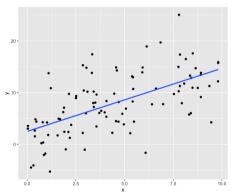
## MODELS AND INTERPRETATIONS

## 1. SIMPLE LINEAR REGRESSION $y = \beta_0 + \beta_1 \times + U$

```
lata_linear %>%
   ggplot(aes(x = x, y = y)) +
   geom_point() +
   geom_smooth(method = lm, se = F)
 geom_smooth()` using formula = 'y \sim x'
 data_linear %>%
  lm(y \sim x, data = .) \%>\%
   broom::tidy()
 A tibble: 2 × 5
         estimate std.error statistic p.value
            <dbl> <dbl>
                                   <dbl> <dbl>
1 (Intercept) > 2.49
                          0.873
                                     2.85 5.27e
                 1.22
                          0.163
```



β<sub>0</sub> = 2.49: WHEN X = 0, Y IS PREDICTED TO BE 2.49.

> B<sub>1</sub> = 1.22 : WHEN X INCREASES BY ONE UNIT, Y IS EXPECTED TO INCREASE BY 1.22 UNITS.