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Rich Gruss
In-Class 8-3
setwd('/Users/rgruss/git/CMDA/in class/8')
load("fdata.RData")
attach(final)
model <-lm(ssc \sim som1 + som2 + som3 + som4 + som5 + som6 +
     som7 + som8 + som9 + som10 + som11 + som12 + som13 + som14 +
     age)
Residuals:
 Min
       10 Median 30 Max
-4.0846 -0.9373 -0.2395 0.8615 5.1013
Coefficients:
     Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.930604 0.501616 1.855 0.064525.
        som1
som2
        som3
        0.153274  0.046042  3.329  0.000978 ***
som4
        0.166983  0.071151  2.347  0.019566 *
som5
        0.074954 0.083424 0.898 0.369641
som6
som7
        0.100937 \quad 0.081050 \quad 1.245 \quad 0.213947
som8
        -0.009423 0.176722 -0.053 0.957510
        0.123674 \ 0.089830 \ 1.377 \ 0.169593
som9
som10
         0.250056 0.073577 3.399 0.000767 ***
         0.179763 \ 0.087164 \ 2.062 \ 0.040015 *
som11
         0.204114  0.059449  3.433  0.000678 ***
som12
         som13
         0.197416  0.054433  3.627  0.000336 ***
som14
      -0.010667 0.016660 -0.640 0.522476
age
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.533 on 307 degrees of freedom
Multiple R-squared: 0.7923,
                            Adjusted R-squared: 0.7822
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Interpretation: R-squared of .7 indicates that 70% of the variance is explained in a linear model that includes all 14 somatic markers along with age. The most important explanatory variables for the ssc scores are som13, som3, and som2, each of which is positively related to ssc score.

F-statistic: 78.08 on 15 and 307 DF, p-value: < 2.2e-16