Physics 341 - Lecture 19

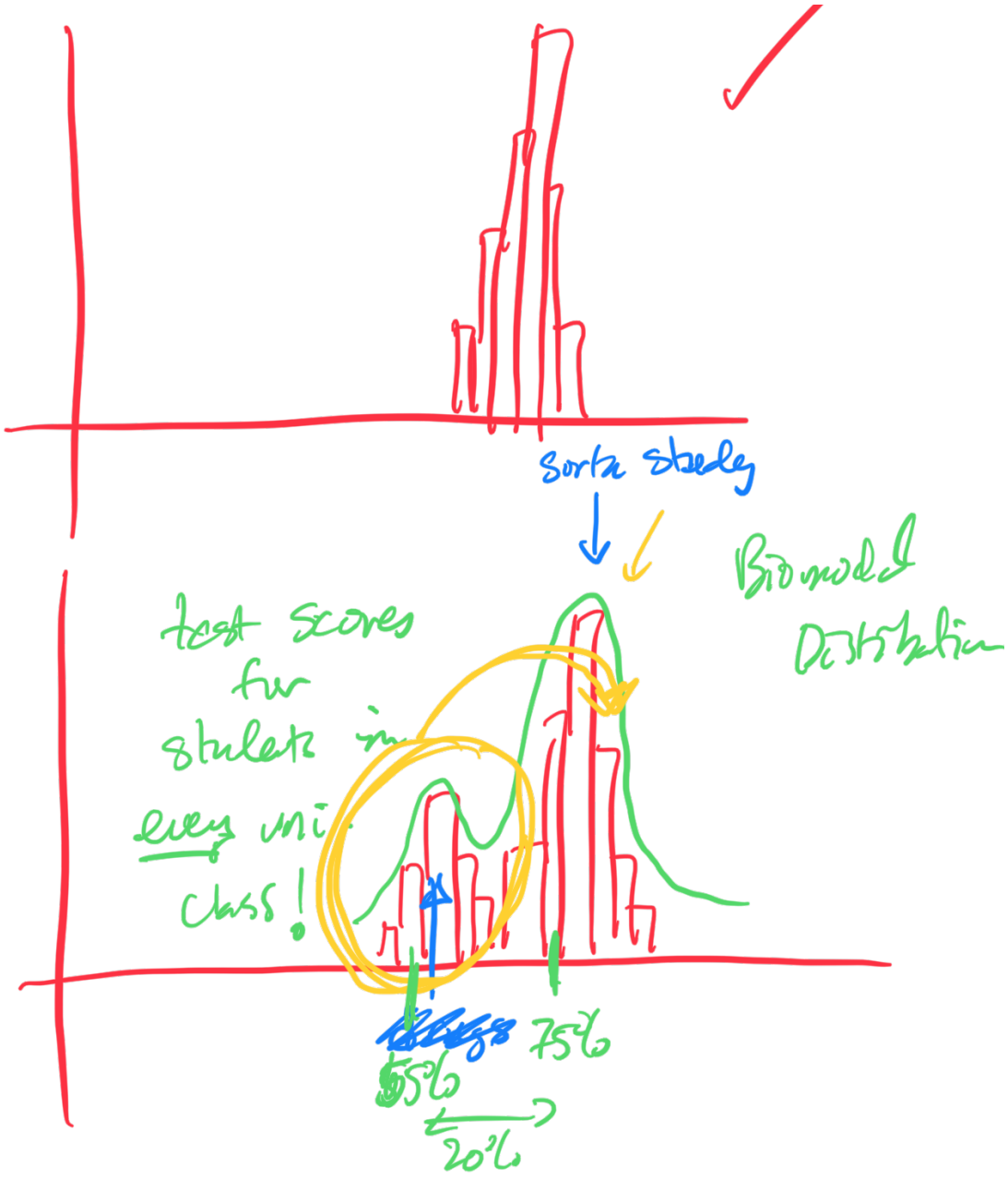
1. normality tests
2. Assignment 4 - Last Question
3. ANOVA Huge Topic!

"Check assumptions"

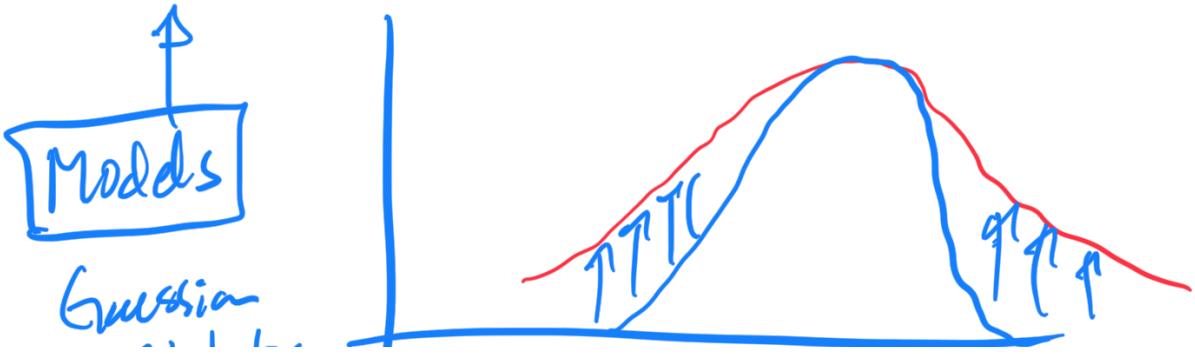
$\boxed{z, t, \chi^2, F}$ ← Gaussian Dist

↳ data is normally distributed.

Gaussian with a centroid of ϕ and a sigma of 1.



Stock Market Prices.



Statistics

Bradley Effect

→ "lie"

Truman vs. Dewey

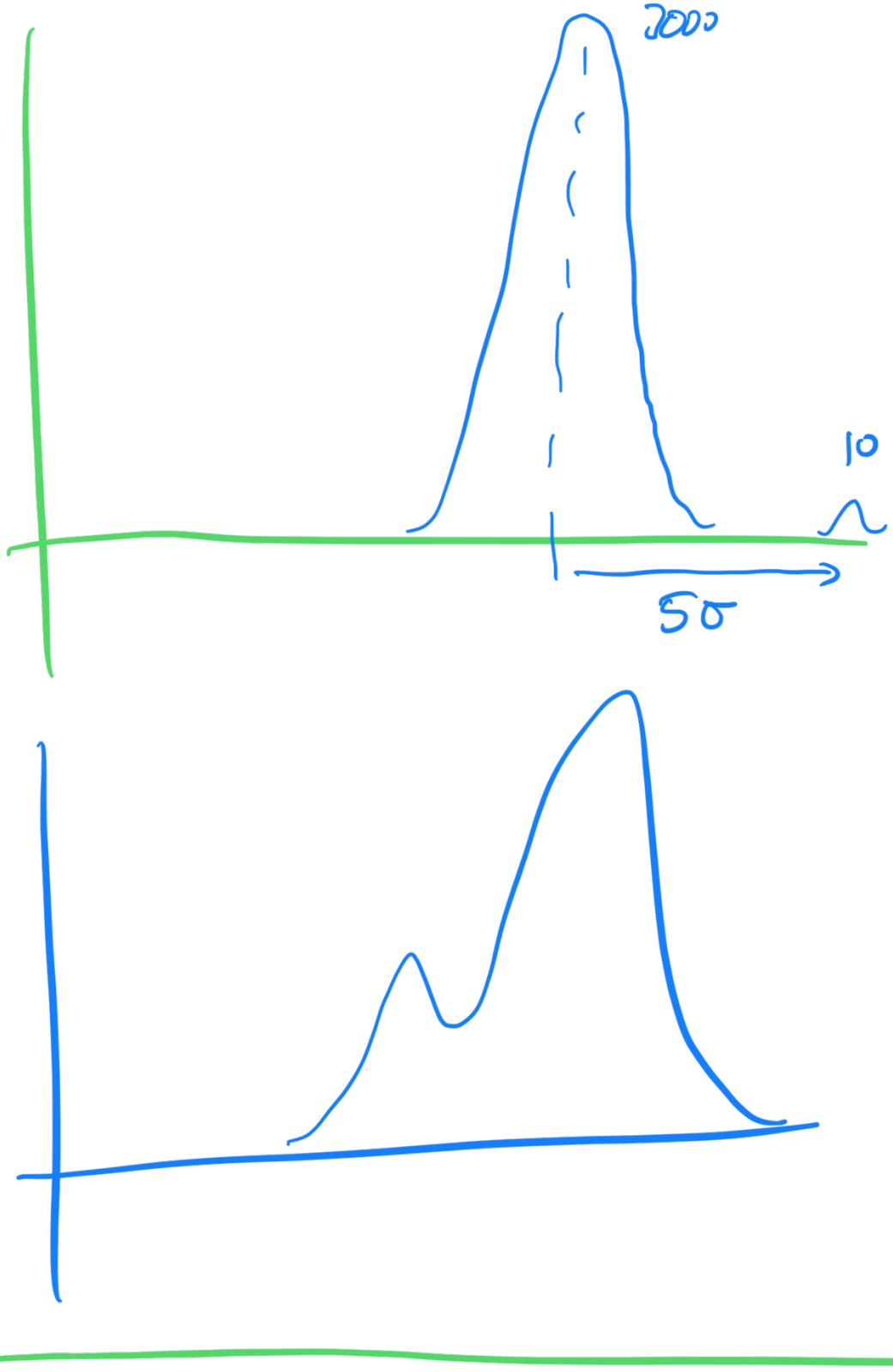
— Phone (sample bias)

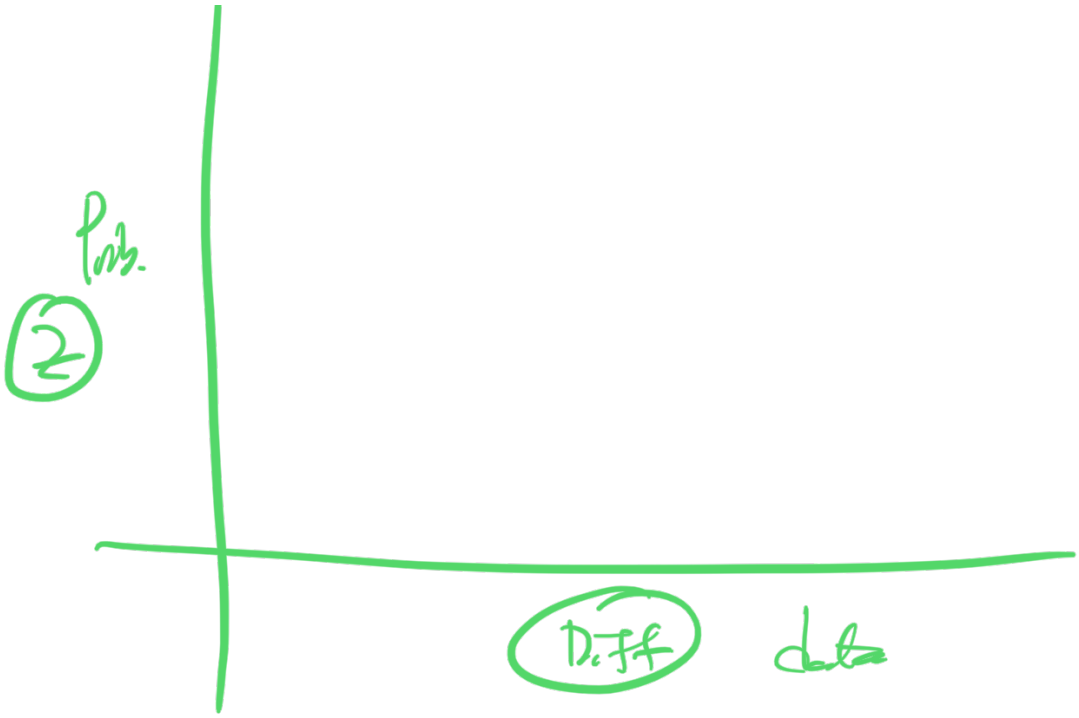
fivethirtyeight.org.

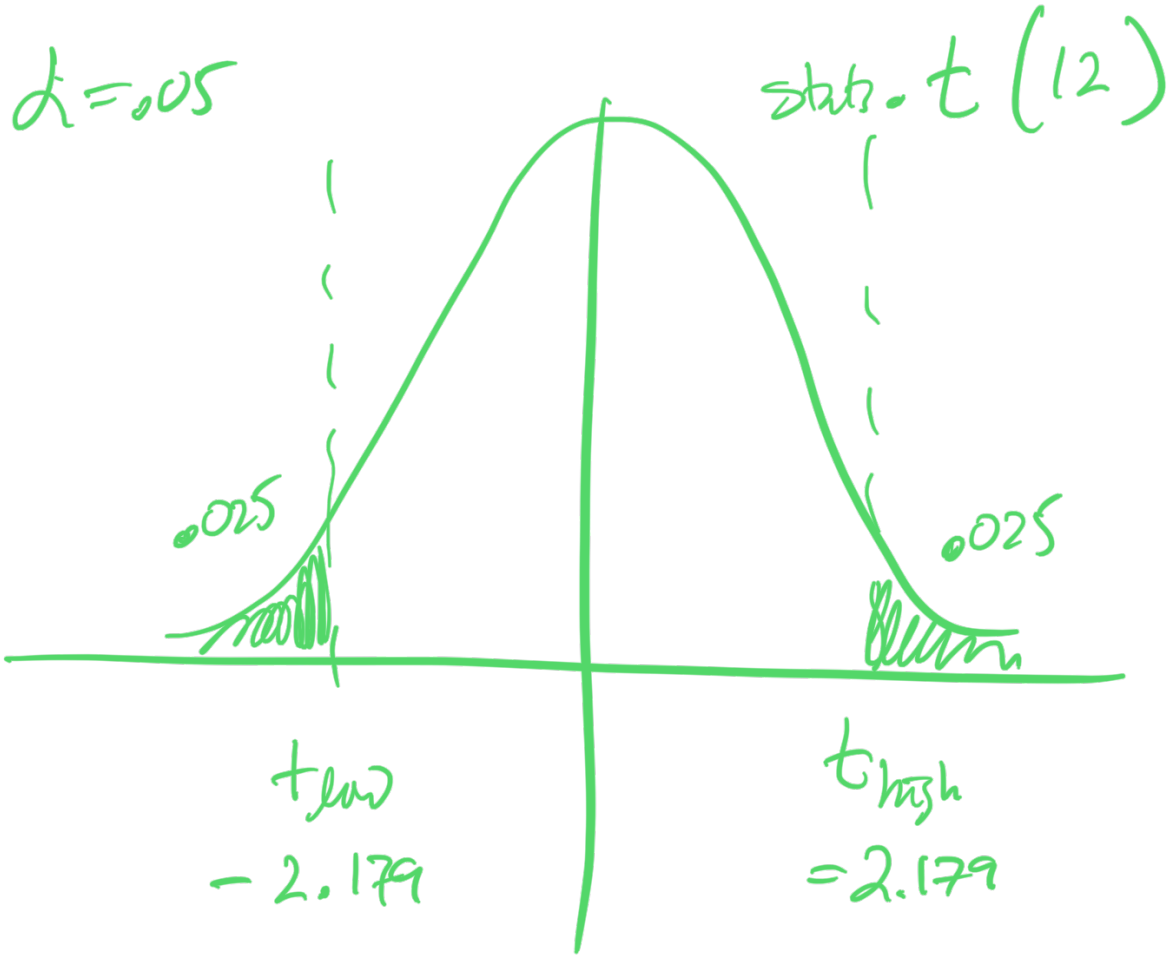
Gaussian $\mu = 100$

$\sigma = 10$

$N = 3000$


2000
10
5σ


Prob.
(2)
Diff
data


α = .05
stats. t (12)
.025
.025
t low
- 2.179
t high
= 2.179

$$t \equiv \frac{\bar{x}_D \pm \mu}{s_D/\sqrt{N}}$$

$$\mu = \bar{x}_D \pm t \cdot \frac{s_D}{\sqrt{N}}$$

$\bar{d}$ 2.179