MD: moderndire Loc 37: 2019/4/26 Sty Open come nebrouse to Lee 37 so

to students can see Table 8.6 + Fig 6.4 +

Table 6.2 in MD Table 8.6

Recape Of sampling scannos, we've covered

Dp bowl of balls 3 pi-pa resurés stapis @ Bank Today: (546). Regnessim interest & styre. Read over Fig 6.4, describe varbelly relation-I ship between teaching score 8 "beauty" Store.

Then tell them "You've previously seen the cornesponding regression table Recall estinte down gives you equation of regression line in MD Fig 6.4 General ŷ = b + b, x Here siène = b + b by ang * bty avg Score = 3,880 + 0.067 ~ bty ang Dre relationship

Q: What about other columns?
A: Relates to sampling / statistical inference. Recall Sampling framework/terminalsy from MD 8.3 instructors (study) Population: Who do no view these n= 463 as a sample of? All UT instructors, not just Austin? All UT Astin instruction in 2019? Who do me ment to generalize ar study to? Oran-ended questions. Prolitin parareter Bo= per interest
Bi= 11 slope where y= Bot B, x unknown, like 10 & M. Sample: Sample of n= 463 instructors Point estimate/sample statistic:

Fitted intercept bo= 3.880 to estimates Bo

11 slope b_= 0.067 - 11 B1 The same way "sample proportion" is estimates v.

3/5 ok folks? What is the precise mare of

the statistical quantity term that

quantifies variation in point estimates de

to sampling variation? 3rd & Colomnin toble 6.2: std-error. Starland error. Just like to did in Lab 08 where you vintrally simulated sampling run Important As m goes up, SE good down! 4th ma column statistic

This is the "test statistic" used in hypothesis testing in regression. Ex: Diff in pronotion rates AC bank rum

Pro-Pr

Lec 32

more next week. 5th Colmo p-value
top on of the Following HT H.: B,=0 y H: B, ±0 Ho: Bo=0 13 H1: B.≠0 no is interest is slype 0 - nt? O or not