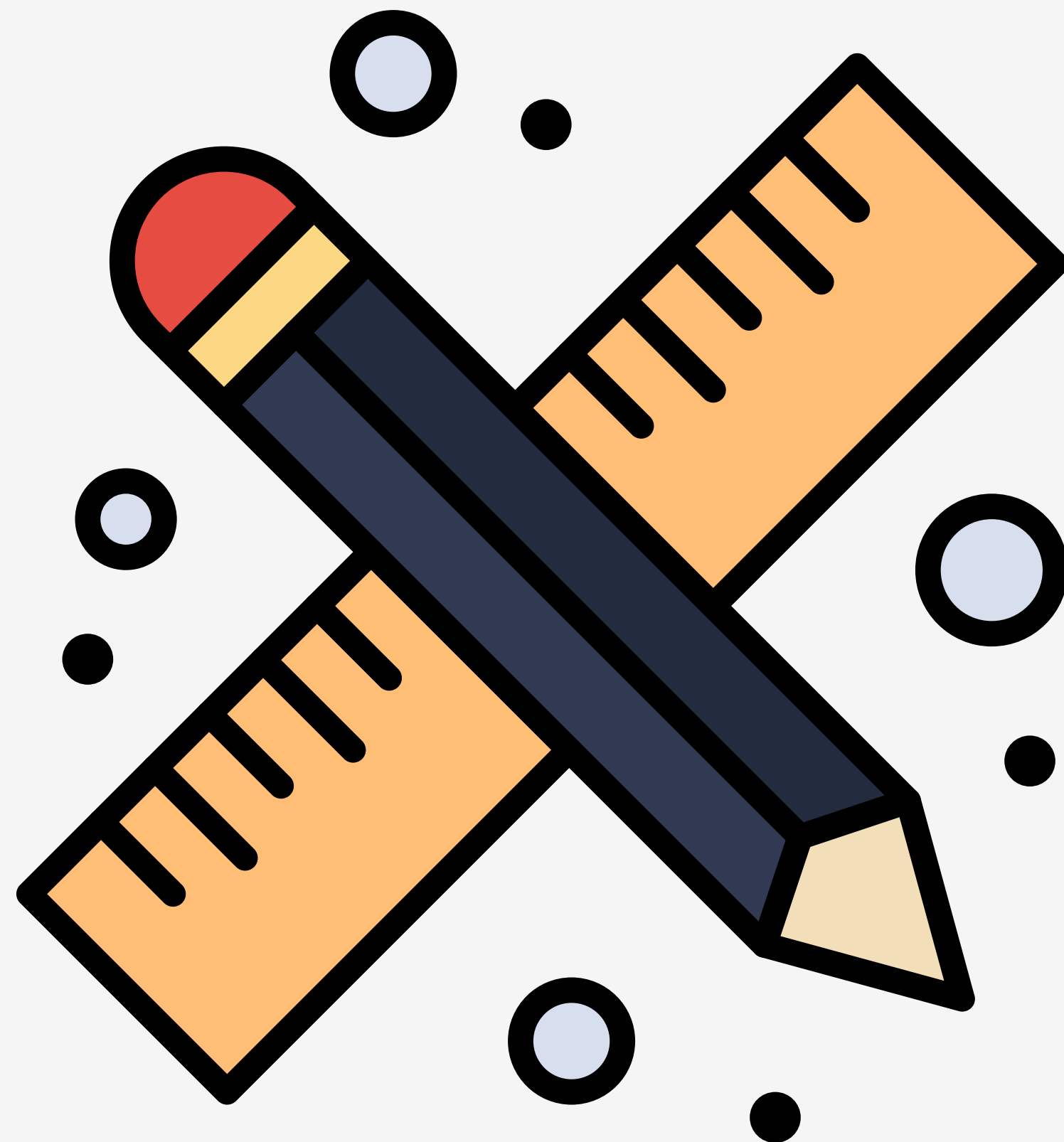
HANDS-ON

YAHTZEE



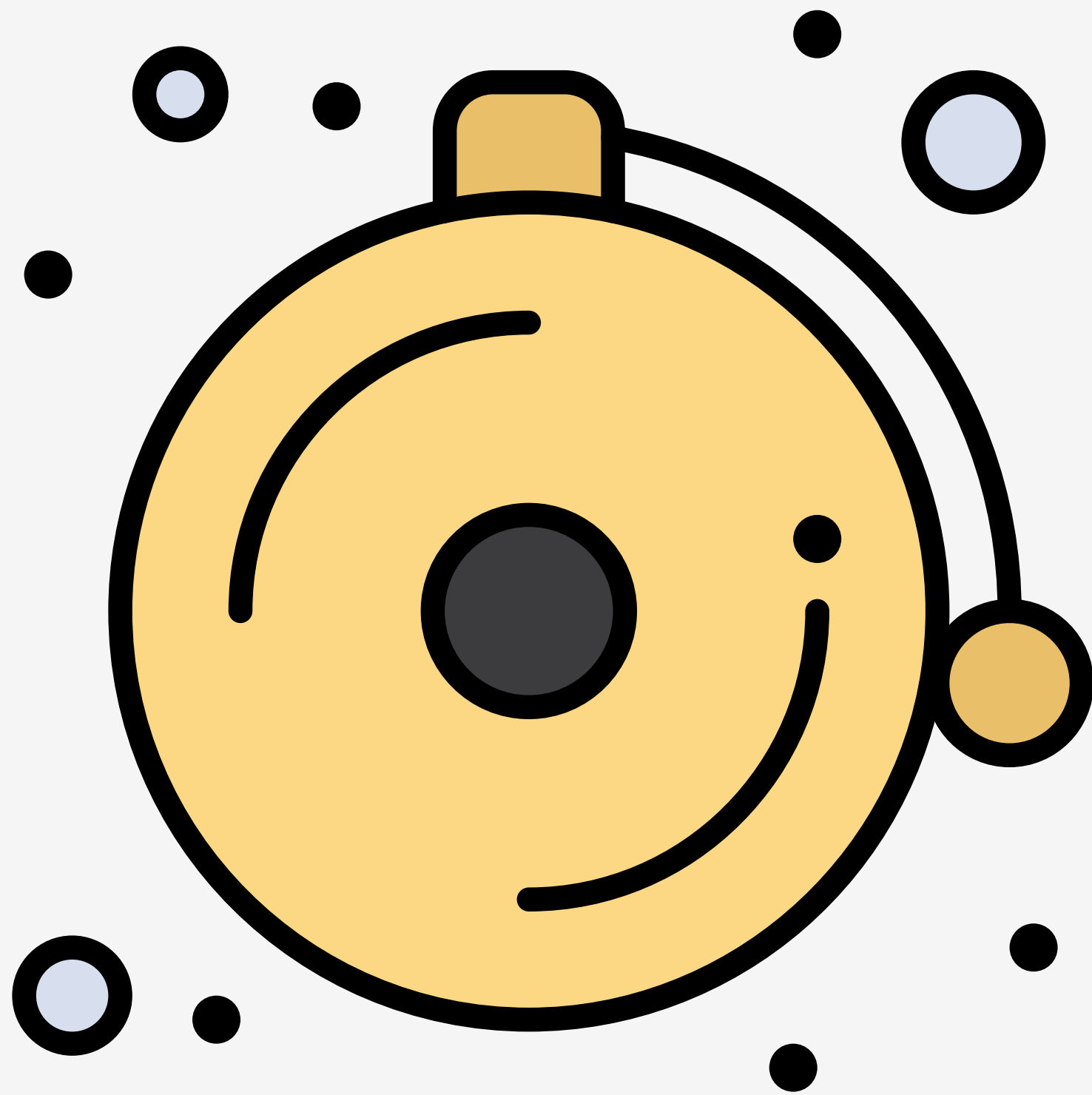
- *FORK THE PEN!*
- Create a Vue instance and add data to the instance
- Dynamically create 5 dice that "roll" when you click on them
- Submit the URL to your pen
- *DUE:* Mon. Jan 13 @ 11:59 PM

HEARTS VUE



- *GITHUB CLASSROOM ASSIGNMENT*
- Create a deck of cards and deal out the cards to 4 players
- Create 4 buttons to display each players hand
- Submit the URL to your repository
- *DUE:* Mon. Jan. 20 @ 11:59 PM

NEXT TIME...



- Methods
- Computed Properties
- More Directives
- **Participation:** Yahtzee
- **Exercise:** Hearts Vue