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# Protractor

end to end testing for Angular

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Protractor is an end-to-end test framework for Angular and AngularJS applications. Protractor runs tests against your application running in a real browser, interacting with it as a user would.

**Test Like a User**

Protractor is built on top of WebDriverJS, which uses native events and browser-specific drivers to interact with your

**For Angular Apps**

Protractor supports Angular-specific locator strategies, which allows you to test Angular-specific elements without any setup effort

**Automatic Waiting**

You no longer need to add waits and sleeps to your test. Protractor can automatically execute the next step in your test the moment the



intro config plus dev about v2.0

*"On the **AngularJS** team, we rely on testing and we always seek better tools to make our life easier. That's why we created Karma - a test runner that fits all our needs."*

[View project on GitHub](#)[npm install karma](#)





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Material Design components for Angular

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## Puppeteer

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Puppeteer is a Node library which provides a high-level API to control **headless** Chrome or Chromium over the **DevTools Protocol**. It can also be configured to use full (non-headless) Chrome or Chromium.

