

## gatsby-cypress

This package provides additional Cypress commands for testing Gatsby websites.

**NOTE:** This package is *not* required to use Gatsby and Cypress together. It only exists to add extra commands for convenience.

To use these commands, first install the necessary packages:

```
npm install cypress gatsby-cypress start-server-and-test --save-dev
```

### Add custom Gatsby testing commands

Next, add a new file located at `cypress/support/index.js` and add the Gatsby-specific Cypress commands:

```
import "gatsby-cypress/commands"
```

Once imported, the following additional commands are available:

- `cy.waitForRouteChange()`: Waits for Gatsby to finish the route change, in order to ensure event handlers are properly setup. Example:

```
// after navigating to another page via a link  
cy.waitForRouteChange().get(`#element-with-event-handler`).click()
```

- **[no longer recommended]** `cy.getTestElement(selector)`: Selects elements where the `data-testid` attribute matches the value of `selector`. Example:

```
<button data-testid="btn-to-test">click me</button>  
  
cy.getTestElement("btn-to-test").click()
```

**NOTE:** It's recommended not to use test IDs. Instead, consider using `cypress-testing-library` and relying on `findByText` instead.

### Running Cypress tests in Gatsby

Add a new script in `package.json` to run the Cypress tests. A common name for this is `cy:open`.

You also need to expose a `CYPRESS_SUPPORT` environment variable to enable Gatsby test utilities. Place it in your test script in `package.json`, for example:

```
"scripts": {  
  ... other scripts ...  
+   "cy:open": "cypress open",  
+   "test:dev": "CYPRESS_SUPPORT=y start-server-and-test develop http://localhost:8000 cy:open",  
+   "test": "CYPRESS_SUPPORT=y npm run build && start-server-and-test serve http://localhost:3000 cy:open",  
}
```

**NOTE:** `test:dev` runs the site in development mode, which allows you to quickly fix and retest any issues. `test` is better suited for build systems like Circle CI, Travis CI, etc.

## Writing Cypress tests for Gatsby pages

Add tests by creating a spec file. We recommend starting with a `cypress/integrations/index.spec.js` to test the home page:

```
context("Homepage", () => {
  beforeEach(() => {
    cy.visit(`http://localhost:8000`)
    cy.waitForRouteChange()
  })

  it("has focusable buttons", () => {
    cy.findByText("click me").focus()
    cy.focused().should("have.text", "click me")
  })
})
```