# Modeling in R and Tidying Results linear models and broom

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### This is not a course in a regression

$$lm(y \sim x + z, data = df)$$

```
lm(y ~ x + z, data = df)
variables
in your
    data
```

lm() = Linear Regression (OLS)
glm() = Generalized Linear Model (default family =
Gaussian)

```
lm(price ~ carat, data = diamonds) |>
  summary()
```

### broom: tidy models

```
tidy()
glance()
augment()
```



## broom: tidy models tidy() = model coefficients glance() augment()



## broom: tidy models tidy() glance() = model fit augment()



### broom: tidy models

```
tidy()
glance()
```

augment() = model predictions



#### broom: tidy models

```
tidy()
```

glance()

augment()

NOT a core member of the tidyverse. Need to load with library(broom)



```
lm(price ~ carat, data = diamonds) |>
  augment()
```

### Try it yourself

Work your way through the exercises. If anything in particular is giving you trouble, we'll work through it together.

#### Resources

Tidy Models with R: a deeper dive into tidymodels. Free online. Focused on machine learning and prediction.

Causal Inference in R: Causal modeling in R. Free online.

UCLA IDRE: Useful resources on modeling in R and other languages