

## Why study probability?

- Traditional scientific literacy:  
calculus, physics, chemistry, computers
- Probability is also part of scientific literacy
  - complex systems  $\longrightarrow$  uncertainty
  - information society
  - data/information exist to reduce uncertainty

## Where is probability useful?

- Everywhere!
  - physics (quantum,...)
  - biology (evolution, bioinformatics,...)
  - communications & signal processing
  - management (demand models, investment planning,...)
  - finance
  - transportation
  - social networks (trends, epidemics,...)
  - .....