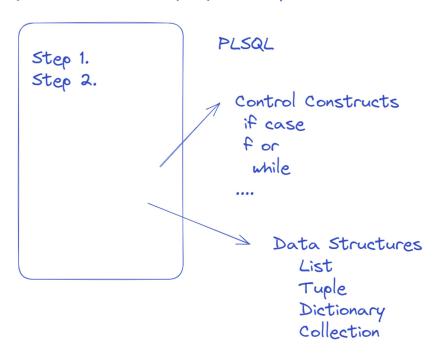
## 4gl (Procedural Languages) C Python Fortran Cobol



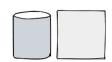
## Object Oriented Programming C++ Java C# public Double sum (Double x, Double y) {..} Encapsulation Polymorphism Attributes Inheritance (Data Structure) Methods private (Control constructs to process) public ald ant x create CustomerRepository update 1. Driver delete CRUD public void sum() 2. Connection select 3. SQL 4. Results 5. Close and release Iversion of Control StaffRepo Dependency Inection

IMPERATIVE LANGUAGES

1 DB 1 SYSTEM (CLUSTERS)

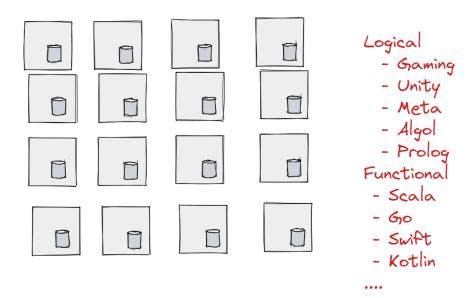
@Table

@Id



@Automapping

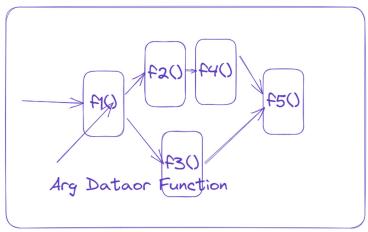
## DECLARATIVE LANGUAGES



 $\int (x_1 y) \longrightarrow x^3 + 2y + 6$ 

 $\dot{x}_i$  y immutable  $f(x_iy)$  can work in infinite only one output (state) is generated x cube + 2y + 6

F(7)



Learn Open Source Programming Language?? (Self Learning)

- Specification (Grammer of the compiler)
- Documentation (Libraries) examples, input, output use case
- API Syntax (Syntax)
- official tutorials
- Tutorials YouTube Courseera