Handout 14: Interpret the slope and intercept of regression model with categorical predictors

round(summary(lm(wages~race+education+I(age-25), data=earnings))\$coef,2)

##		Estimate	Std.	Error	t value	Pr(> t)
##	(Intercept)	12.06		0.16	74.41	0.00
##	raceBlack	-3.82		0.13	-30.32	0.00
##	raceLatino	-1.92		0.11	-17.24	0.00
##	raceAsian	0.68		0.16	4.23	0.00
##	raceIndigenous	-1.41		0.33	-4.32	0.00
##	raceOther/Multiple	-0.62		0.31	-2.02	0.04
##	educationHS Diploma	3.97		0.16	25.29	0.00
##	educationAA Degree	6.54		0.18	35.51	0.00
##	educationBachelors Degree	15.45		0.17	92.42	0.00
##	educationGraduate Degree	22.23		0.18	122.61	0.00
##	I(age - 25)	0.23		0.00	79.09	0.00

Interpret the slope on Black in a single sentence:

The model predicts that, on average, a black worker makes \$3.82/hour less than a white worker, holding constant education and age.

The model predicts that when comparing workers of the same education and age, a black worker will make \$3.82/hour less than a white worker on average.

Interpret the slope on BA degree in a single sentence:

The model predicts that, on average, a worker with a Bachelor's degree makes \$15.45/hour more than a worker with no high school diploma, holding constant race and age.

Interpret the intercept in a single sentence:

The model predicts that a 25-year old white person with no high school diploma will make \$12.06/hour, on average.

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