

Testing Angular Applications



Joe Eames

Google Developer Expert

@josepheames | joe-eames.me

Overview



Unit tests

End-to-end tests



Unit Tests and End to End Tests

Unit Tests

Test a single “unit”. Method/class.

Fast to execute, easy to write.

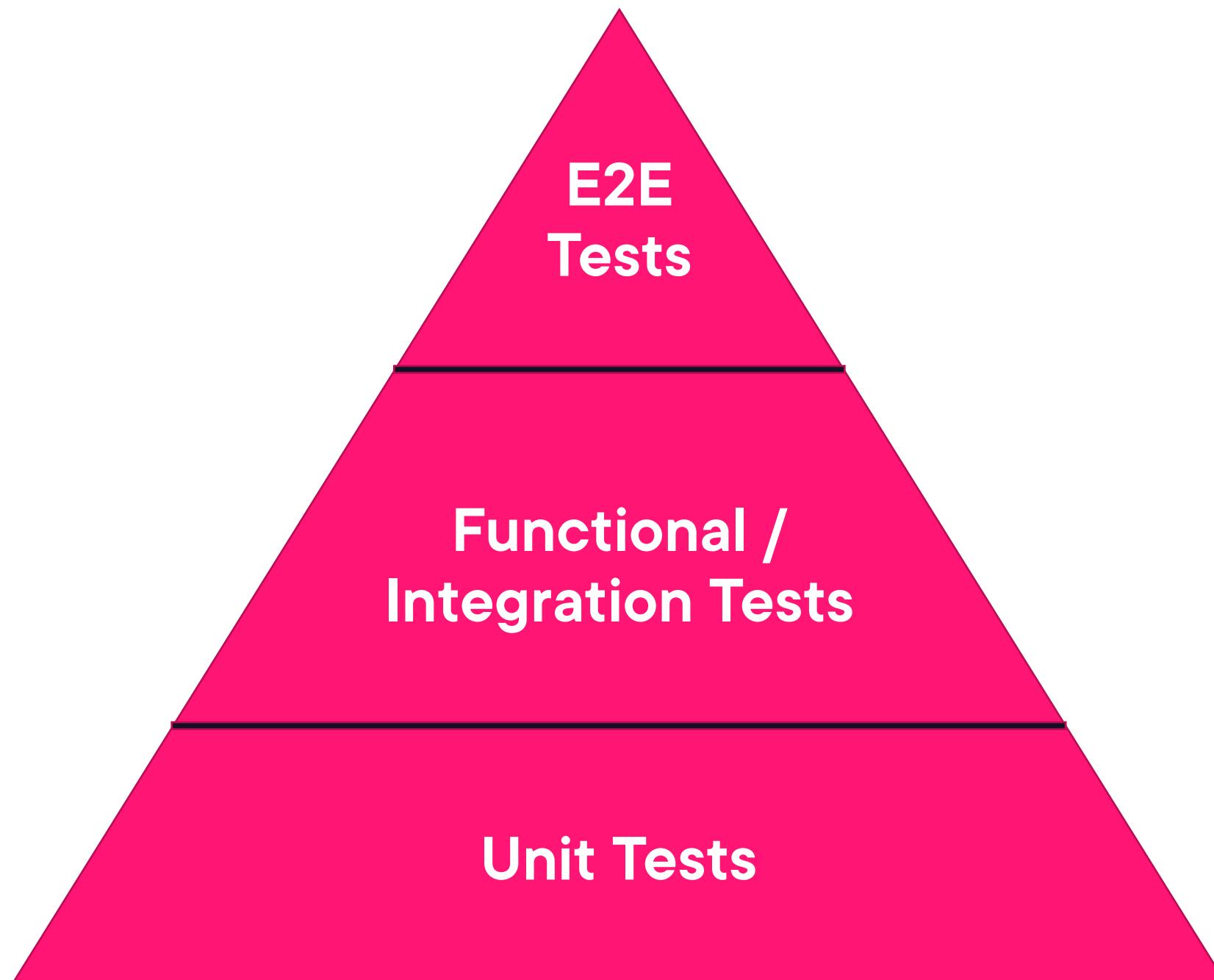
End to End Tests

Test an application action, or user story.

Slow to execute, more difficult to write.



Testing Pyramid



Benefits of Unit Testing

- Assure code works as written**
- Easy to test unusual conditions**
- Easy to test all code branches**
- Stop regression bugs**



Benefits of End to End Testing

Assure units work together

Test actual app functionality that users care about

Stop regression bugs



Defining Inputs

```
export class Details {  
  @Input() lineItem: LineItem;  
  
  getTotal() {  
    return this.lineItem.qty * this.lineItem.price;  
  }  
}
```



Summary



Unit tests and end-to-end tests

Running tests

Modifying tests



@josepheames
@jimthecoop



Thanks

