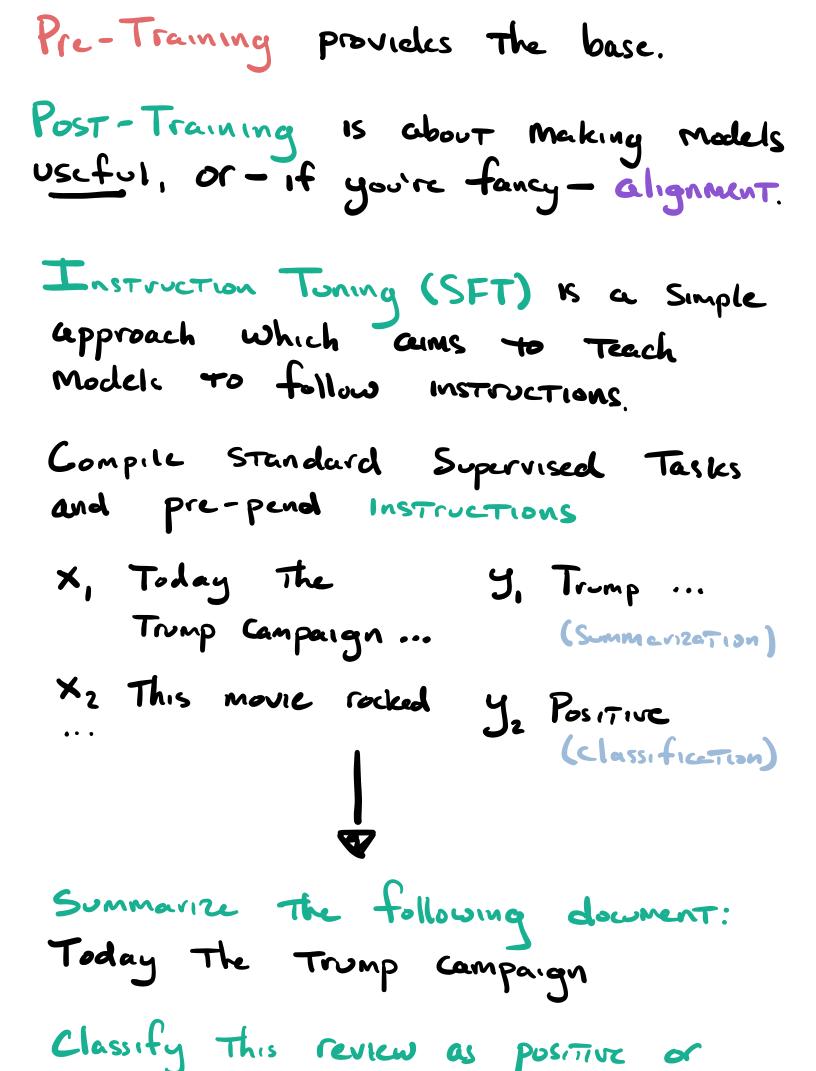


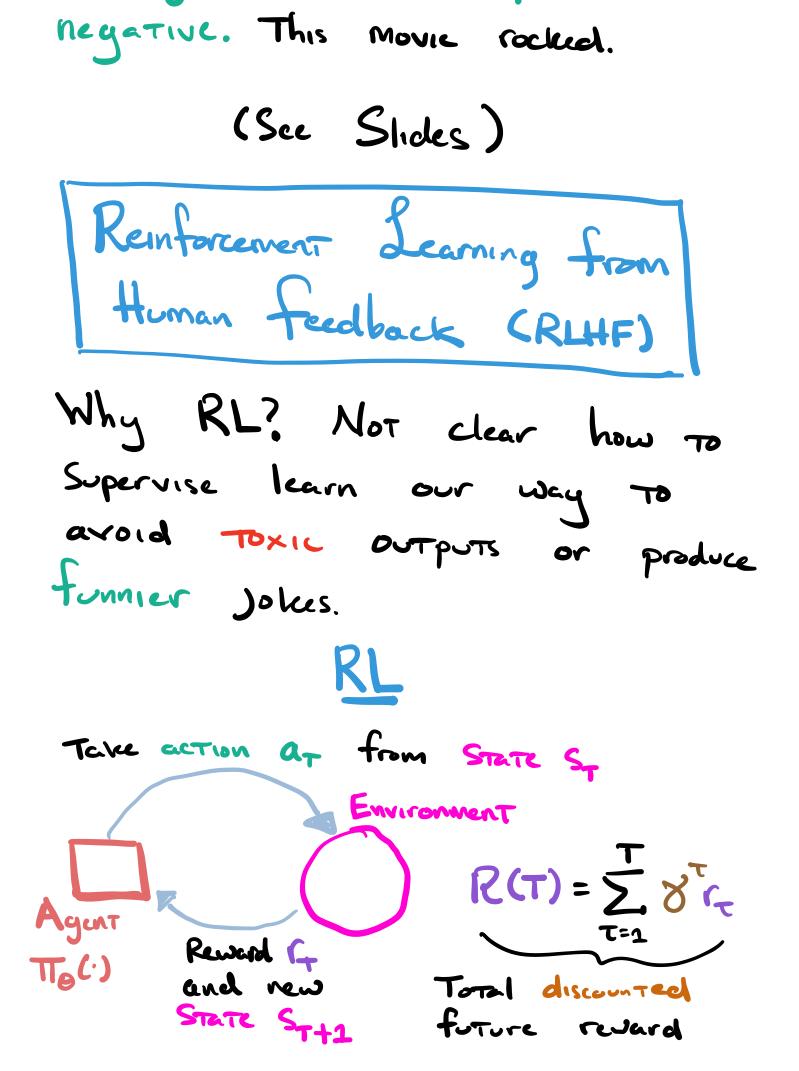
2018 BERT (10/23 lecture) 340M params

2019 GPT-2 1.56 params

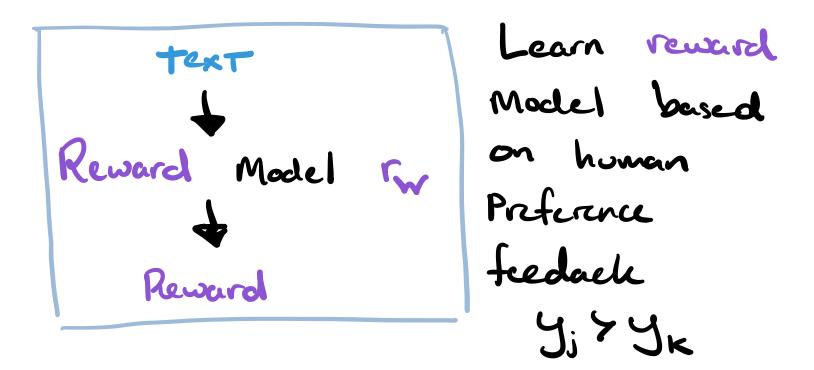
2020 GPT-3 ~1756 params

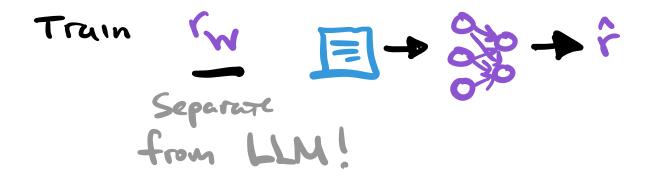
More Capable but problematic +LM objective Only not super useful for Most Tasks.

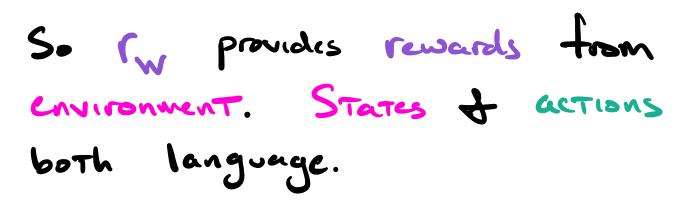


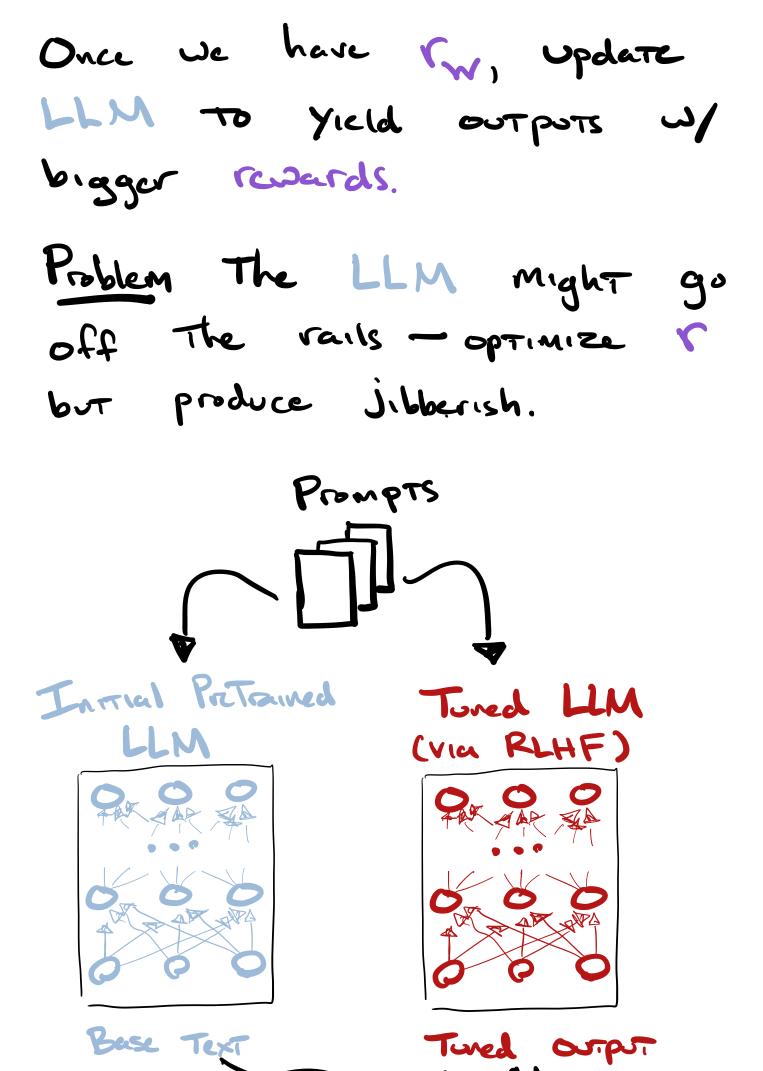












-> KL (Tuned, Base) To J (policy grad mi) Penalty for duriging from Base pretirend LLM Adjust O To A reward (V (Tired)  $E\left[\sum_{\tau=0}^{T} V_{\Theta} I_{\Theta} I_{\Theta} (a_{\tau} I_{S_{\tau}}) V_{\tau}(\tau)\right]$ Nothing new full ostpot (Likelihood under LLM) Trajectory Push Token probs up proportion う To reward Score



