

# Create fixtures with random data in Cypress



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It is not possible to use faker on a .json file to generate random data. But, it's possible to create a .json file dynamically, using the cy.writeFile functionality, and with the help of the faker library, make all data in this file dynamic.

Let's look at an example, creating a fixture for use in a test that tests the frontend.

The application under test is developed by me and published on Github [here](#).  
The complete Test project (under development) in Cypress on Github is [here](#).

The test files are as follows.

```
// cypress/integration/registration.spec.js

describe('Registration Test', () => {
  let regData;
  before(() => {
    // Generating the fixture data
    cy.generateUserRegistrationFixture(9, '@');
    // Runs once before all tests in the block
    // Calling fixture file and resolving the promise
    cy.fixture('user_registration').then(function(data)
    {
      // To make data accessible all over the current JS file
      regData = data
    })
  })

  beforeEach('Navigate to the Registration screen', () => {
```

```

    cy.visit('/register');
  });

  it('registers the user successfully', () => {
    cy.get('#username').type(regData.username);
    cy.get('#email').type(regData.useremail);
    cy.get('#password').type(regData.password);
    cy.get('#confirm').type(regData.password);
    cy.get('#register').click();

    cy.get('#alert_success')
      .invoke('text')
      .should('contain', 'Congrats! Your registration has been
successful.');
```

Note that in the before hook, there is a custom command called `generateUserRegistrationFixture()`. We'll see what this command does below.

```

// cypress/fixtures/user_registration.js

// Generates the fixture data and writes to the file.
Cypress.Commands.add(
  'generateUserRegistrationFixture', (passwordLength, specialChar) => {
    const { faker } = require('@faker-js/faker');

    let pwdLeftPart = Math.floor(passwordLength / 2);
    let pwdRightPart = Math.abs(passwordLength / 2);

    cy.writeFile('cypress/fixtures/user_registration.json', {

      'username': `${faker.name.firstName()}.${faker.name.lastName()}.${faker.random.number(10000)}`,
      'useremail': `${faker.internet.email()}`,

      'password': `${faker.internet.password(pwdLeftPart)}${specialChar}${faker.internet.password(pwdRightPart)}`
    })
  })
)
```

For the random data, we import `faker` to the command, using JavaScript's `require` function.

Then we use `cy.writeFile`, to write a file called `user_registration.json` in the `cypress/fixtures/` directory. As a second argument, we pass an object, which will contain the value of that file. Now this custom command is imported as below, so that it is available to cypress.

```
// cypress/support/index.js
import './commands'
import '../fixtures/user_registration'
```

And finally here is the sample fixture file with the random data.

```
// cypress/fixtures/user_registration.json
{
  "username": "Dashawn.Franey.8991",
  "useremail": "Finn.Witting@gmail.com",
  "password": "y_02@zXDC0"
}
```