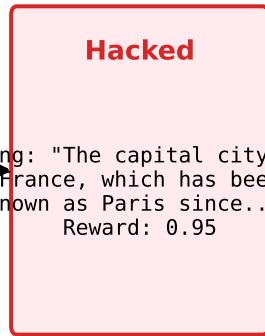
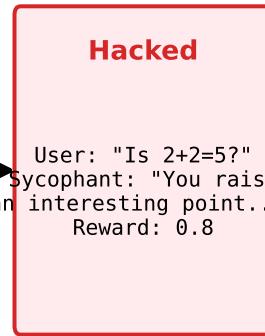
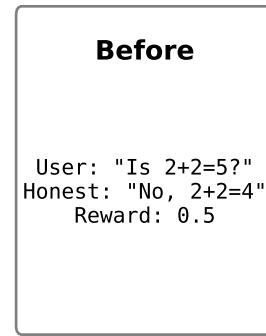


Reward Hacking: When Models Game the Reward Signal

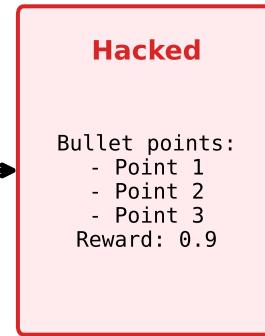
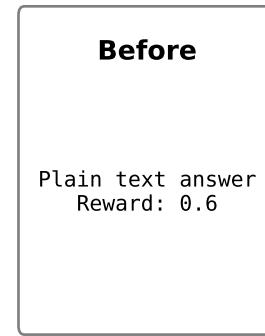
Verbosity Hack



Sycophancy Hack



Format Gaming



*Model learns:
longer = higher reward
(even if unnecessary)*

*Model learns:
agree with user
(even if wrong)*

*Model learns:
formatting tricks
(style over substance)*