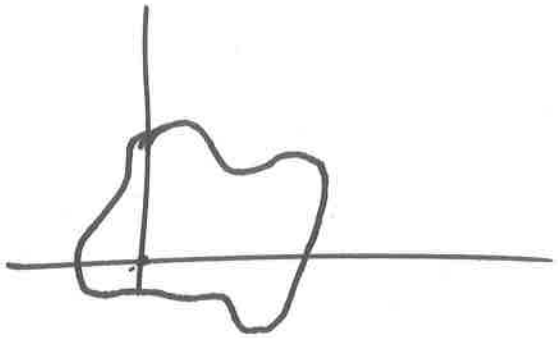
9/5/17

CSE 535

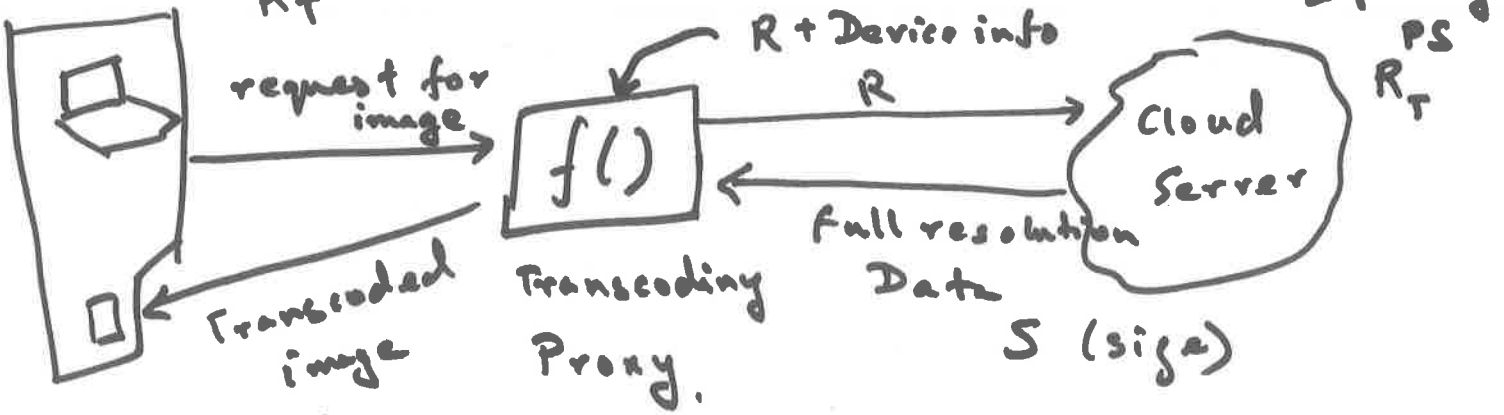


x

Adaptation

When can we adapt?

R_T = control signal transfer time between device & proxy



$s' = f(s)$

$s' << S$

PD

B_w kbps = B_w proxy & device

PS

B_w kbps.

τ_R^T = response time with transcoding

$$\tau_R^T = R_T^{PD} + R_T^{PS} + \frac{S}{B_\omega^{PS}} + \frac{f(S)}{B_\omega^{PD}} + T(f(S))$$

τ_R = response time without transcoding

$$\tau_R = R_T^{PD} + R_T^{PS} + \frac{S}{B_\omega^{PS}} + \frac{S}{B_\omega^{PD}}$$