



Continuous Integration

Utilizing Linux and some programs to create a fake display, it is possible to run [WebDriver](#) tests with [tauri-driver](#) on your CI. The following example uses the [WebdriverIO](#) example we [previously built together](#) and GitHub Actions.

This means the following assumptions:

1. The Tauri application is in the repository root and the binary builds when running `cargo build --release`.
2. The [WebDriverIO](#) test runner is in the `webdriver/webdriverio` directory and runs when `yarn test` is used in that directory.

The following is a commented GitHub Actions workflow file at `.github/workflows/webdriver.yml`

```
# run this action when the repository is pushed to
on: [push]

# the name of our workflow
name: WebDriver

jobs:
  # a single job named test
  test:
    # the display name of the test job
    name: WebDriverIO Test Runner

    # we want to run on the latest linux environment
    runs-on: ubuntu-latest

    # the steps our job runs **in order**
    steps:
      # checkout the code on the workflow runner
      - uses: actions/checkout@v2

      # install system dependencies that Tauri needs to compile on Linux.
      # note the extra dependencies for `tauri-driver` to run which are: `webkit2gtk-driver`
      # and `xvfb`
      - name: Tauri dependencies
        run: >-
          sudo apt-get update &&
          sudo apt-get install -y
```

```
libgtk-3-dev
libayatana-appindicator3-dev
libwebkit2gtk-4.0-dev
webkit2gtk-driver
xvfb
```

```
# install the latest Rust stable
```

```
- name: Rust stable
  uses: actions-rs/toolchain@v1
  with:
    toolchain: stable
```

```
# we run our rust tests before the webdriver tests to avoid testing a broken application
```

```
- name: Cargo test
  uses: actions-rs/cargo@v1
  with:
    command: test
```

```
# build a release build of our application to be used during our WebdriverIO tests
```

```
- name: Cargo build
  uses: actions-rs/cargo@v1
  with:
    command: build
    args: --release
```

```
# install the latest stable node version at the time of writing
```

```
- name: Node v16
  uses: actions/setup-node@v2
  with:
    node-version: 16.x
```

```
# install our Node.js dependencies with Yarn
```

```
- name: Yarn install
  run: yarn install
  working-directory: webdriver/webdriverio
```

```
# install the latest version of `tauri-driver`.
```

```
# note: the tauri-driver version is independent of any other Tauri versions
```

```
- name: Install tauri-driver
  uses: actions-rs/cargo@v1
  with:
    command: install
    args: tauri-driver
```

```
# run the WebdriverIO test suite.
```


```
# we run it through `xvfb-run` (the dependency we installed earlier) to have a fake
```

```
# display server which allows our application to run headless without any changes to the
```

code

```
- name: WebdriverIO
```

```
run: xvfb-run yarn test
working-directory: webdriver/webdriverio
```

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