



A Study in Frontend Unit Testing: ArcGIS Velocity

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2021 ESRI
DEVELOPER SUMMIT

Automating Tests

Why is test automation important?

- Helps you detecting bugs and regressions
- Makes refactorings safer and faster
- Manual testing is boring and leads to mistakes
- Ensures your software can be released into production any time

The Test Pyramid

complex

slower

E2E Tests

Snapshot Tests

Unit Tests

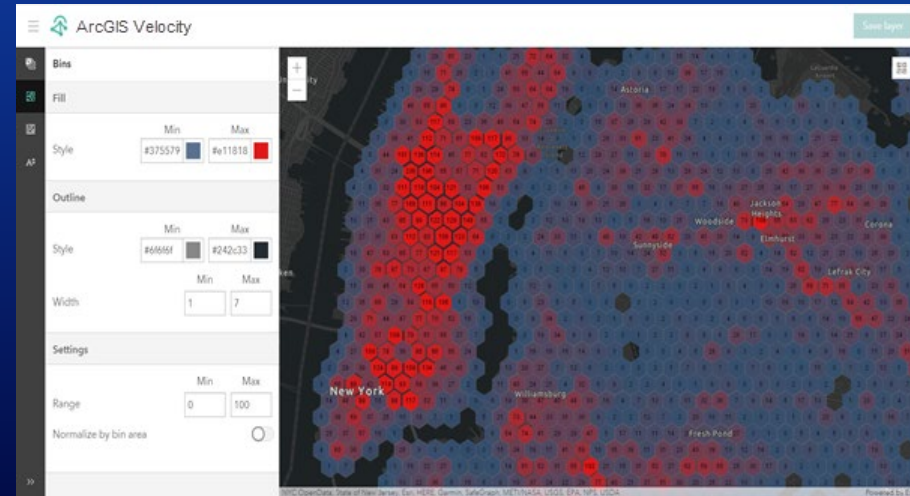
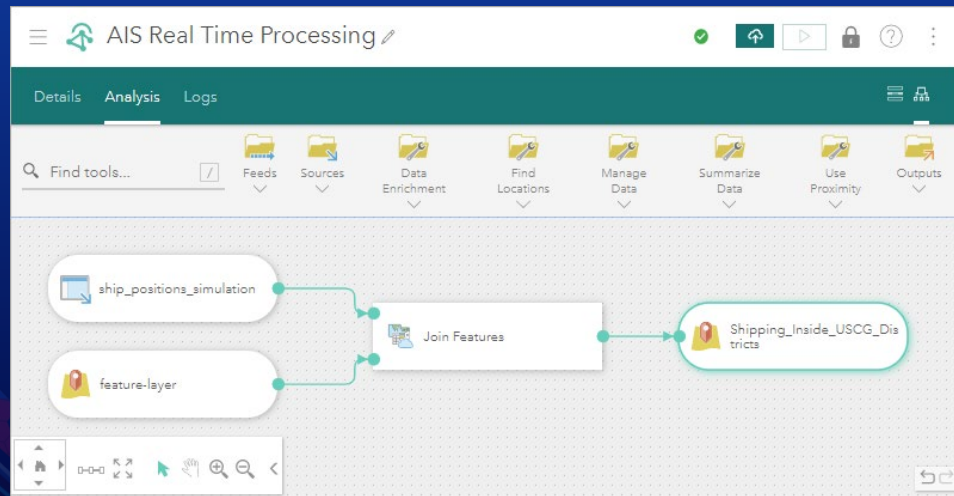
easy

faster



ArcGIS Velocity

- Enables users to ingest data from the Internet of Things (IoT) platforms, message brokers, or third-party APIs
- Helps users process, visualize, and analyze real-time data feeds; store those feeds as big data; and perform fast queries and analysis
- Consists of a back end application, REST API layer, and front-end web app



<https://youtu.be/iP-0QQamMLE>



How We Built It: ArcGIS Analytics for IoT Front End

Cody Lawson & Ben Schroeder

2020 ESRI DEVELOPER SUMMIT | Palm Springs, CA



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- <https://www.esri.com/en-us/arcgis/products/arcgis-velocity/overview>
- <https://create-react-app.dev/>
- <https://jestjs.io/>
- <https://testing-library.com/>
- <https://github.com/reduxjs/redux-mock-store>