

Agile and Dependable Service Development

with Bosque and Morphir

Writing microservices should be easy

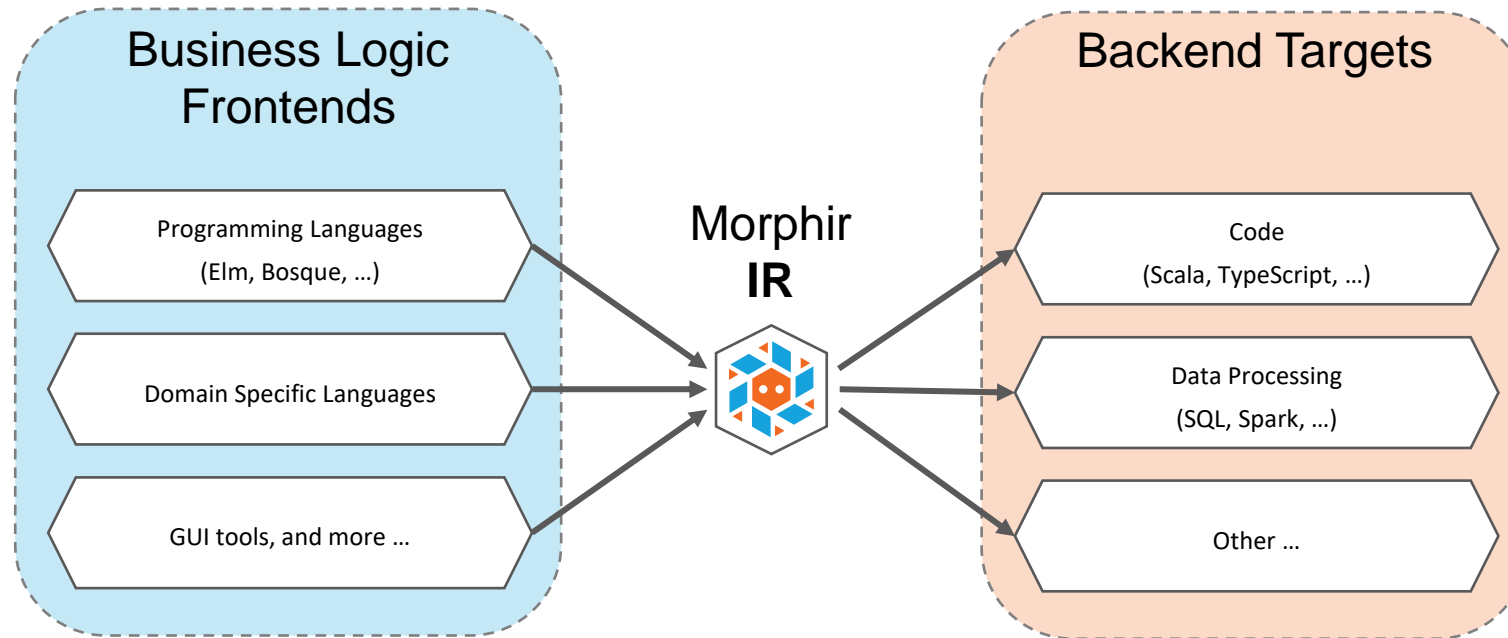
- They're just functions:
 - Business logic that takes a request and returns an answer.
- A lot standards in our way if this simplicity:
 - Bugs
 - Testing
 - Technology and framework choices
 - Documentation
 - Hygiene & keeping tech up-to-date
 - Following blueprints and best practices
 - Regulations
 - Monitoring
 - Security & vulnerability remediation
 - Supportability
 - Audit
 - Evolution & future readiness
 - Telemetry, metrics, and observability

Technology To Reduce the Friction

- Get developers back to focusing on the business logic and specs. Automate the rest:
- Bosque
 - Bugs
 - Testing
 - API
 - etc.
- Morphir
 - Optimize user/developer dialog
 - Boilerplate automation

Morphir

- **FINOS** project contributed by **Morgan Stanley**
- **Core:** Business-focused Intermediary Representation (IR)
- **Tools:** parsers, verifiers, **transpilers**



Business / Developer Collaboration

- Improve development by bringing the business and developer closer.
- Shared language
- Instant feedback

Example

- Let's look at designing another service that uses our weather forecast.
- This time, we're modeling decisions. In this case, we have a sailboat rental company and want to determine if rentals should be open based on the weather.
- This involves getting the decision specifications from the company owner.
- We get these decision points, which we review with Morpher tools:
 - Only novice and experts during high wind conditions
 - Only expert sailors during dangerous winds
 - No rentals during thunderstorms
- ...

Using Morphir to Collaborate

- First off, how do we categorize windspeeds to the owner's descriptions?