



080

Recursive Definitions

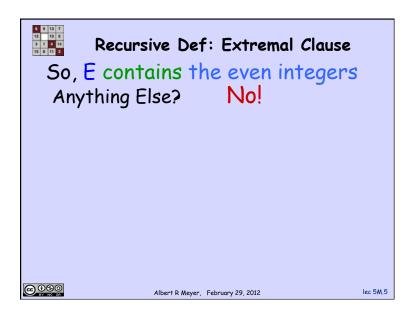
Define something in terms of a simpler version of the same thing: Base case(s) that don't depend on anything else.

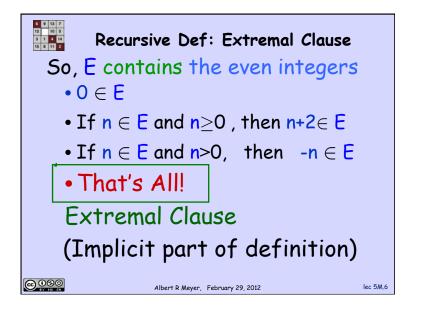
Constructor case(s) that depend on simpler cases.

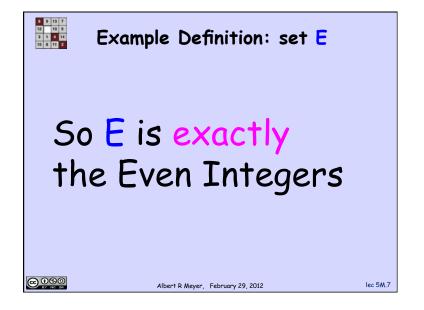
Albert R Meyer, February 29, 2012

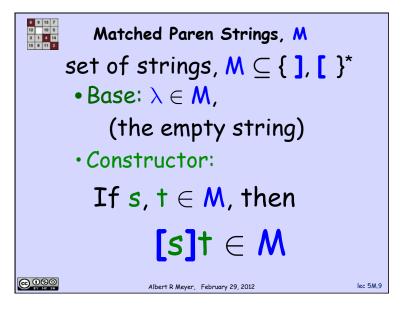
lec 5M.2

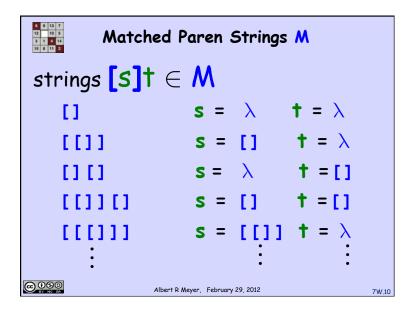
Example Definition: set E 1. $n \in E$ and $n \ge 0$, then $n + 2 \in E$: 0, 0+2, (0+2)+2, ((0+2)+2)+2 0, 2, 4, 6, ... 2. $n \in E$ and n > 0, then $-n \in E$ -2, -4, -6, ... all even numbers

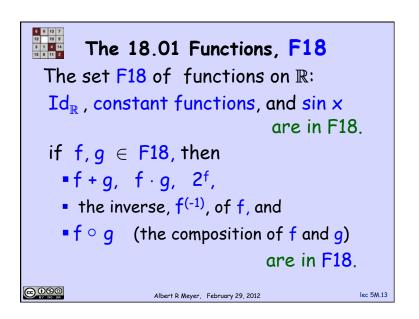


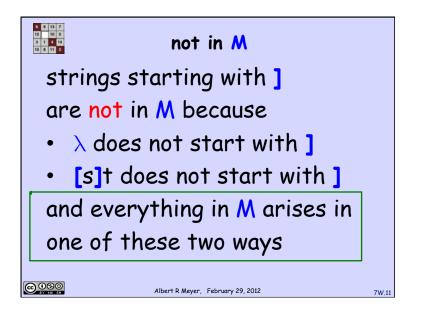


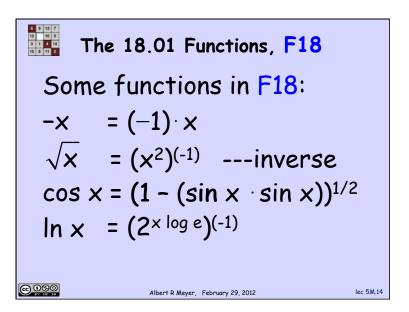












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