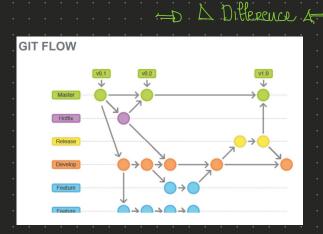
Engine Aechitecture & Design: Review Grostions I Salomi Christiani 1: Engine Setup: 11.11.2024 D What is the difference Bhs. Bit & Bithub

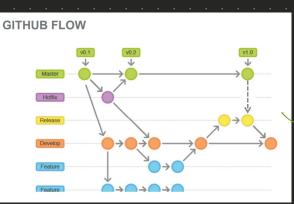
git: open source github: owned By Microsoft

C = Venesion Control Syst. for Code Proj.

githuli fleris

Usen Interface with additional features
to streamline both collaboration & documentation





Git

- Version Control System
- Distributed Architectur
 - · develop a project simultaneously and independently
 - · Local copy of project
 - · work offline and merge changes later
- Repository: can be local or remote
- Commits:
 - snapshot of the project at a specific point in time
 - store changes made to files and include a unique identifier
- Branching and Merging
 - Flexible way to organize work
 - \bullet Naming conventions for branches: main, feature, hotfix, bugfix, .
 - Different strategies: Git Flow vs GitHub Flow
- Pull and Push:
- Retrieve changes from a remote repository (pull)
- Upload local changes to a remote repository (push)

mader is always Luictional

constant flux

D Name 3 Benefits of a version control system

F1 Collaboration: local capy of the repo - merge back to a learner bound + baving #2 Control over changes, potential

conflicts & added code , not forgetting to mention #3 multiple branches

launchable for a smooth CITCD work flowleg when managed with gitkraken)

> Name 3 afternatives to git 8VN, Penfonce, Forest Bitbucket La like Github) - atlanion P Name 2 differences blus qui and other version Control systems git: distributed version control system - cline has its own local database of the source Use via command line or integrated into a large number of IDE18, git is leveraged by a number of applications Le.g. Cithub. Britbruket) - therefore widely used Lacross industries & companies) and also well documented D Name known issues related to game Engines (Unreal Unity) and Version control systems # as git clanes entire dutabares (eg. on the download of a repa) => overwhelming for langues projects Render API aleteachin runs/orates the graphics Cobjects

Enlity Courposed System

ECS Undate eg Graythis Custom Asext System in Roal Time

Hot Swapalle Assets

P DESCRIBE A LOGGING SYSTEM IN YOUR OWN WORDS

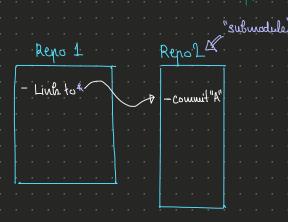
provides pretruit callable functions to be used across the program for the purpose of

- P extractive I matrixe avaitable program "internal" infos in nature community
 trace, waren, into person, fatal....
 - with presetted formatting
 - where variable and auguments can be pained through (runtime data)

Serves the developens of the code eg. for debugging and maintenance but also user how reference mula use of that code (included us libraries for example).

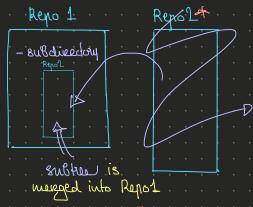
D WHAT IS THE DIFFERENCE BETWEEN BIT SUBMODELS AND GIT SUBTREES ?

Both are methods to include one repository inside another . . though they are managed differently and feature a different winterfew



init, update & charges (e.g. of the submodul the Report points to) all need to be performed manually - independent versioning

=0 allows for more control through manually performed communds. Thus higher flexititing



- embeddad listory for Rapo I in Rapo 1

*= not a septrate sepa anymore

no seperate updating

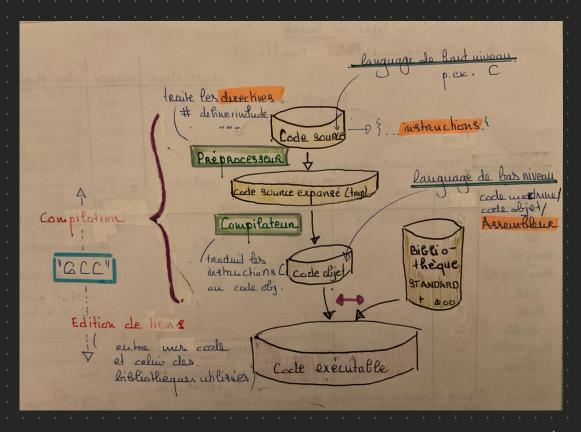
= allows for less namual nangation/speration, a simplified transling of dependencies, easier meintenance (supposedly)

WHAT IS A BUILT SYSTEM IN C++2

ex. Male. C.Make, Promahe

suys " how individual building blocks are going to be assembled to form the auntication" while

- recliganizio L'sontigo out sources & their dependencies



Luy own notes

WHAT IS A PACKAGE MANAGER IN C++?

venteg (Microsoft) xappo (OSS) Conan LJFrag) apt

- hundles dependencies of a project for precompiled, preexisting someces used by the program project
- handles donnloads from reportaires and vension (in) compatitities/conflick