# **Translating Chalice into SIL**

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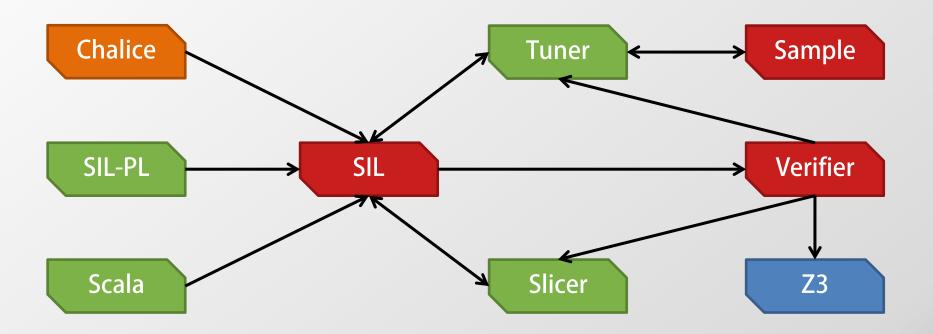
## The Semper Project

- Long term project
- Automatic program verifier for Scala
  - verify concurrent programs
  - reduce annotation overhead
  - deal with functional features (e.g., closures)



### Chalice2SIL Semper

### Semper Architecture Design



#### SIL

```
method n()
requires rd(this.f)
ensures rd(this.f)
call n();
```

#### «Inhale/Exhale»

```
method n() ...
inhale rd(this.f);
•••
exhale rd(this.f);
exhale rd(this.f);
inhale rd(this.f);
```

Chalice2SIL Semper

Thank you

**QUESTIONS?**