

The background is a solid teal color with various faint, white line drawings and sketches overlaid. These include architectural elements like a brick wall, a staircase, and a doorway, as well as scientific or technical diagrams like a circular structure with concentric rings, a DNA helix, and a grid pattern. A small crescent moon is visible in the upper right corner.

Nuxt Fundamentals

Reusable components

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Reusable components

Using components multiple times in (possibly) different pages

Short recap - Components



- If you add Vue components to `./pages`, they become **routes** in your app
 - They look like a web 'page' to the outside world
- But often times a page is composed of **multiple components**.
 - As is already the case for `<MainNavigation/>` in our example.
- They should live in the `./components` folder
- Components you place here, are **automatically imported** by Nuxt, so you don't have to write an `import ... from` statement
- The **path decides the component** name!
 - So `./components/layout/myHeader.vue` becomes
 - `<LayoutMyHeader />` if used in your template

What are Components?



Docs > Guide > Directory Structure

components

The components/ directory is where you put all your Vue components.

Nuxt automatically imports any components in this directory (along with components that are registered by any modules you may be using).

Directory Structure

```
- | components/  
--- | AppHeader.vue  
--- | AppFooter.vue
```

▼ app.vue

```
<template>  
  <div>  
    <AppHeader />  
    <NuxtPage />  
    <AppFooter />  
  </div>  
</template>
```

<https://nuxt.com/docs/guide/directory-structure/components>

Creating a PostCard component



- As an example, instead of creating a `` list of Posts, we show **each post as a `<PostCard />` component**
- Again, we use **Tailwind CSS classes** we added in the previous workshop
- For the postcard, remember these issues:
 - Use `defineProps(['post'])` to receive a `post` property
 - Create a template, using and styling `<nuxt-link>` as desired.



<PostCard> component



```
<script setup lang="ts">
const {post} = defineProps(['post'])
</script>

<template>
  <nuxt-link :to="` /posts/${post.id}`"
            class="block max-w-sm p-6 bg-white ...">
    <h5 class="mb-2 text-2xl font-bold ...">
      Post number #{{ post.id }}</h5>
    <p class="font-normal text-gray-700 dark:text-gray-400">
      {{ post.title }}
    </p>
  </nuxt-link>
</template>
```

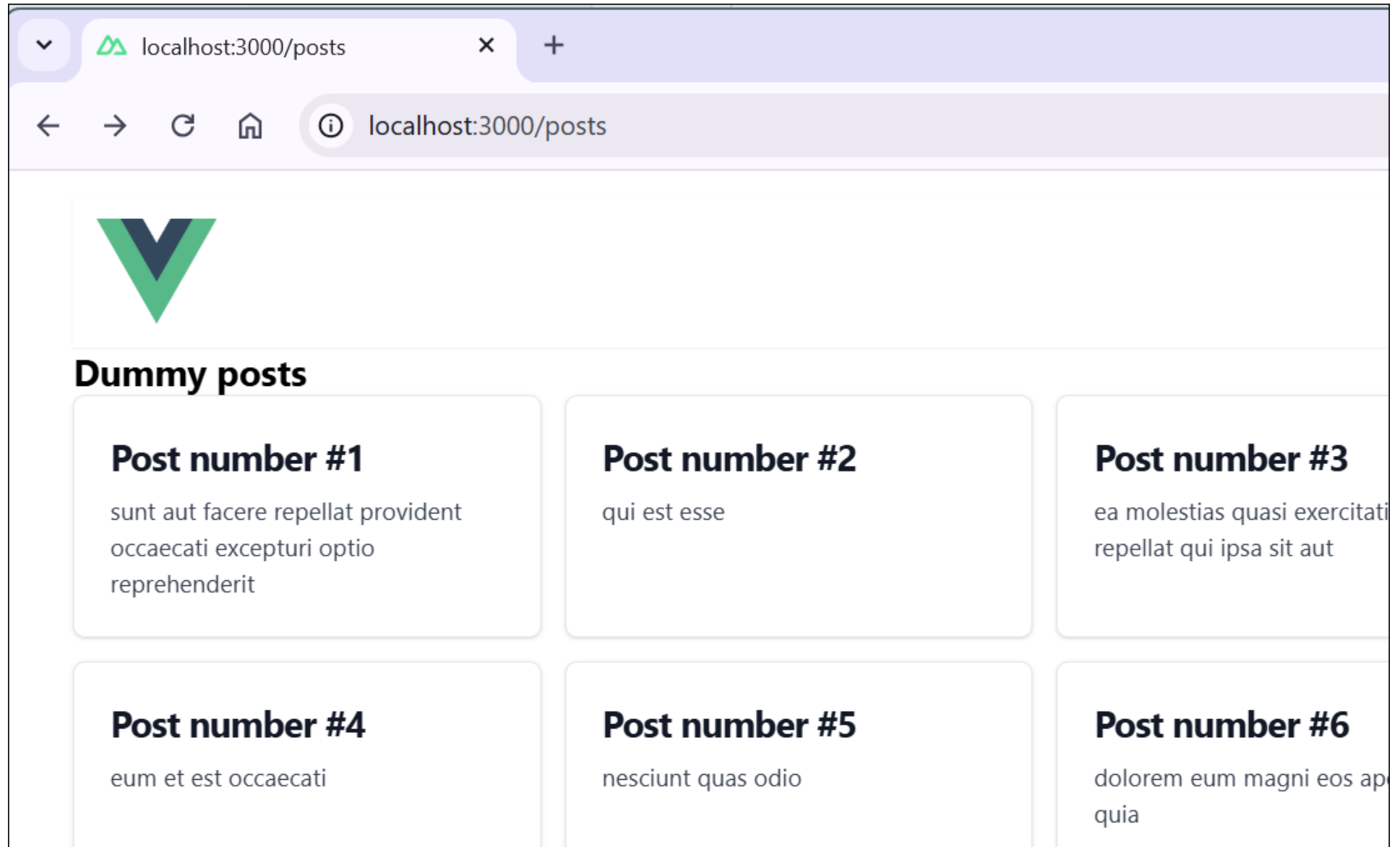
Showing the cards



- We can now **loop over the collection of Posts** and assign each post to a `<PostCard>` component
 - Use the `v-for` directly on `<PostCard>` - no surrounding `<div>` needed
 - Give every post card a `:key`
 - Pass in each post to the `:post` property
 - Use desired Tailwind CSS classes

```
<!-- Posts list -->
<div v-else class="flex flex-wrap gap-4">
  <PostCard
    v-for="post in posts"
    :key="post.id"
    :post="post"
    class="w-full sm:w-1/2 md:w-1/3 lg:w-1/4 p-2"
  />
</div>
```

Browser like:





`<PostDetail />` component

- Showing **individual Posts** in a detail page
- **Repeat** process
 - Create `./components/PostDetail.vue`
 - Create desired template (see next slide)
 - Pass in detail `prop(s)`
 - Replace template in `[id].vue` with `<PostDetail>` and forward props:

```
<template>  
  <PostDetail v-if="!isLoading && post" :post="post"/>  
</template>
```

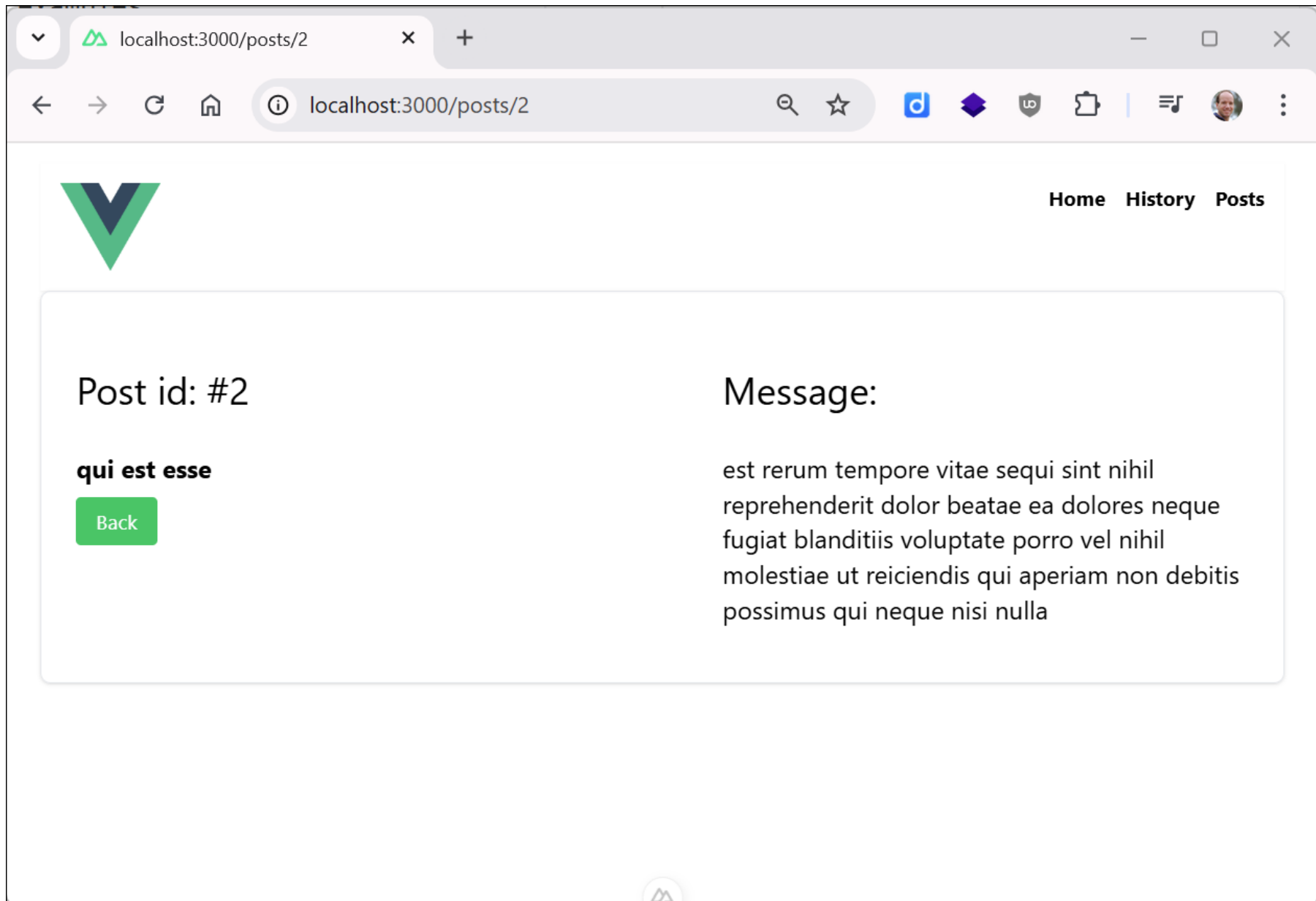
<PostDetail> Component



```
<script setup lang="ts">
  const {post} = defineProps(['post'])
</script>

<template>
  <div class="grid grid-cols-2 gap-10 border ...">
    <div class="p-7">
      <h3 class="text-3xl my-8">Post id: #{{ post.id }}</h3>
      <p class="text-xl my-4"><strong>{{ post.title }}</strong></p>
      <nuxt-link to="/posts" class="btn btn-green">Back</nuxt-link>
    </div>
    <div class="p-7">
      <h3 class="text-3xl my-8">Message:</h3>
      <p class="text-xl my-4">{{ post.body }}</p>
    </div>
  </div>
</template>
```

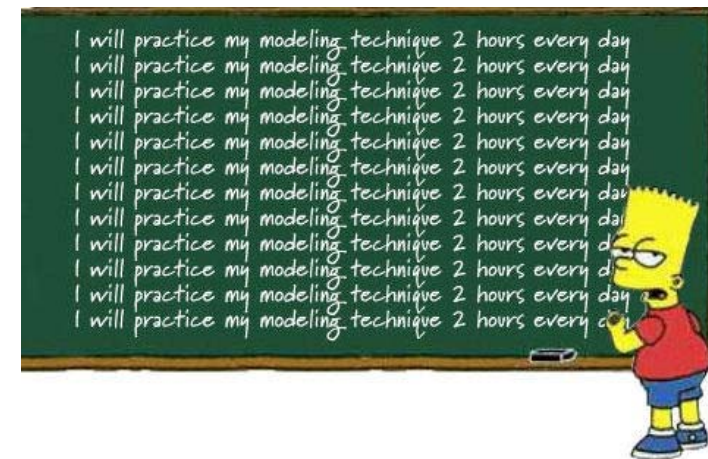
Result



Workshop



- Create one or more components in your app
- Transfer template and possibly script from Page → Component and update.
- (Re)use component in your page.
- Example: `../examples/150-reusable-components`



Checkpoint



- You know what **reusable components** are used for and how they are created
- You know the importance of the `./components` folder
- You are aware that Vue components in this folder are **imported automatically**
- You are able to **create applications** that use reusable components