COMP302: Programming Languages and Paradigms

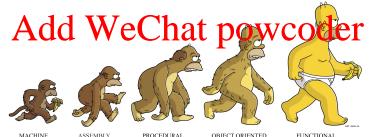
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Week 6-1, Fall 2017



Functional Tidbit: Imperative vs Functional Programming!



Warm-Up: Computation and Effects

So far:

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• An expression has a type

https://pewtoderacom

(or diverges).

Add WeChat powcoder

Today:

Expressions in OCaml may also have an effect.

Given the following expression write down its type, its value (i.e. what the expression evaluates to), and its effect, if it has any.

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• 55

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- · fun h-> x + 3 * 2//powcoder.com3.2 *. 2.0)

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- let x = ref 3 in x := !x + 2

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- · fun h-> x + 3 * 2//powcoder.com_{3.2 *. 2.0)}
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- : fun Add 3; WeChat powcoder
- $fun x \rightarrow (x := 3; !x)$

Today: Programming with State

Mutable Data-Structures

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