programs/code — not just for machines
*Learning environment (tictactoe machines - reward + punishments)
+ Dr Scheme, etc
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Midterm, -7 during class
Structure: How we use a computer language to expres complicated
"computational thoughts"—using engineering principles to decomp
· ose large systems into understandable smanage able parts
Interpretation: (su slide)
Scheme - really simple walmost no syntax, & not much else (Scheme's programming idion
Compiler = = more like the translator; the interpreter is the "doer."
(what scheme is supposed to me an in <u>Scheme</u> . Compiling Scheme into Scheme/itself
L>(i.e. motacircular evaluation)
(what's the model of computation for the longuage)

Syntax vs. Semantics

Syntax: Say something that's meaningful.
Somantics: say what you meant: (Say I just want togoto sleep", not "take a sailor toked",
(* NB: The read-eval-print 100p) Stret COOKie whyn you Su
*Think a/b evilving processes, not the "cash register" model.
* Primitive Expressions _ atomic building blocks" * Weans of combinations
*Means of combinations
*Means of abstraction - Allow compound objects to be named
Allow compound objects to be named and manipulated almost as if theywere primitives.
Simplest binary trus) = a lcaf. 2 trees together mut @ a node.
Complicated things are inductively defined.
Computational processes evolve from the interaction of programs (rules)
and data (objects to be manipulated).
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