

iOS Course

Third class - version control, programming paradigms



Version Control

Why should you care?

Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later.

- Local
- Centralized
- Distributed

Git

History

- Created in 2005



Linus Torvalds

Git demo

Programming paradigms

Structured programming

Is a **programming paradigm** aimed at improving the clarity, quality, and development time of a computer program by making extensive use of the structured **control flow** constructs of selection (if/then/else) and **repetition** (while and for), **block structures**, and subroutines.

- C, Pasca
- It is possible to do structured programming in any programming language

Object-oriented programming (OOP)

Is a programming paradigm based on the concept of "objects", which can contain data and code: data in the form of fields (often known as attributes or properties), and code, in the form of procedures (often known as methods).

Terminology invoking "objects" and "oriented" in the modern sense of object-oriented programming made its first appearance at MIT in the late 1950s and early 1960s.

Principles of OOP

Object-oriented programming is based on the following principles:

- Encapsulation
- Inheritance
- Polymorphism