



Auto-imports

Composables and Helper Functions

Nuxt auto-imports helper functions, composables and Vue APIs to use across your application without explicitly importing them. Based on the directory structure, every Nuxt application can also use auto-imports for its own components, composables and plugins. Components, composables or plugins can use these functions.

Contrary to a classic global declaration, Nuxt preserves typings and IDEs completions and hints, and only includes what is actually used in your production code.

In the documentation, every function that is not explicitly imported is auto-imported by Nuxt and can be used as-is in your code. You can find a reference for auto-imported [composables](#) and [utilities](#) in the API section.

In the [server directory](#), we auto import exported functions and variables from `server/utils/`.

You can also auto-import functions exported from custom folders or third-party packages by configuring the `imports` section of your `nuxt.config` file.

Built-in Auto-imports

Nuxt Auto-imports

Nuxt auto-imports functions and composables to perform data fetching, get access to the app context and runtime config, manage state or define components and plugins.

```
<script setup lang="ts">
/* useAsyncData() and $fetch() are auto-imported */
const { data, refresh, pending } = await useAsyncData('/api/hello', () => $fetch('/api/hello'))
</script>
```

Vue Auto-imports

Vue 3 exposes Reactivity APIs like `ref` or `computed`, as well as lifecycle hooks and helpers that are auto-imported by Nuxt.

```
<script setup lang="ts">
/* ref() and computed() are auto-imported */
const count = ref(1)
const double = computed(() => count.value * 2)
</script>
```

Using Vue and Nuxt composables

When you are using the built-in Composition API composables provided by Vue and Nuxt, be aware that many of them rely on being called in the right *context*.

During a component lifecycle, Vue tracks the temporary instance of the current component (and similarly, Nuxt tracks a temporary instance of `nuxtApp`) via a global variable, and then unsets it in same tick. This is essential when server rendering, both to avoid cross-request state pollution (leaking a shared reference between two users) and to avoid leakage between different components.

That means that (with very few exceptions) you cannot use them outside a Nuxt plugin, Nuxt route middleware or Vue setup function. On top of that, you must use them synchronously – that is, you cannot use `await` before calling a composable, except within `<script setup>` blocks, within the setup function of a component declared with `defineNuxtComponent`, in `defineNuxtPlugin` or in

`defineNuxtRouteMiddleware`, where we perform a transform to keep the synchronous context even after the `await`.

If you get an error message like `Nuxt instance is unavailable` then it probably means you are calling a Nuxt composable in the wrong place in the Vue or Nuxt lifecycle.

See the full explanation in this [comment](#).

🚧 Documentation for this section is not yet complete. You can contribute to the documentation.

Example

Example: Breaking code:

```
// trying to access runtime config outside a composable
const config = useRuntimeConfig()

export const useMyComposable = () => {
  // accessing runtime config here
}
```

composables/example.ts

Example: Fixing the error:

```
export const useMyComposable = () => {
  // Because your composable is called in the right place in the lifecycle,
  // useRuntimeConfig will also work
  const config = useRuntimeConfig()

  // ...
}
```

composables/example.ts

Directory-based Auto-imports

Nuxt directly auto-imports files created in defined directories:

- components/ for [Vue components](#).
- composables/ for [Vue composables](#).
- utils/ for helper functions and other utilities.

Explicit Imports

Nuxt exposes every auto-import with the `#imports` alias that can be used to make the import explicit if needed:

```
<script setup lang="ts">
import { ref, computed } from '#imports'

const count = ref(1)
const double = computed(() => count.value * 2)
</script>
```

Disabling Auto-imports

If you want to disable auto-importing composables and utilities, you can set `imports.autoImport` to `false` in the `nuxt.config` file.

```
export default defineNuxtConfig({
  imports: {
    autoImport: false
  }
})
```

nuxt.config.ts

This will disable auto-imports completely but it's still possible to use explicit imports from `#imports`.

Auto-imported Components

Nuxt also automatically imports components from your `~/components` directory, although this is configured separately from auto-importing composables and utility functions.

👉 [Read more in Docs > Guide > Directory Structure > Components.](#)

To disable auto-importing components from your own `~/components` directory, you can set `components.dirs` to an empty array (though note that this will not affect components added by modules).

```
export default defineNuxtConfig({
  components: {
    dirs: []
  }
})
```

nuxt.config.ts

```
}}
```

Auto-import from third-party packages

Nuxt also allows auto-importing from third-party packages.

If you are using the Nuxt module for that package, it is likely that the module has already configured auto-imports for that package.

For example, you could enable the auto-import of the `useI18n` composible from the `vue-i18n` package like this:

```
export default defineNuxtConfig({                                nuxt.config.ts
  imports: {
    presets: [
      {
        from: 'vue-i18n',
        imports: ['useI18n']
      }
    ]
  }
})
```

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