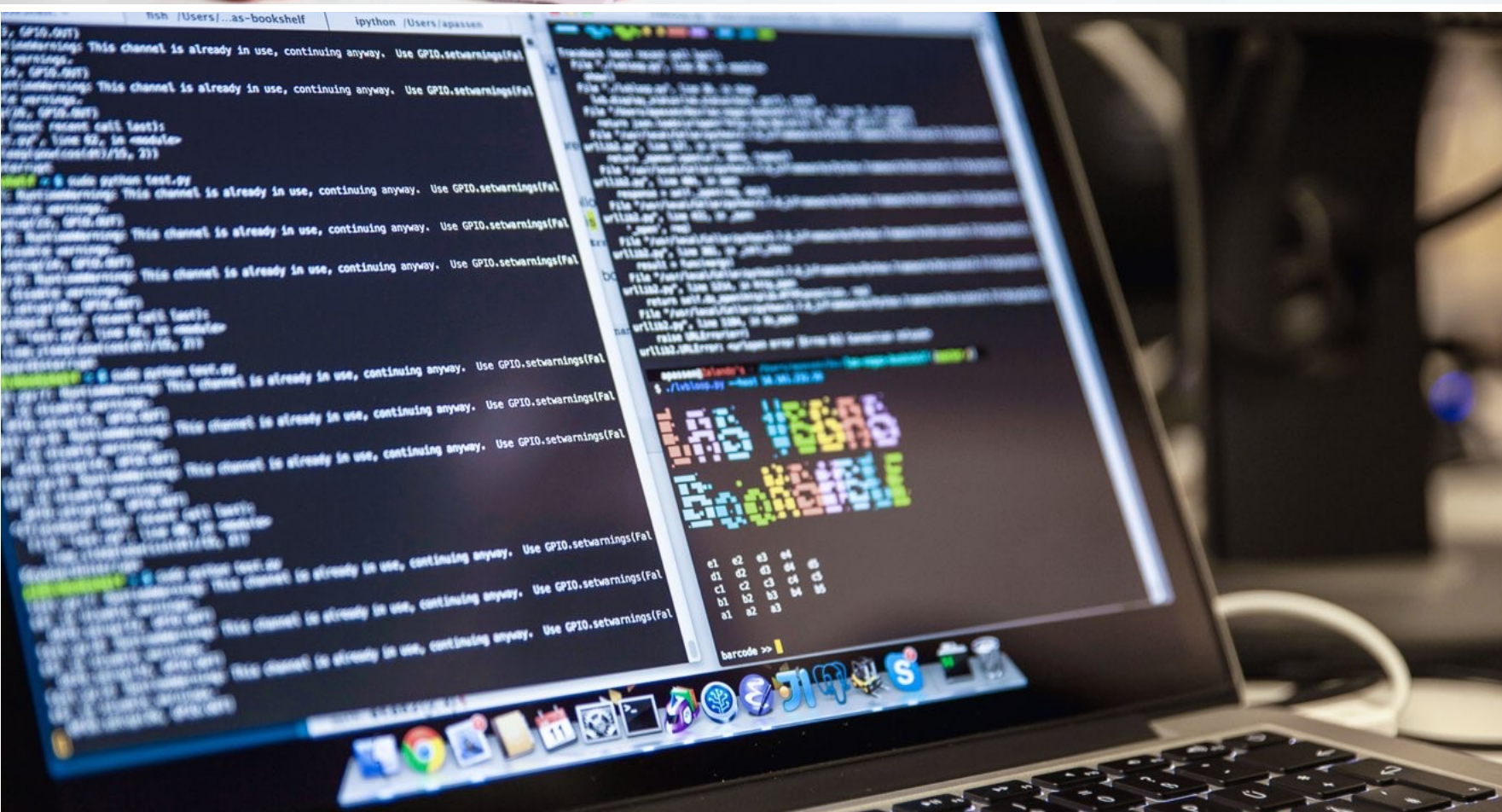




BATTLE OF THE FRAMEWORKS

ANGULAR, REACT OR VUE?



LORA VARDAROVA

20-06-2018



ZALANDO AT A GLANCE

~ **4.5** BILLION EUR
revenue 2017

> **200**
million
visits
per
month

> **23**
million
product choices

> **15,000**
employees in
Europe

> **75%**
of visits via
mobile devices

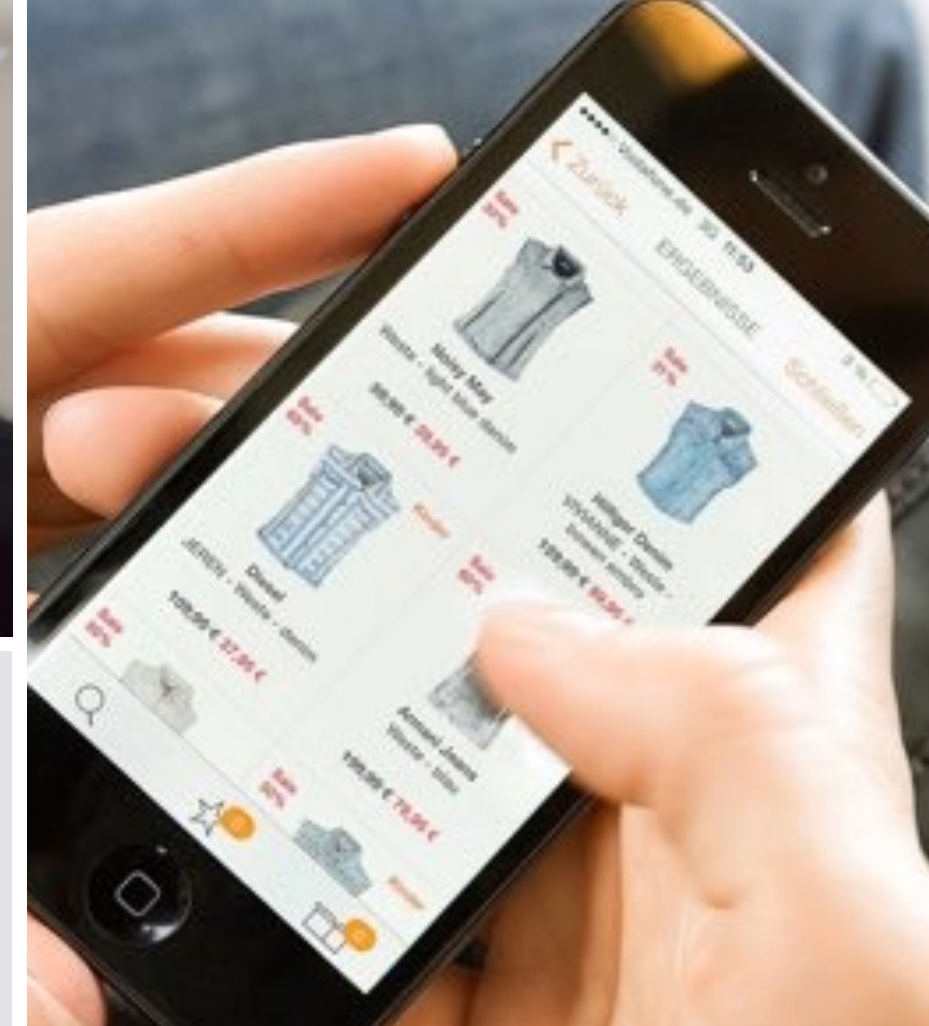
> **23**
million
active customers

~ **2,000**
brands

15
countries

WE ARE CONSTANTLY INNOVATING TECHNOLOGY

**HOME-BREWED,
CUTTING-EDGE,
SCALABLE**
technology solutions



help our brands to
WIN ONLINE



~ 2,000
employees from



77
nations



7 tech locations
(HQs in Berlin)



AGENDA

History Lesson

Frameworks Comparison

Lessons Learned

Questions Worth Asking

Zalando Tech Radar

Wrap-up

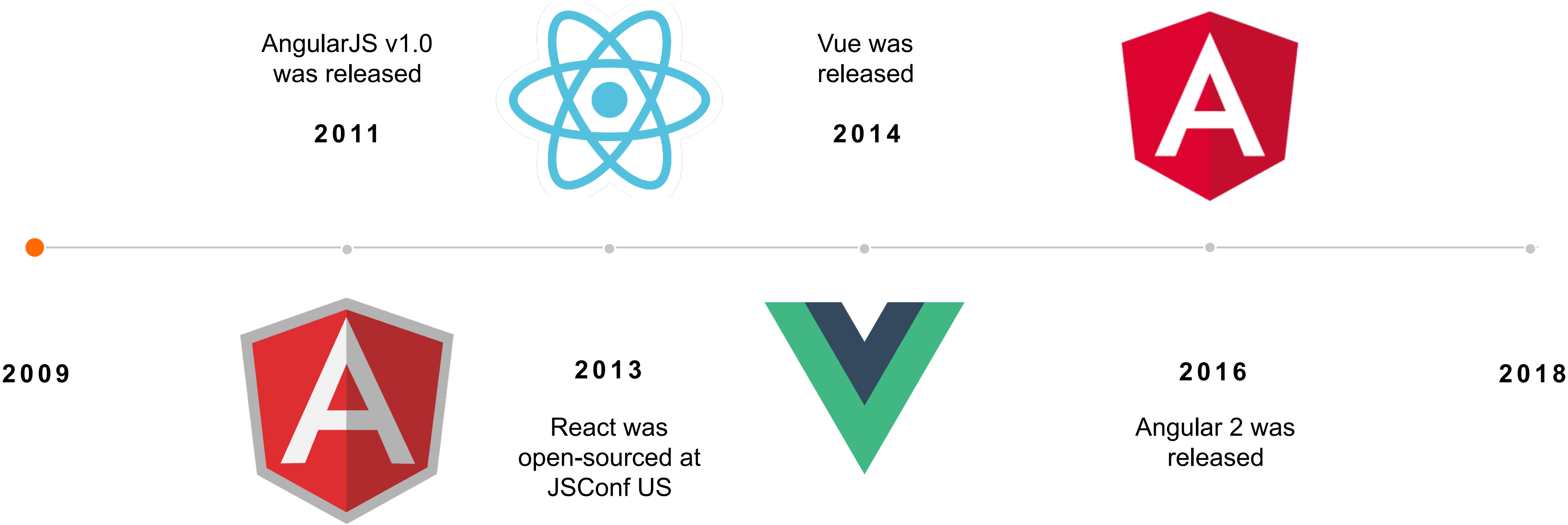
HISTORY LESSON

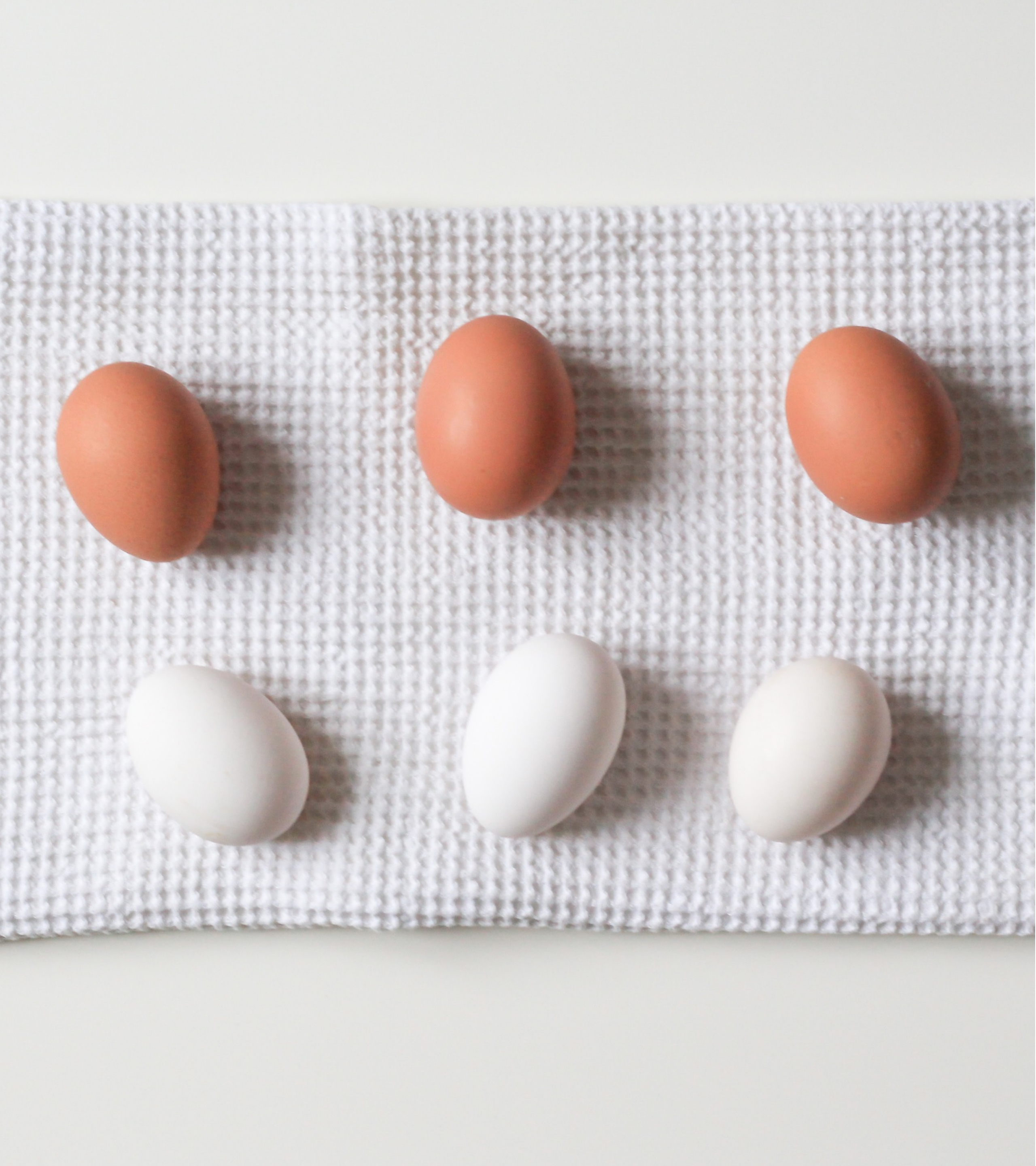


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HISTORY LESSON

2009 - 2018

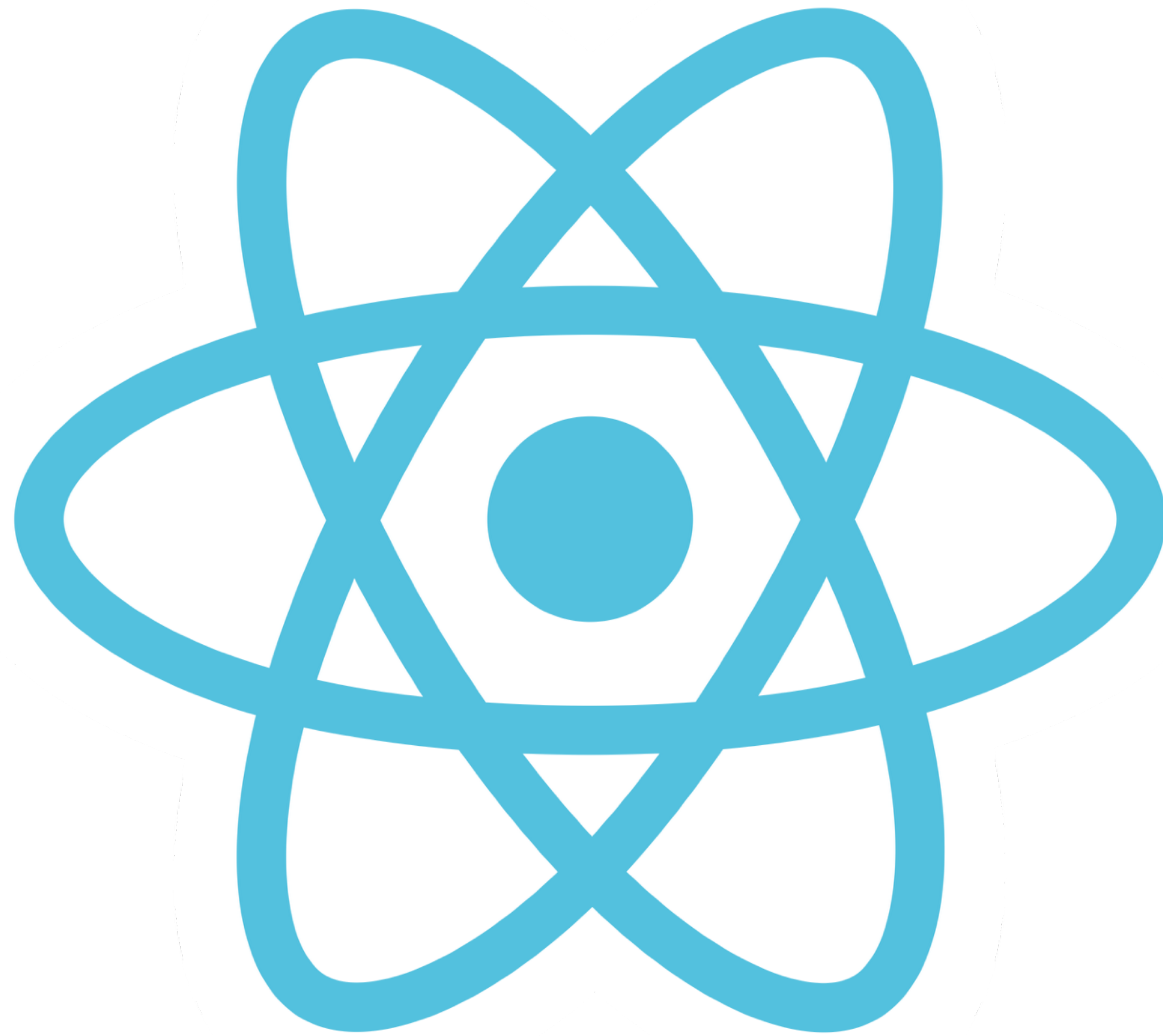




FRAMEWORKS COMPARISON



REACT



KEY CONCEPTS

- Virtual DOM
- Components
- JSX

ANGULAR



KEY CONCEPTS

- Components
- Dependency injection
- Bindings

VUE



KEY CONCEPTS

- Virtual DOM
- Data-driven view
- Single-file components

FRAMEWORKS COMPARISON

ECOSYSTEMS

	REACT	ANGULAR	VUE
BOOTSTRAP	create-react-app	angular-cli	vue-cli
ROUTER	react-router	angular-route	vue-router
STATE MANAGEMENT	Redux	Redux/ngrx	Vuex
SERVER RENDERED APP	Next	Angular Universal	Nuxt
MOBILE	React Native	NativeScript	Weex / NativeScript



LESSONS LEARNED



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TODO APP IS TOO SIMPLE

ALTERNATIVES



RealWorld example apps

HN PWA

DOCUMENTATION IS IMPORTANT

COMMUNITY IS IMPORTANT



QUESTIONS WORTH ASKING



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HOW HIGH IS THE BUS FACTOR?

**WHAT DOES THE PRODUCT ROADMAP LOOK
LIKE?**



ZALANDO TECH RADAR



@LoraVardarova



[OPENSOURCE.ZALANDO.COM/TECH-RADAR](https://opensource.zalando.com/tech-radar)

ZALANDO TECH RADAR

Frameworks

ADOPT

1. Akka (Scala)
2. Node.js
3. OpenAPI (Swagger)
4. Play (Scala)
5. ReactJS
6. RxJava (Android)
7. scikit-learn
8. Spring

ASSESS

15. Akka-Http
16. Aurelia
17. Ember.js
18. gRPC
19. Http4s
20. jOOQ
21. Redux
22. Vert.x
23. Vue.js

TRIAL

9. Angular
10. AspectJ
11. Camel
12. Camunda
13. OpenNLP
14. Thymeleaf

HOLD

24. Activiti
25. AngularJS 1.x
26. BackboneJS
27. Drools
28. Spray

Infrastructure

ADOPT

69. Docker
70. HAProxy
71. Hystrix
72. Jetty
73. Kubernetes
74. Nginx
75. STUPS
76. Tomcat
77. ZMON

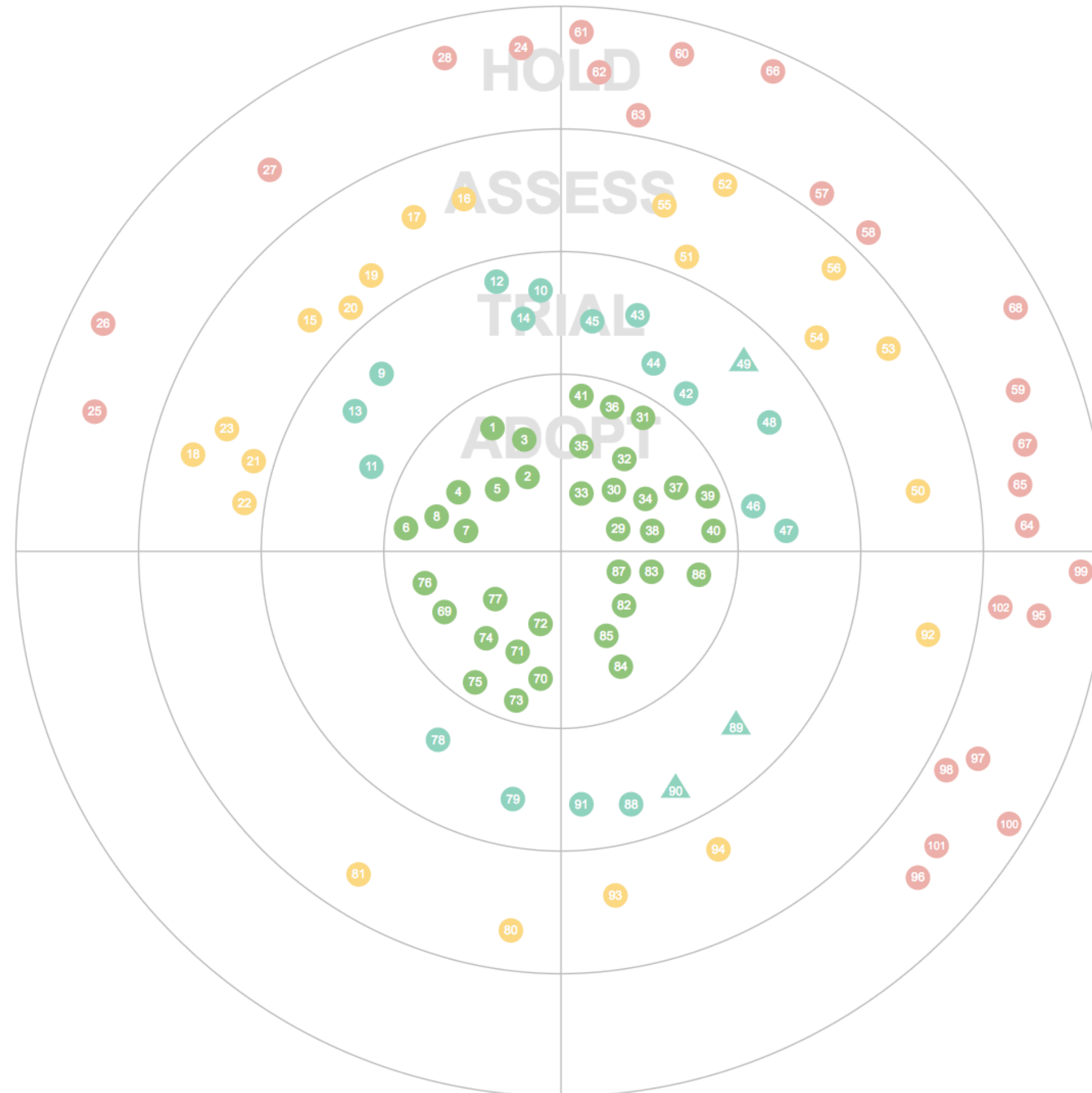
ASSESS

80. AWS Lambda
81. OpenTracing

HOLD

TRIAL

78. Failsafe
79. Undertow



Data Management

ADOPT

29. AWS EMR
30. AWS S3
31. AWS SNS
32. AWS SQS
33. Cassandra
34. Elasticsearch
35. etcd
36. Kafka
37. Nakadi
38. PostgreSQL
39. Redis
40. Solr
41. Spark

ASSESS

50. Airflow
51. AWS Kinesis
52. Consul
53. Google Bigtable
54. Hadoop
55. RocksDB
56. YARN

HOLD

57. ActiveMQ
58. Aerospike
59. CouchBase
60. Esper
61. HBase
62. HornetQ
63. Memcached
64. MongoDB
65. MySQL
66. Oracle DB
67. Riak
68. ZooKeeper

TRIAL

42. AWS Data Pipeline
43. AWS DynamoDB
44. Flink
45. Google BigQuery
46. HDFS
47. KairosDB
48. Presto
49. RabbitMQ

Languages

ADOPT

82. Go
83. Java
84. JavaScript
85. Python
86. Scala
87. Swift

ASSESS

92. Elm
93. R
94. Rust

HOLD

95. .NET languages
96. C languages
97. CoffeeScript
98. Erlang
99. Groovy
100. Perl
101. PHP
102. Ruby

TRIAL

88. Clojure
89. Haskell
90. Kotlin
91. TypeScript



WRAP-UP



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THERE **ISN'T** A BEST FRAMEWORK

TAKEAWAYS

SET A DEADLINE



Don't enter the decision trap

KNOW YOUR PRODUCT



Have the product roadmap in mind

REDUCE THE BUS FACTOR



Know your community



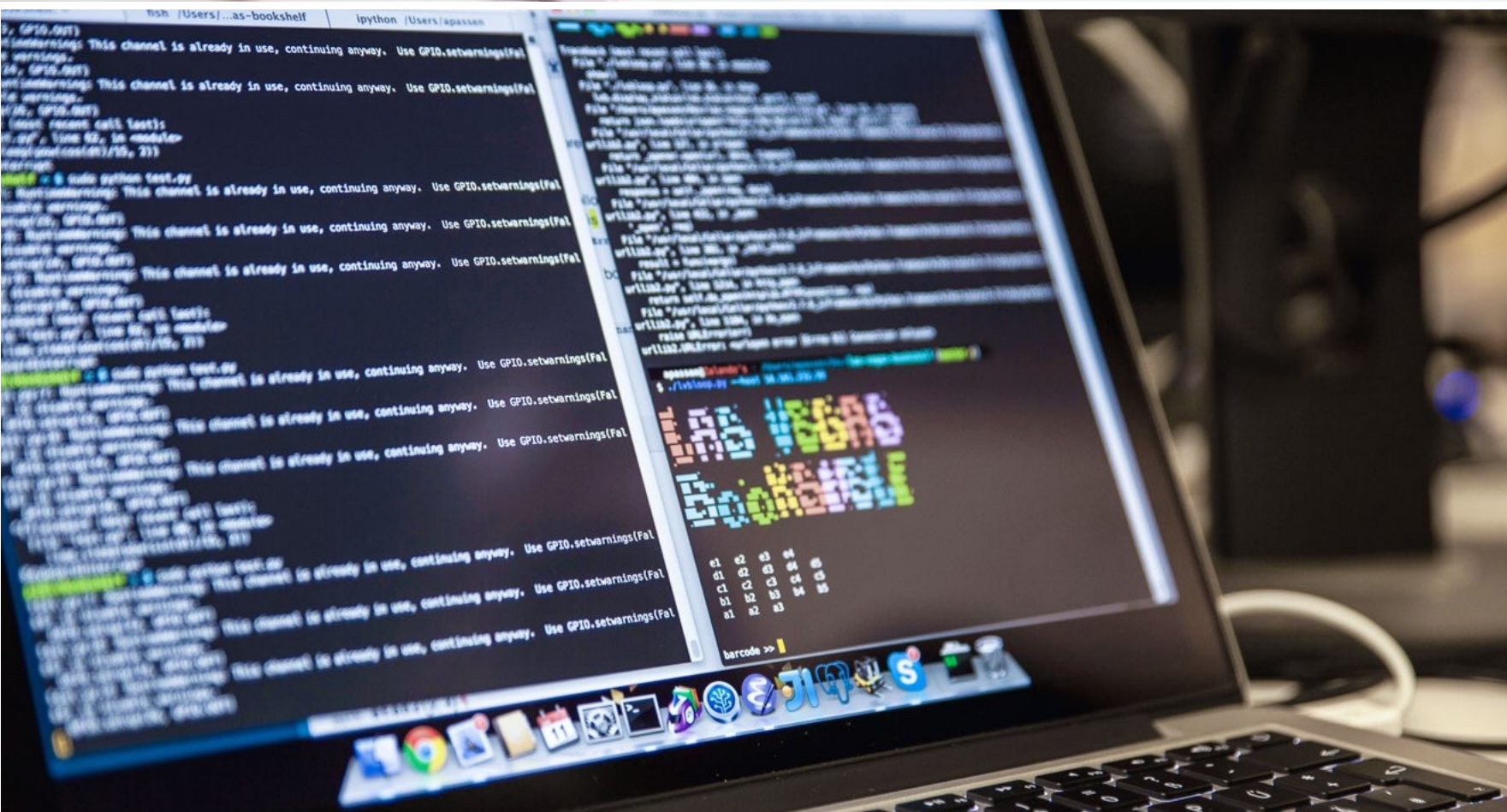
DO NOT ASK WHAT THE BEST FRAMEWORK IS,
ASK WHAT THE MOST **SUITABLE** FRAMEWORK
FOR **YOUR PRODUCT** AND **YOUR TEAM** IS



LORA VARDAROVA
Zalando Loyalty
Frontend Software Engineer



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20-06-2018

