



## UVLS: A Language Server Protocol For UVL

SPLC'23 | Jacob Loth, Chico Sundermann, Tobias Schrull, Thilo Brugger, Felix Rieg, **Thomas Thüm** | August 31, 2023

# Universal Variability Language

- Community effort within MODEVAR initiative
- Textual format for variability models

features

UVL

mandatory

Hierarchy

Constraints

Goals

mandatory

"Human Editability"

"Teaching and Learning"

optional

"Editing Support"

constraints

"Human Editability" => "Editing Support"

# Universal Variability Language

- Community effort within MODEVAR initiative
- Textual format for variability models
- Simplify exchange
- Broad tool support

features

UVL

mandatory

Hierarchy

Constraints

Goals

mandatory

"Human Editability"

"Teaching and Learning"

optional

"Editing Support"

constraints

"Human Editability" => "Editing Support"

# Universal Variability Language

- Community effort within MODEVAR initiative
- Textual format for variability models
- Simplify exchange
- Broad tool support
- **Today: Textual editing support**

## features

### UVL

#### mandatory

Hierarchy

Constraints

Goals

#### mandatory

"Human Editability"

"Teaching and Learning"

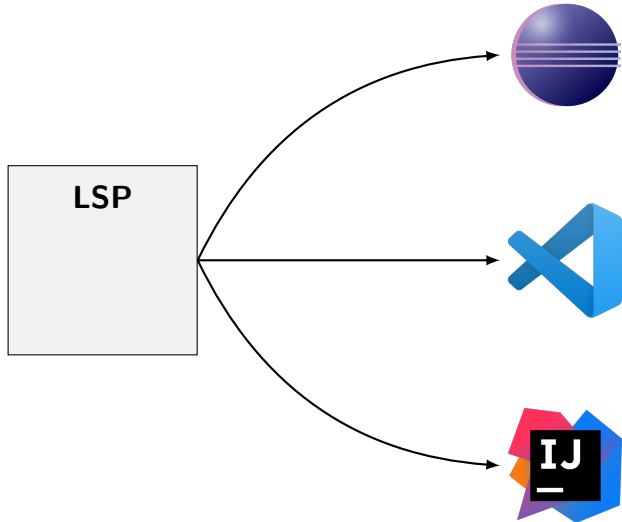
#### optional

"Editing Support"

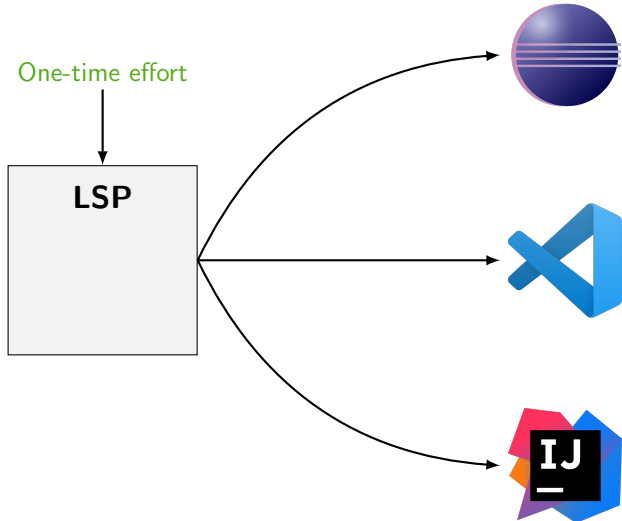
## constraints

"Human Editability" => "Editing Support"

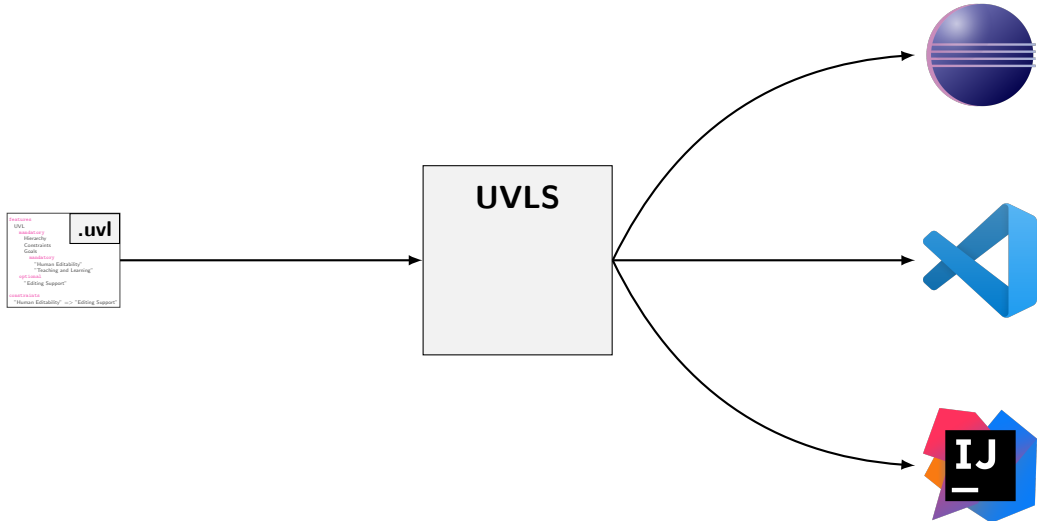
# Editing UVL with Language Server Protocol



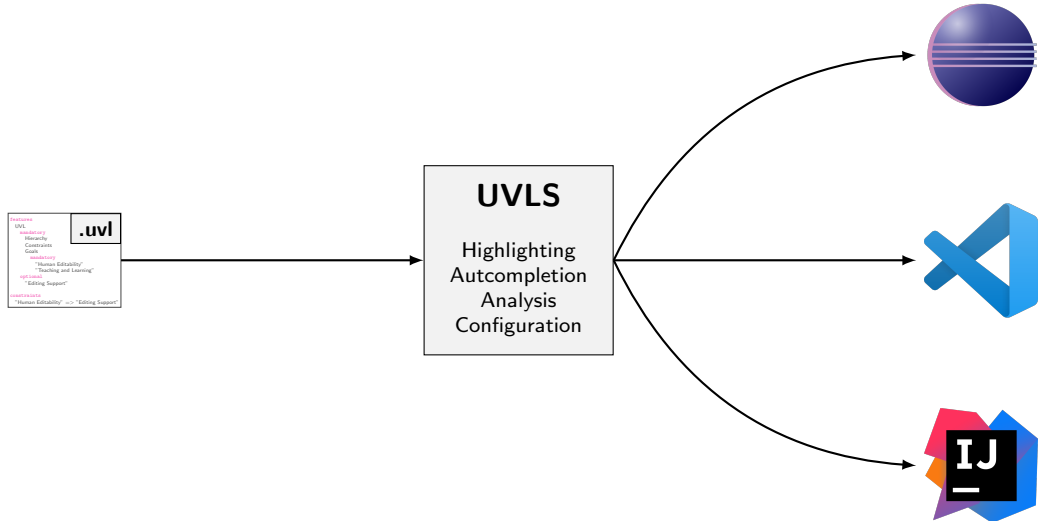
# Editing UVL with Language Server Protocol



# Editing UVL with Language Server Protocol

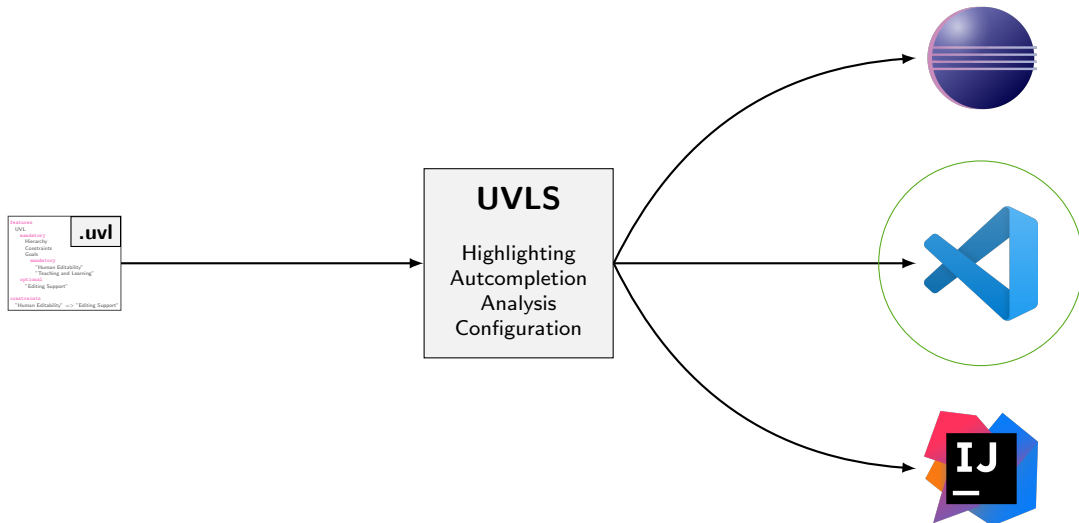


# Editing UVL with Language Server Protocol





## Editing UVL with Language Server Protocol



# Demo Time

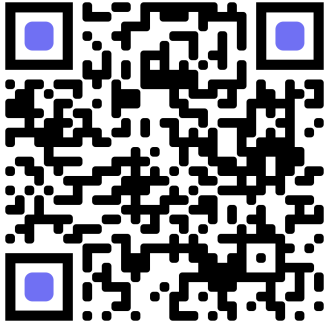


Slideshow



Demo

# UVLS: A Language Server Protocol For UVL



UVLS GitHub Repository



UVLS VSCode Marketplace

# UVLS: A Language Server Protocol For UVL

**1. Universal Variability Language**

**2. Editing UVL with Language Server Protocol**

**3. Demo Time**