

- ❖ Features partial evaluation which simplifies expressions without the need for all variables to be defined
- ❖ IfTrue constructs for conditions and partial evaluations
- ❖ FuzzyEval.eval processes all the operations
- ❖ Primary components:
  - Methods get invoked dynamically where partial evaluations gets applied to methods
    - Dynamic dispatch gets incorporated
  - Variables can map to expressions which allows for partial evaluations
  - Evaluations happen through associative properties during partial evaluations
- ❖ Partial evaluations gets recursively evaluated which results in undefined variables staying the way as they are intended
- ❖ The simplify functions allow for reduction rules
- ❖ The conditional which is done through IfTrue partially evaluates both the conditions and branches
- ❖ Partially evaluated methods are used to handle class hierarchies dynamics
- ❖ SBT:
  - Build.sbt specifies all the settings, versions and dependencies needed to run
  - Sbt compile and sbt test can be used to run the program
- ❖ System requirements:
  - Scala 3.3.0 or better
  - SBT
  - ScalaTest plugin
  - Git clone and compile

- JDK 17
- Compile: **sbt compile**
- Run: **sbt run** or directly from IntelliJ **FuzzyUnitTest** file