# Directembedding

### Concealing the Deep Embedding of DSLs

### Ólafur Páll Geirsson

École Polytechnique Fédérale de Lausanne School of Computer and Communication Sciences



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## Overview

- Motivation
- Directembedding
- 3 Case study: slick-direct

## Motivation

#### Mission statement

Enable wider adoption of embedded DSLs

# The Struggle

#### **DSL** Author

Possible expert, wants full control over DSL behaviour

#### **DSL** User

Possible beginner, wants user-friendly interface

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  - Architecture
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Pipeline

## Shallow query

```
query {
  Query[User].filter(_.name == "Olafur")
}
```



Pipeline

# PreProcessing

```
query {
  Query[User].filter(_.name == "Olafur")
}
```



Pipeline

#### **DSL Virtualization**

```
query {
  Query[User].filter(_.name == "Olafur")
}
```



### Pipeline

### Reification Transformation

```
query {
  Query[User].filter(_.name == "Olafur")
}
```



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