

UE: choose x_1 that minimizes the surrogate model of $f(x)$

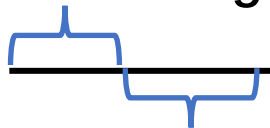
Epoch 1:



Epoch Length: 1

LE: choose x_2 that minimizes the surrogate model of $f(x) + c(x, v_2)$

Epoch 2: $v_2 = \operatorname{argmin}_{x_t} \{f(x_t) + \varepsilon_t | t = 1\}$



Epoch Length: 2

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UE: choose x_3 that minimizes the surrogate model of $f(x)$

Epoch m :

$v_m = \operatorname{argmin}_{x_t} \{f(x_t) + \varepsilon_t | t = 1, \dots, \frac{m(m-1)}{2}\}$



Epoch Length: m

LE: the first $m - 1$
iterations

UE: the last
iteration