

## Averages

At the University of California in Berkley, women are less likely than men to be admitted to graduate school. Yet for every graduate department, women are more likely than men to be admitted.

How can this be? Women are more likely to apply to highly selective departments. For example:

	applicants	number accepted	acceptance probability
<b>Physics</b>			
women	50	40	80%
men	50	30	60%
<b>Business</b>			
women	400	100	25%
men	100	20	20%
<b>University</b>			
women	450	140	31%
men	150	50	33%

In general, the average over departments is not the same as the average over applicants! (This phenomena is called “Simpson’s paradox”.)