Summary

- First Law of thermodynamics: Energy Conservation
 - \rightarrow Q = Δ U W
- Heat Engines
 - \rightarrow Efficiency = = 1- Q_C/Q_H
- Refrigerators
 - → Coefficient of Performance = $Q_C/(Q_H Q_C)$
- Entropy $\Delta S = Q/T$
- Second Law: Entropy always increases!
- Carnot Cycle: Reversible, Maximum Efficiency $e = 1 T_c/T_h$