Storybook Overview

- "A UI development environment and playground for UI components"
- "Showcase components interactively in an isolated development environment"
- Works with many web UI frameworks including React, Vue, Angular, and Svelte
- Benefits
 - can implement and test components in isolation before pages that will use them are implemented
 - designers can experiment with component styling without running the app
 - can demonstrate components to customers for feedback before app is complete
 - can verify operation of components without following a long navigation sequence in the app
 - can use as "design system" documentation
- https://storybook.js.org/

Installing Storybook for Vue

- npx -p @storybook/cli sb init --type vue
- Adds storybook and build-storybook npm scripts in package.json
- Creates .storybook directory containing
 - config.js
 - modify config.js to use plugins like Vuex
 - modify to register custom components (Some components don't need this! Which do?)
 - addons.js
 - imports addons to display data received by Storybook event handlers and create links that navigate between stories
- Creates stories directory containing
 - index.stories.js defines stories
 - it's also possible to colocate story definitions with component implementations under src directory
 - Welcome.js an example component that provides instructions on how to add stories

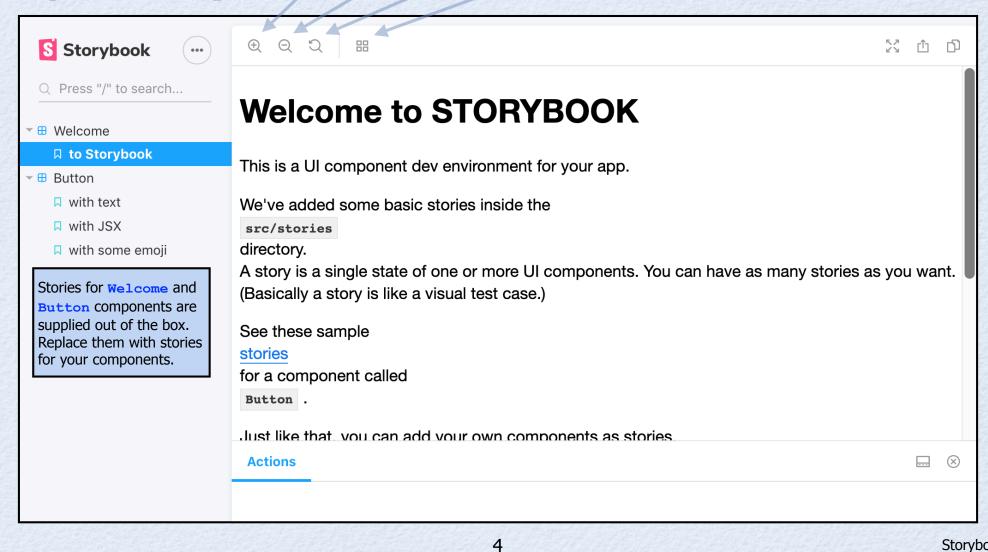
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MyButton.js - another example component

Running Storybook

resets toggles zooms zooms grid out lin zoom

npm run storybook



Adding Stories ...

following slides demonstrate components in todo app

In stories/index.stories.js

```
import {storiesOf} from '@storybook/vue';
import {action} from '@storybook/addon-actions';

import Arrow from '../src/components/Arrow';
import Todo from '../src/components/Todo';
import TodoList from '../src/components/TodoList';
```

action function is for mocking event handling and logging it; see examples in story for Todo component

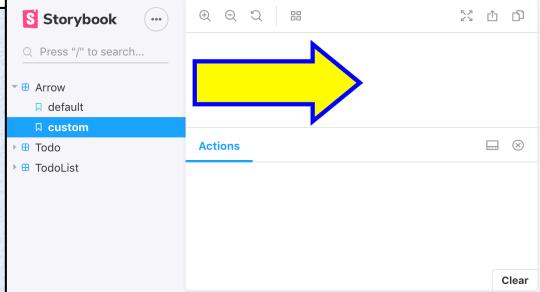
stories for imported components are on next three slides

... Adding Stories ...

Arrow component stories

Passing module is necessary for "hot module replacement". Webpack uses this to add and remove modules at runtime without a full reload. This way everything needed by every component doesn't

```
storiesOf('Arrow', module) 
  .add('default', () => ({
                                 need to be retained in memory the entire time Storybook is running.
    components: {Arrow},
    template: '<arrow :height="100" :width="200" />'
  }))
  .add('custom', () => ({
    components: {Arrow},
    template:
      '<arrow fill="yellow" :height="100" stroke="blue" :strokeWidth="5" :width="200" />'
  }));
```



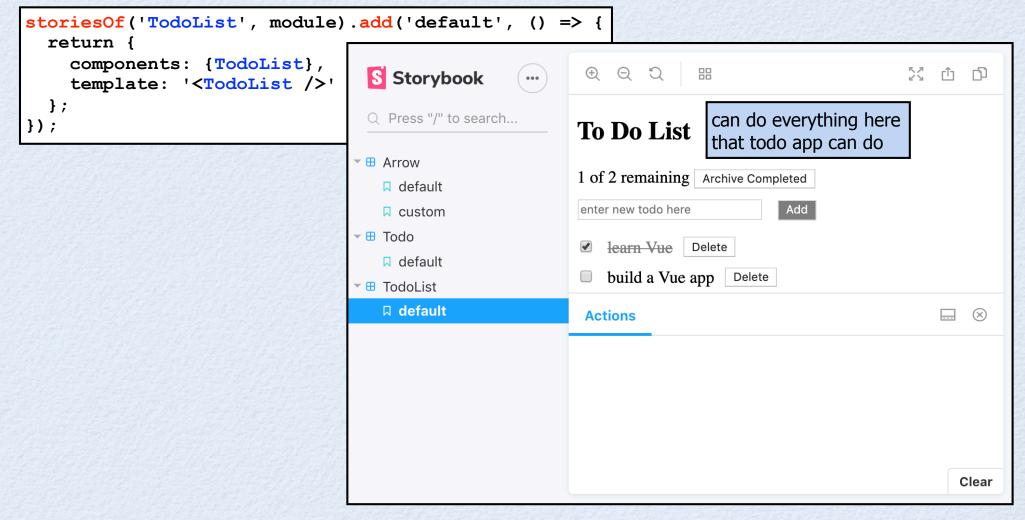
... Adding Stories ...

Todo component story

```
storiesOf('Todo', module).add('default', () => {
  return {
    components: {Todo},
                                                                      ⊕ Q <sup>©</sup>Q
                                                                                                   公 ① ①
                                                  Storybook
    data() {
       return {
                                                                     ✓ Buy milk Delete
                                                  Q Press "/" to search...
         todo: {text: 'Buy milk'}
       };
                                                 },
                                                    □ default
    template: < Todo
                                                    custom
       :todo="this.todo"
                                                                                                      Actions
                                                  ⊕ Todo
       :onDeleteTodo="this.deleteAction"
                                                    □ default
                                                                      ▶ deleted: (1) [MouseEvent]
       :onToggleDone="this.toggleAction"
                                                 ▶ ⊞ TodoList
                                                                      ▶ toggled: (1) [Event]
    />`,
    methods: {
                                                                      can interact with the component
       deleteAction: action('deleted'),
                                                                      and see triggered actions logged
       toggleAction: action('toggled')
                                                                                                        Clear
  };
```

... Adding Stories

TodoList component story



Default CSS

- To provide default styling defined outside components being rendered
 - create stories/storybook.css

```
body {
  font-family: sans-serif;
}
```

import near top of index.stories.js

```
import './storybook.css';
```

Mocking Fetch

- Can create stories for components that make REST calls without actually making the calls
- When using Fetch API, one way is to replace fetch function with a no-op in .storybook/config.js

```
// Replace fetch function with a no-op so
// components that make REST calls don't fail.
window.fetch = () => {};
```

Add-ons

- Add functionality to Storybook
- Documented at https://storybook.js.org/addons/addon-gallery/
- Some only work with certain web frameworks
- Some are maintained by the Storybook team and others are maintained by the community
- Steps to install each differ, so check documentation

More

- There's more to learn about Storybook, but we've covered the basics
- For more read the official docs starting at https://storybook.js.org/docs/basics/introduction/