开始
$$\varepsilon > 0, x = x^{(0)}, H_0 = I, k = 0$$

$$d^{(k)} = -H_k g^{(k)}$$

$$\Delta x^{(k)} = \alpha_k d^{(k)}$$

$$x^{(k+1)} = x^{(k)} + \alpha_k d^{(k)}$$

$$g^{(k+1)} = g(x^{(k+1)})$$

$$\Delta g^{(k)} = g^{(k+1)} - g^{(k)}$$

$$H_{k+1} = H_k + \frac{\Delta x^{(k)} \Delta x^{(k)T}}{\Delta x^{(k)T} \Delta g^{(k)}} - \frac{[H_k \Delta g^{(k)}][H_k \Delta g^{(k)}]^T}{\Delta g^{(k)T} H_k \Delta g^{(k)}}$$

$$\frac{\xi_T}{\xi_T}$$