

Let bindings

- Motivation: Functions without local variables can be poor style and/or really inefficient.
- Syntax: **let b1 b2 ... bn in e end** where each b_i is a *binding*.
- Typing rules: Type-check each b_i and e in context including previous bindings. Type of whole expression is type of e .
- Evaluation rules: Evaluate each b_i and e in environment including previous bindings. Value of whole expression is result of evaluating e .
- Elegant design worth repeating:
 - Let-expressions can appear anywhere an expression can.
 - Let-expressions can have any kind of binding.
 - Local functions can refer to any bindings in scope.
 - Better style than passing around unchanging arguments.