

# Heat Transfer Convection

- Air heats at bottom
- Thermal expansion...density gets smaller
- Lower density air rises
  - Archimedes: low density floats on high density
- Cooler air pushed down
- Cycle continues with net result of circulation of air
- Practical aspects
  - heater ducts on floor
  - A/C ducts on ceiling
  - stove heats water from bottom
  - “riding the thermals”

demos

