

STA108Project_Gabe&ELLIESUFFER

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```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
##
##   select

## Warning: package 'leaps' was built under R version 4.3.2
```

Single Linear Regression Models

Create a single linear regression model for Life Expectancy \sim X. Generate all necessary plots for regression analysis.

Variables to change:

Note: All variables that need to be changed will have a “#” next to the line of code

- x.lab : Name of X variable. Capitalize the first letter, use full names, use space instead of “_”. (Ex. land_area -> Land Area)
- x.dat : Linear Model X variable
- Linear Model Names: Name of X variable followed by “_lm” and “_lm_summary” respectively.
- The corresponding variable name in the “#Display Values” section

Life Expectancy \sim Land Area

Table 1: Life Expectancy ~ Land Area

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	68.4102866	0.8068269	84.789303	0.0000000
Land Area	0.0000002	0.0000004	0.379057	0.7050826

```
## Saving 6.5 x 4.5 in image
## 'geom_smooth()' using formula = 'y ~ x'
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