

global      local

$$\rightarrow \underbrace{S}_{\text{global}} = \underbrace{S}_{\text{local}} + \underbrace{s(x, y)}_{\text{local}} - \underbrace{s(x, h(\theta(s)))}_{\text{local}}$$

$\uparrow$                        $\uparrow$                        $\uparrow$   
 $h$                        $h\emptyset$                        $h_i$

↓

```

h0.fit(x, y, est_step ← s(x, y))
h.fit(x, y, est_global)
error[0] = np.average(h.getClassProb(x)[: , x])
error[0] = np.average(y != h.predict(x))

```

```

for i = 1 — N
{
    hi = fit(x, h.getClassProb(x), est_step)
    h.stats.add(h0.stats)
    h.stats.subtract(hi.stats)
    h.computeParams()
    error[i] = np.average(y != h.predict(x))
}

```