

DIS 4C

Wednesday, July 11, 2018

12:00 PM

Topic: Intro to Probability

- **Sample space**: the set of all possible outcomes ω
↑ think of it as the direct observations from your experiment
e.g. $\{HH, HT, TT, TH\}$
- **event**: a subset of sample space
↑ think of it as a way to group outcomes
e.g. "flip coin twice and exactly one heads" : $\{HT, TH\}$
probability of event A : $P(A) = \sum_{\omega \in A} \Pr(\omega)$
uniform sample space, then $P(A) = \frac{|A|}{|\Omega|}$