Shallow Routing

▶ Examples

Shallow routing allows you to change the URL without running data fetching methods again, that includes getServerSideProps, getStaticProps, and getInitialProps.

You'll receive the updated pathname and the query via the <u>router</u> <u>object</u> (added by <u>useRouter</u> or <u>withRouter</u>), without losing state.

To enable shallow routing, set the shallow option to true. Consider the following example:

```
import { useEffect } from 'react'
import { useRouter } from 'next/router'

// Current URL is '/'
function Page() {
  const router = useRouter()

  useEffect(() => {
    // Always do navigations after the first render
    router.push('/?counter=10', undefined, { shallow: true })
  }, [])

  useEffect(() => {
    // The counter changed!
  }, [router.query.counter])
}

export default Page
```

The URL will get updated to /?counter=10 . and the page won't get replaced, only the state of the route is changed.

You can also watch for URL changes via componentDidUpdate as shown below:

```
componentDidUpdate(prevProps) {
  const { pathname, query } = this.props.router
  // verify props have changed to avoid an infinite loop
  if (query.counter !== prevProps.router.query.counter) {
     // fetch data based on the new query
  }
}
```

Caveats

Shallow routing **only** works for URL changes in the current page. For example, let's assume we have another page called pages/about.js, and you run this:

```
router.push('/?counter=10', '/about?counter=10', { shallow: true })
```

Since that's a new page, it'll unload the current page, load the new one and wait for data fetching even though we
asked to do shallow routing.