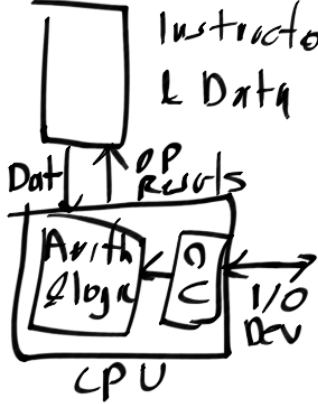# -Characteristics

Simplicity, Orthogonality, Data types, Syntax Design, Abstraction Supp
Expressivity, Type checking, Exception, Restricted Aliasing.

-Von Neumann Arch

Instructions
L Data

Data | OP Results

Arith & logic | CU | I/O Dev

CPU

-Lang Cat

Imperative,
functional,
logic & OO

-Storage Binding

Static, Stack
heap (imp &
Explicit)

-Preprocessor

Pre-compiler

Lexemes   tokens

Index   identifier
$=$ equal sign
2   Int literal

Explicit is during RunTime
Implicit uses allocation
& Deallocation
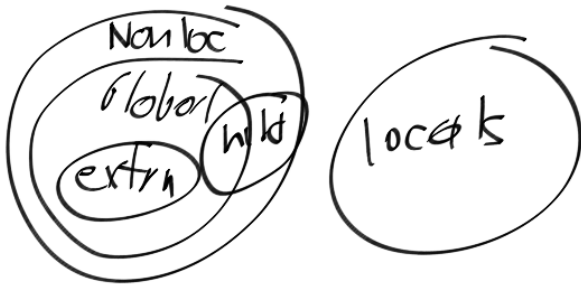
-Type Binding

Type of var
is dynamic
or static

-Scope

Static & Dynamic
Global, nonlocal, hidden, external & local

Non loc
Global
extern
hid

locals

- PHP

Output in Html, Interpreter, Support OO

-Ruby   -Perl

Pure OO, $ @ %, Inter

-JavaScript

web processing
dynamic Html

-Python

Dynamic Array
List, OO.