Invoca Tech Radar 2022.04

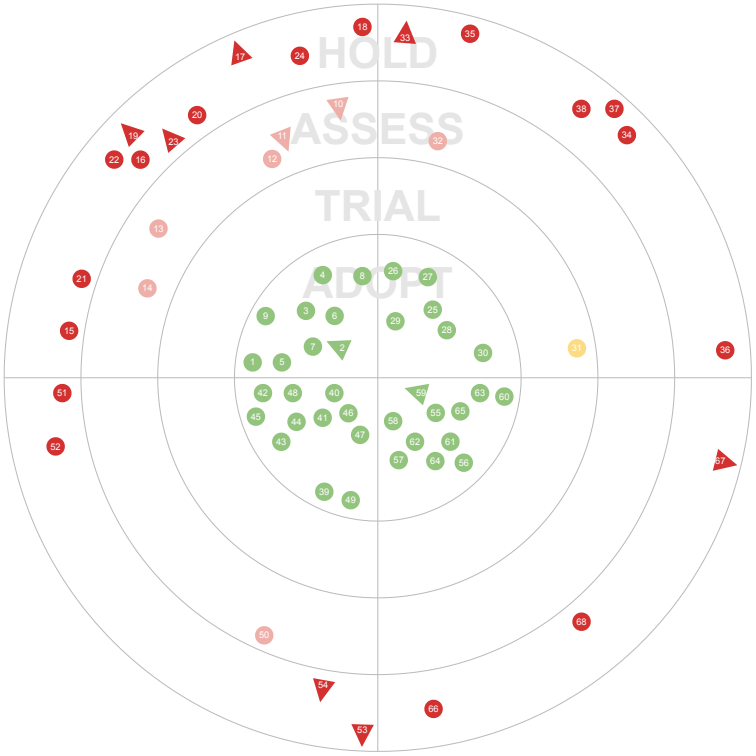
Languages & Libraries

ADOPT
1. C++
2. Event Machine + Synchrony
3. JavaScript
4. Python
5. RSpec
6. Ruby
7. Ruby on Rails
8. Sidekiq
9. Sinatra

TRIAL

ASSESS
10. Async
11. Falcon
12. Go
13. NodeJS
14. Rust

HOLD
15. Capistrano
16. DelayedJob
17. Elixir
18. Event Machine
19. Goliath
20. MiniTest
21. PhantomJS
22. PHP
23. RR
24. Unicorn



Data management

ADOPT
25. AWS S3
26. ElasticSearch
27. Kafka
28. Kafka Racecar
29. MySQL
30. Redis

TRIAL
31. DataBricks

ASSESS
32. AWS Dynamo

HOLD
33. AWS ElastiCache
34. Memcache
35. MongoDB
36. PostgreSQL
37. RabbitMQ
38. Redshift

Infrastructure

ADOPT
39. AWS ALBs
40. Consul
41. Docker
42. Grafana
43. Kamailio
44. Kibana
45. Kubernetes
46. Logstash
47. Nginx
48. Prometheus
49. Vault

TRIAL

ASSESS
50. Kustomize

HOLD
51. AWS ELBs
52. Chef
53. Graphite
54. Statsd

Design Patterns & Techniques

ADOPT
55. Composable
56. Cooperative Concurrency
57. Design By Contract
58. Functional
59. GraphQL
60. Immutable
61. JSON APIs
62. Object Oriented
63. Orthogonal
64. Service-Oriented/Componentized
65. TDD

TRIAL

ASSESS

HOLD
66. Monolithic
67. REST APIs
68. Threaded Concurre

▲ moved up ▼ moved down

What is the Tech Radar?

The Invoca Tech Radar is a list of technologies, complemented by an assessment result, called *ring assignment*. We use four rings with the following semantics:

- **ADOPT** — Technologies we have high confidence in to serve our purpose, also in large scale. Technologies with a usage culture in our Invoca production environment, low risk and recommended to be widely used.
- **TRIAL** — Technologies that we have seen work with success in project work to solve a real problem; first serious usage experience that confirm benefits and can uncover limitations. TRIAL technologies are slightly more risky; some engineers in our organization walked this path and will share knowledge and experiences.
- **ASSESS** — Technologies that are promising and have clear potential value-add for us; technologies worth to invest some research and prototyping efforts in to see if it has impact. ASSESS technologies have higher risks; they are often brand new and highly unproven in our organisation. You will find some engineers that have knowledge in the technology and promote it, you may even find teams that have started a prototyping effort.
- **HOLD** — Technologies not recommended to be used for new projects. Technologies that we think are not (yet) worth to (further) invest in. HOLD technologies should not be used for new projects, but usually can be continued for existing projects.

What is the purpose?

The Tech Radar is a tool to inspire and support Engineering teams at Invoca to pick the best technologies for new projects; it provides a platform to share knowledge and experience in technologies, to reflect on technology decisions and continuously evolve our technology landscape. Based on the pioneering work of ThoughtWorks, and forked from Zalando, our Tech Radar sets out the changes in technologies that are interesting in software development — changes that we think our engineering teams should pay attention to and use in their projects.

How do we maintain it?

The Tech Radar is maintained by our Principal Engineers & Software Architects group. Anyone can propose changes or updates to the radar via pull request.