

	Pros	Cons
<b>Jest</b>	<ul style="list-style-type: none"> <li>- Already integrated into projects made with create-react-app</li> <li>- Lightweight</li> <li>- Quick testing times</li> </ul>	<ul style="list-style-type: none"> <li>- No UI, command line only</li> <li>- Complicated to write integration and e2e tests</li> </ul>
<b>Puppeteer</b>	<ul style="list-style-type: none"> <li>- Simple to install, no configuration</li> <li>- Can use headless or headful chrome</li> <li>- Can measure website performance</li> <li>- Multi-device emulation</li> <li>- Geo-location emulation</li> </ul>	<ul style="list-style-type: none"> <li>- Chromium based -&gt; can only test in chrome (puppeteer firefox in dev)</li> <li>- Not made for testing (can be used for testing)</li> </ul>
<b>Cypress</b>	<ul style="list-style-type: none"> <li>- Features unit, integration, and e2e testing</li> <li>- Uses GUI to easily view and run tests</li> <li>- Uses headful chrome so you can see the interactions real-time</li> <li>- Can use chrome, firefox, and edge</li> <li>- First party github action for CI support, headless execution, etc</li> </ul>	<ul style="list-style-type: none"> <li>- Heavyweight</li> <li>- Long testing / loading times</li> </ul>

#### MISC:

- Puppeteer and Jest are typically used in conjunction (Jest + Cypress is also used)
- I am already familiar with Cypress
- We should have a CI / CD? pipeline
  - o Tests code before completing commit/push
  - o Merge frequently
  - o Keep master deployable