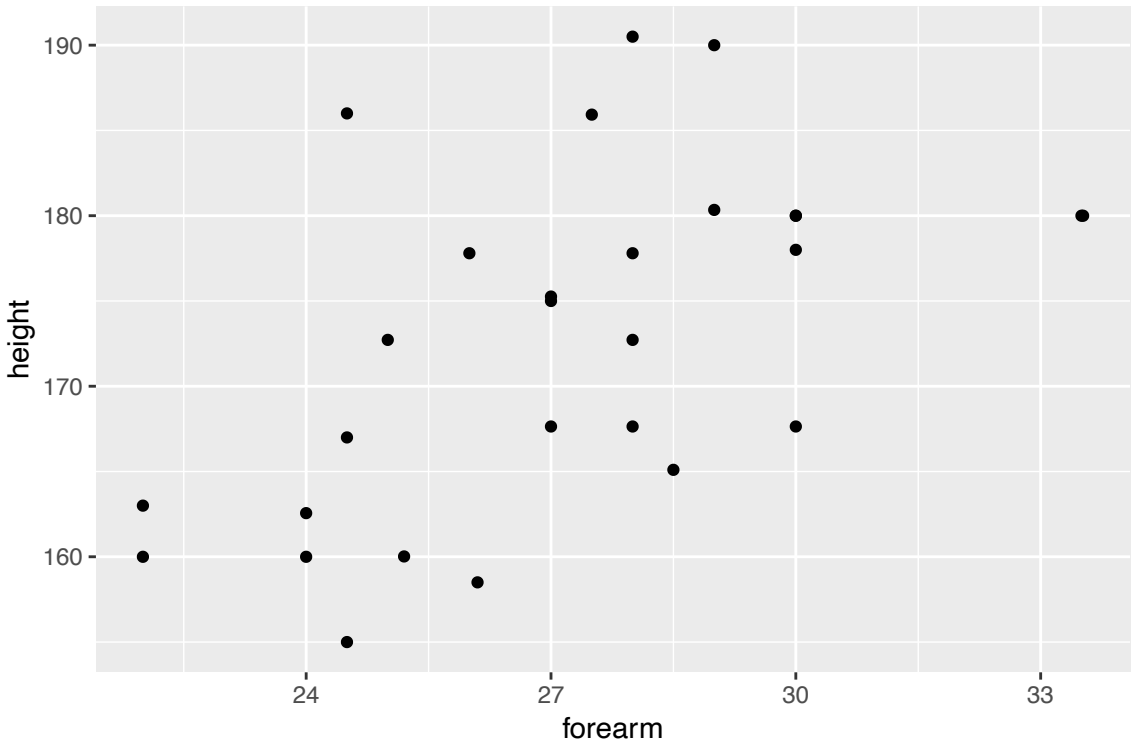
Facts

- The regression line goes through the point of averages.
- For every one SD increase in X, Y goes up *r* SDs, on average.



For the data below:

- The average forearm span is 27 cm. The SD is 3 cm.
- The average height is 173 cm. The SD is 10 cm.
- The correlation between the two is 0.56.

*note: we don't have a way to get the give-or-take numbers for Questions C–G. That will be ch. 11 of FPP, which we'll talk about after the exam.

Some things we might say:

A. The heights are about _____ cm, give or take _____ cm or so.

B. The forearm spans are about _____ cm, give or take _____ cm or so.

C. For someone with a forearm span 0.5 SDs below average, their height is about _____ SDs [above/below] average.

D. *For someone with a forearm span of **30** cm*, their height is about _____ cm, give or take _____ cm or so.

E. *For someone with a forearm span of **31.5** cm*, their height is about _____ cm, give or take _____ cm or so.

F. *For someone with a forearm span of **25.5** cm*, their height is about _____ cm, give or take _____ cm or so.

G. *For someone with a forearm span of **27** cm*, their height is about _____ cm, give or take _____ cm or so. (Compare to Statement A.)

H. For someone with a forearm span at the 31st percentile, their height is at about the _____ percentile.