

What is "Testing"?

Manual Testing

Write Code <> Preview & Test
in Browser

Very important: You see what
your users will see



Error-prone: It's hard to test all
possible combinations and
scenarios

Automated Testing

Code that tests your code

You test the individual building
blocks of your app



Very technical but allows you to
test ALL building blocks at once

Different Kinds Of Automated Tests

Unit Tests

Test the **individual building blocks** (functions, components) **in isolation**

Projects typically contain dozens or hundreds of unit tests

The most common / important kind of test

Integration Tests

Test the **combination** of multiple building blocks

Projects typically contain a couple of integration tests

Also important, but focus on unit tests in most cases

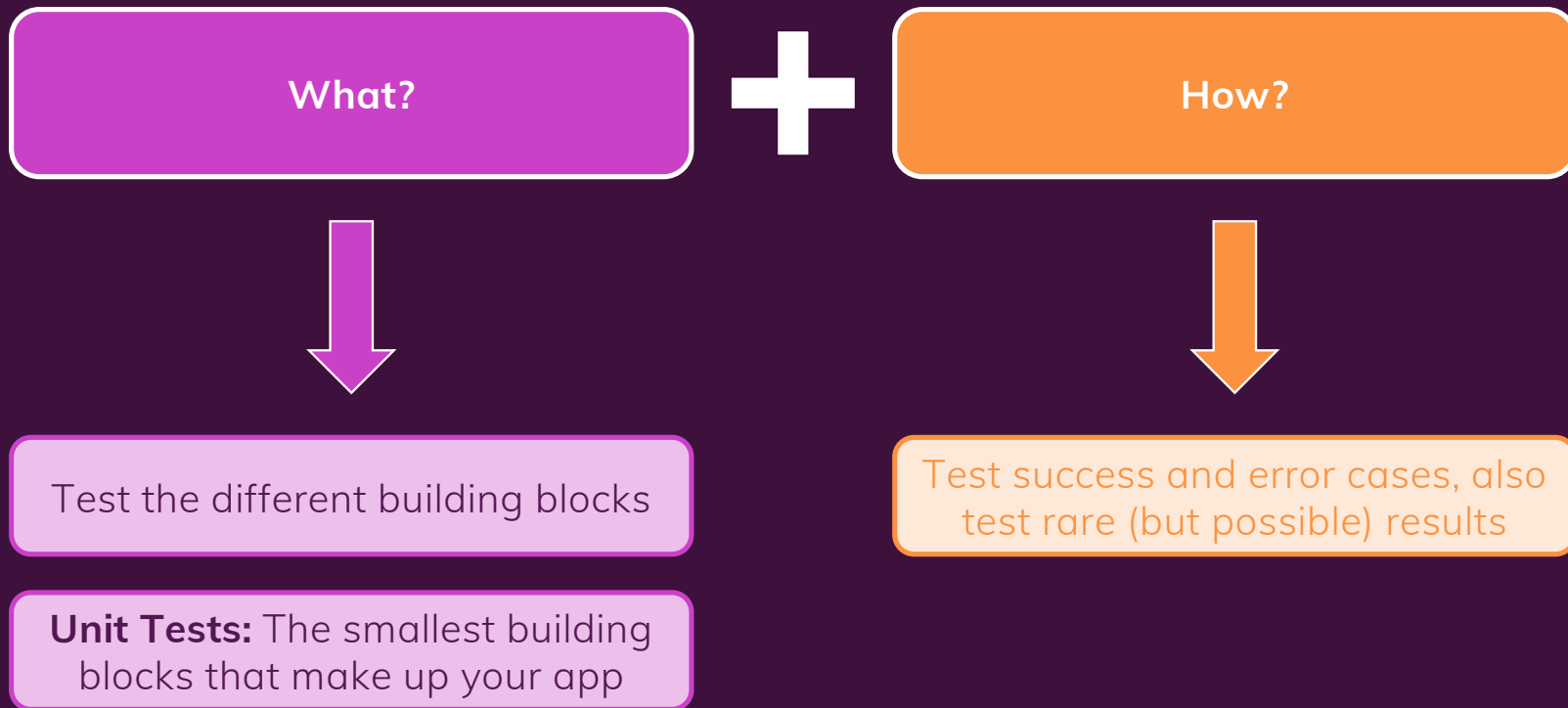
End-to-End (e2e) Tests

Test complete scenarios in your app as the user would experience them

Projects typically contain only a few e2e tests

Important but can also be done manually (*partially*)

What To Test



Required Tools & Setup

We need a tool for running our tests and asserting the results



We need a tool for “simulating” (rendering) our React app / components



Jest



React Testing Library



Both tools are already set up for you when using create-react-app



Writing Tests – The Three “A”s

