ANALYTIXLABS

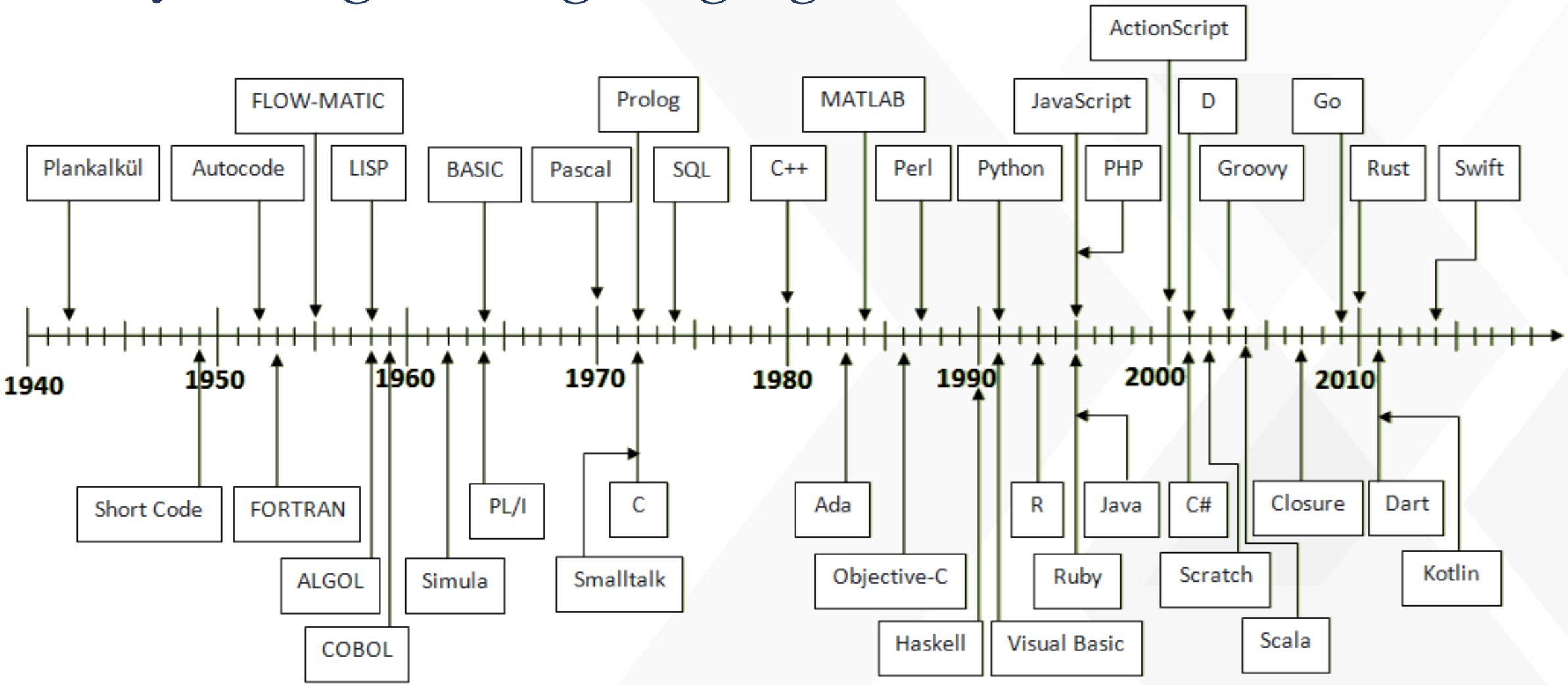
Basic Programming Elements

Lecture 2 – Topics

1. Different programming languages
2. High level vs Low level languages
3. Language translators – Complier and Interpreter
4. Why syntax rules?

Computer/Programming Languages

History of Programming Languages



Classification – basis type

Low level

Codes are written in binary which machine can understand and process directly; however codes written in low level languages are not human readable

Machine Language

Considered as oldest computer language where the input is directly given as binary which is processed by the machine

Assembly Language

Famous for writing an operating system codes for desktop applications. Can't be reused and difficult to understand

High Level

Most of the modern languages are high level where codes are written in human readable form; but can't be understood directly by machine

Procedural/Functional

Follows a set of commands in a specific order. Make use of functions, conditional statements, and variables to create programs.

e.g. C, BASIC, FORTAN, PASCAL

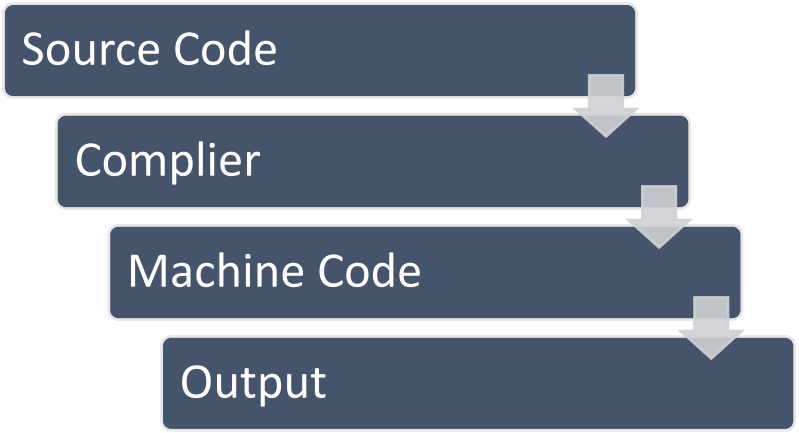
Object Oriented Programming

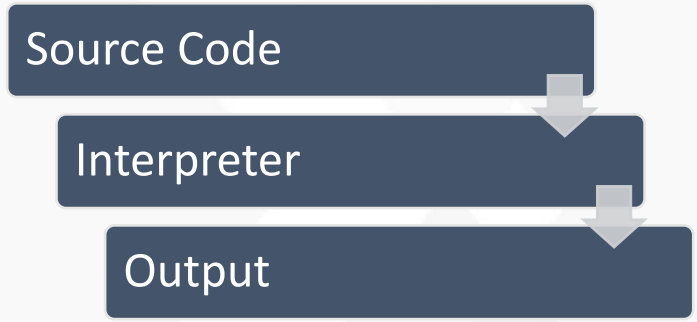
Based on the concept of "objects"; It assumes every task in programming is performed for certain entity/object; which can contain data and code: data in the form of fields, and code, in the form of procedures.

e.g. JAVA, PHP, Python, C++, Dot Net

Compiler and Interpreter

Language translator are the computer programs which translates the human-readable code to a language a computer processor understands (binary 1 and 0)





Compiler transforms **complete code** written in a high-level programming language into the machine code

Interpreter works **line by line** and coverts each high-level program statement into the machine code sequentially

Classification – basis applications

Web Development	Web Designing	Desktop App Development	Smart Phone App Development	Analytics
• PHP • ASP .NET • Python • Java • ROL • Node JS	• HTML • CSS • Java Script • Angular JS/ React JS/ Veu JS	• ADO .NET • C++ • Java • SWIFT	• SWIFT • KOTLIN • React Native • Objective C • Android Java	• Python • R • SAS • SCALA • JULIA • SQL

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