

## 8.3: Summary

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Whoa! Think of what you've accomplished here: You learned enough calculus to find a minima for an equation with two variables, then applied that to the equation for the  $\sum \epsilon^2$ . You derived the error minimizing values for  $\hat{\alpha}$  and  $\hat{\beta}$ , then used those formulae in R to calculate by hand the OLS regression for a small dataset.

Congratulate yourself – you deserve it!

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