$$line : \frac{1}{2}d(x_{k+1}, \mathcal{X}^*_{f_{k+1}})^2 \leq \frac{(1-\alpha)}{}$$

[RGB]0,0,75$\mu_f)^k \mu_f \left(\frac{L_f}{2} d(x_0, \mathcal{X}^*_{f_0})^2 - \eta^* - \eta_0 \right)$ $+ \frac{\alpha}{2\mu_f} \sum_{t=0}^{k} (1-\alpha\mu_f)^{k-t} \|\varepsilon_t\|^2 +$ norm$_s tr :$