



left slewness or clustering around Histogram of EDUC 5 0 100 150 200 10 WAGE EDUC > summary(data\$wage) Min. 1st Qu. Median Mean 3rd Qu. 13.00 19.30 23.64 29.80 > summary(data\$educ) Min. 1st Qu. Median Mean 3rd Qu. Max. 0.0 12.0 14.0 14.2 16.0 21.0 46) Residuals: Min 1Q Median 3Q 5.708 193.152 -31.785 -3.166 -8.381 WAGE = -10.4+2.3968EDVC+0 Coefficients: Estimate Std. Error t value Pr(>|t|) (Intercept) -10.4000 1.9624 -5.3 1.38e-07 *** 0.1354 17.7 (d) (4) Residuals: Residuals vs EDUC 5.663 191.329 -27.643 -9.279 -2.957 200 Coefficients: Estimate Std. Error t value Pr(>|t|) (Intercept) -8.2849 2.6738 -3.099 0.00203 2.3785 0.1881 12.648 150 Temoles Min 1Q Median -30.837 -6.971 -2.811 3Q Max 5.102 49.502 100 Residuals Estimate Std. Error t value Pr(>|t|)
-16.6028 2.7837 -5.964 4.51e-09
2.6595 0.1876 14.174 < 2e-16 (Intercept) -16.6028 educ 2.6595 50 Min 1Q Median 3Q Max -15.673 -6.719 -2.673 4.321 40.381 Coefficients: Estimate Std. Error t value Pr(>|t|)
(Intercept) -6.2541 5.5539 -1.126 0.263
educ 1.9233 0.3983 4.829 4.79e-06 0 5 10 15 Not Blacks **EDUC** Residuals: Min 10 Median -32.131 -8.539 -3.119 It shows significant heterogeneous variability and the possibility of nonlinear relationship. Coefficients: 教育回报最高: Femoles (但起新俊) =) violating to SRI, SRS 教育自根最低: Blacks, P. 也最低> 司琴歷不是 Blacks 粉酱 Wage If it doesn't volate, it should be random 的主要原因 distribution.

le) Coefficients: Estimate Std. Error t value Pr(>|t|) (Intercept) 4.916477 1.091864 4.503 7.36e-06 *** ENC increase => ME increase Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' '1 quadratic regression is more emphasize Residual standard error: 13.45 on 1198 degrees of freedom Multiple R-squared: 0.2194, Adjusted R-squared: 0.2187 F-statistic: 336.6 on 1 and 1198 DF, p-value: < 2.2e-16 the effect on wage from the increasing > educ12 = 12in education. > educ16 = 16> me_edcu12 = 2*coef(quad_modle)[2]*educ12 > me_educ16 = 2*coef(quad_modle)[2]*educ16 > me edcu12 educ2 2.139216 > me_educ16 educ2 Wage = 4.961417 + 0.089134 EDVC + e The ME is botter when EDUC = 16 2× 0.089/34 × 12 = 2.1392/6 2 x 0. 089134 × 16 = 2.85 1288 more fit with wage for Comparison of Linear and Quadratic Fit high-education level (EDUC > 15) The quadratic line is more fit with data. => closer to the raa value when BDVC <10