

# Mini F#

- $p \text{ (pat)} ::= c \mid id \mid \_ \mid (p, p) \mid [] \mid p :: p$
- $e \text{ (exp)} ::= c : b \mid id \mid \mathbf{fun} \ p \rightarrow e \mid e \ e$   
 $\mid (e, e) \mid \mathbf{let} \ p = e \mid \mathbf{let} \ p = e \ \mathbf{in} \ e$
- $\mid \mathbf{let} \ \mathbf{rec} \ id \ x_1 \ \dots \ x_n = e \ \mathbf{in} \ e$   
 $\mid e :: e \mid []$   
 $\mid \mathbf{match} \ e \ \mathbf{with} \ p_1 \rightarrow e_1 \mid \dots \mid p_n \rightarrow e_n$
- $t \text{ (types)} ::= b \mid \alpha \mid t \rightarrow t \mid \alpha \ \mathbf{list} \mid t * t \mid$   
 $\mathbf{unit}$
- $b \text{ (base ty)} ::= \mathbf{int} \mid \mathbf{float} \mid \mathbf{string} \mid \mathbf{bool} \ \dots$