

$$W_{i} = W_{i} - \eta \frac{\partial \bar{c}}{\partial w_{j}}$$

$$Chain Rule, \quad \frac{\partial \bar{c}}{\partial w_{j}} = \frac{\partial \bar{c}}{\partial g} \frac{\partial f}{\partial z_{j}} \frac{\partial z_{j}}{\partial w_{j}}$$

$$\vdots \quad W_{j} = W_{j} - \eta \frac{\partial \bar{c}}{\partial g} \frac{\partial f}{\partial z_{j}} \frac{\partial z_{j}}{\partial w_{j}}$$

$$\frac{\partial z_{j}}{\partial y} = z_{j} - \eta \frac{\partial \bar{c}}{\partial g} \frac{\partial f}{\partial z_{j}} \frac{\partial z_{j}}{\partial w_{j}}$$

$$\frac{\partial z_{j}}{\partial w_{j}} = z_{j} - \eta \frac{\partial \bar{c}}{\partial g} \frac{\partial f}{\partial z_{j}} \frac{\partial z_{j}}{\partial w_{j}}$$

$$\frac{\partial z_{j}}{\partial w_{j}} = z_{j} - \eta \frac{\partial \bar{c}}{\partial g} \frac{\partial f}{\partial z_{j}} \frac{\partial z_{j}}{\partial w_{j}} \frac{\partial z_{j}}{\partial z_{j}} \frac{\partial z_{j}}{\partial$$