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useFetch

This composable provides a convenient wrapper around useAsyncData and \$fetch. It automatically generates a key based on URL and fetch options, provides type hints for request url based on server routes, and infers API response type.

useFetch is a composable meant to be called directly in a setup function, plugin, or route middleware. It returns reactive composables and handles adding responses to the Nuxt payload so they can be passed from server to client without re-fetching the data on client side when the page hydrates.

Type

```
Signature
function useFetch<DataT, ErrorT>(
 url: string | Request | Ref<string | Request> | () => string | Request,
 options?: UseFetchOptions<DataT>
): Promise<AsyncData<DataT, ErrorT>>
type UseFetchOptions<DataT> = {
 key?: string
 method?: string
 query?: SearchParams
 params?: SearchParams
 body?: RequestInit['body'] | Record<string, any>
 headers?: Record<string, string> | [key: string, value: string][] | Headers
 baseURL?: string
  server?: boolean
 lazy?: boolean
  immediate?: boolean
  default?: () => DataT
```

```
transform?: (input: DataT) => DataT
 pick?: string[]
 watch?: WatchSource[] | false
}
type AsyncData<DataT, ErrorT> = {
  data: Ref<DataT | null>
 pending: Ref<boolean>
 refresh: (opts?: AsyncDataExecuteOptions) => Promise<void>
 execute: (opts?: AsyncDataExecuteOptions) => Promise<void>
 error: Ref<ErrorT | null>
 status: Ref<AsyncDataRequestStatus>
}
interface AsyncDataExecuteOptions {
  dedupe?: boolean
}
type AsyncDataRequestStatus = 'idle' | 'pending' | 'success' | 'error'
```

Params

- URL: The URL to fetch.
- Options (extends unjs/ofetch options & AsyncDataOptions):
 - method : Request method.
 - query: Adds query search params to URL using ufo
 - params : Alias for query
 - body: Request body automatically stringified (if an object is passed).
 - headers: Request headers.
 - baseURL: Base URL for the request.

All fetch options can be given a **computed** or **ref** value. These will be watched and new requests made automatically with any new values if they are updated.

Options (from useAsyncData):

- key: a unique key to ensure that data fetching can be properly de-duplicated across requests, if not
 provided, it will be generated based on the static code location where useAsyncData is used.
- server: whether to fetch the data on the server (defaults to true)
- lazy: whether to resolve the async function after loading the route, instead of blocking client-side navigation (defaults to false)
- immediate: when set to false, will prevent the request from firing immediately. (defaults to true)
- default: a factory function to set the default value of the data, before the async function resolves
 useful with the lazy: true or immediate: false option
- transform: a function that can be used to alter handler function result after resolving
- pick : only pick specified keys in this array from the handler function result
- watch: watch an array of reactive sources and auto-refresh the fetch result when they change.
 Fetch options and URL are watched by default. You can completely ignore reactive sources by using watch: false. Together with immediate: false, this allows for a fully-manual useFetch.

If you provide a function or ref as the <code>url</code> parameter, or if you provide functions as arguments to the <code>options</code> parameter, then the <code>[useFetch]</code> call will not match other <code>[useFetch]</code> calls elsewhere in your codebase, even if the options seem to be identical. If you wish to force a match, you may provide your own key in <code>options</code>.

Return Values

- data: the result of the asynchronous function that is passed in.
- pending: a boolean indicating whether the data is still being fetched.
- refresh/execute: a function that can be used to refresh the data returned by the handler function.
- error: an error object if the data fetching failed.
- status: a string indicating the status of the data request ("idle" , "pending" , "success" , "error").

By default, Nuxt waits until a refresh is finished before it can be executed again.

If you have not fetched data on the server (for example, with server: false), then the data will not be fetched until hydration completes. This means even if you await useFetch on client-side, data will remain null within <script setup>.

Example

```
const route = useRoute()

const { data, pending, error, refresh } = await useFetch(`https://api.nuxtjs.dev/mountains/${route
   pick: ['title']
})
```

Adding Query Search Params:

Using the query option, you can add search parameters to your query. This option is extended from unjs/ofetch and is using unjs/ufo to create the URL. Objects are automatically stringified.

```
const param1 = ref('value1')
const { data, pending, error, refresh } = await useFetch('https://api.nuxtjs.dev/mountains', {
  query: { param1, param2: 'value2' }
})
```

Results in https://api.nuxtjs.dev/mountains?param1=value1¶m2=value2

Using interceptors:

```
const { data, pending, error, refresh } = await useFetch('/api/auth/login', {
 onRequest({ request, options }) {
   // Set the request headers
   options.headers = options.headers | {}
   options.headers.authorization = '...'
 },
 onRequestError({ request, options, error }) {
   // Handle the request errors
 },
 onResponse({ request, response, options }) {
   // Process the response data
   localStorage.setItem('token', response._data.token)
 },
 onResponseError({ request, response, options }) {
   // Handle the response errors
 }
})
```

useFetch is a reserved function name transformed by the compiler, so you should not name your own function useFetch .						
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Fead more in Docs > Getting Started > Data Fetching.						
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