Test Presentation

# RMarkdown and Xaringan Package

*Rafael Serrano-Quintero*

*Department of Economics*

*University of Alicante*

# Test Xaringan

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# Introduction

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## Who I am

Rafael Serrano

r.serrano@ua.es

Postdoctoral Researcher (macroeconomics and growth)

# Empirical Evidence

# Data

- We present the *Star Wars Database* from `dplyr` package
- R chunk codes are shown as well

```
library(dplyr)

data(starwars, package = "dplyr")

summ_tab ← starwars %>%
                filter(species == "Human") %>%
                    group_by(homeworld) %>%
                        summarise(mean_height = mean(height))
```

# Data

## Tables

- We can use `datatable()` to show nicely formatted tables

```
DT::datatable(summ_tab,
  fillContainer = FALSE,
  options = list(pageLength = 3))
```

Show 3 entries Search:

| | homeworld | mean_height |
|---|---|---|
| 1 | Alderaan | 176.333333333333 |
| 2 | Bespin | 175 |
| 3 | Bestine IV | 180 |

Showing 1 to 3 of 16 entries Previous 1 2 3 4 5 6 Next

# Regressions

## Regress Height on Mass

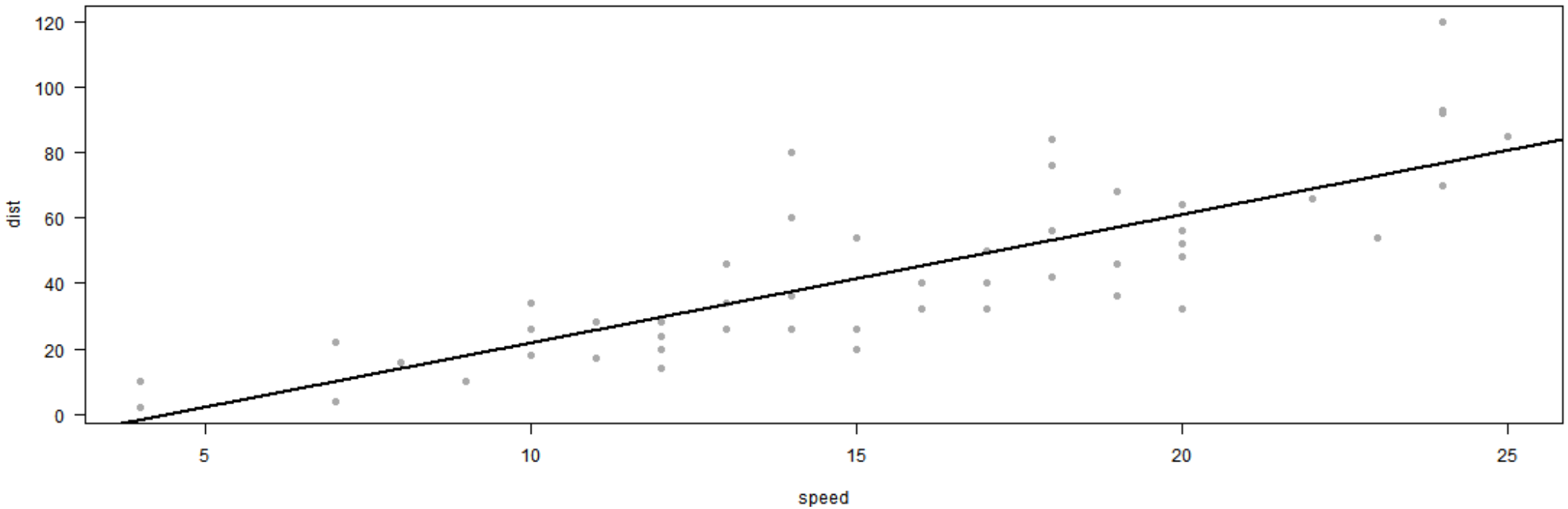
```
bodymass ← lm(height ~ 1 + mass, data = starwars)
tab_coefs ← coef(summary(bodymass))

kable(tab_coefs)
```

| | Estimate | Std. Error | t value | Pr(>\|t\|) |
|---|---|---|---|---|
| (Intercept) | 171.2853609 | 5.3434010 | 32.055495 | 0.0000000 |
| mass | 0.0280705 | 0.0275204 | 1.019986 | 0.3120447 |

# Plots

```
fit ← lm(dist ~ 1 + speed, data = cars)
par(mar = c(4, 4, 1, .1))
plot(cars, pch = 19, col = "darkgray", las = 1)
abline(fit, lwd = 2)
```



# Model

# Main Equation

## Writing Mathematical Expressions

1. In double dollar signs `$$`
2. Write in one line, not splitted
3. Test matrices as well

$$w_i L_{di} = \beta_{di} \sum_{j \in \mathcal{N}} \omega_d^{\rho} \left(T_{ji} \kappa_{di}\right)^{1-\sigma} A_{di}^{\sigma-1} P_{dj}^{\sigma-\rho} P_j^{\rho-1} \nu (w_j L_j + b_j E_j)$$

$$\begin{pmatrix} 1 & 2 & 3 \\ \sigma - 1 & \rho & \beta(1-\sigma)\rho \\ \sigma - \rho & 0 & 9 \end{pmatrix}$$

# Exporting to PDF

- Use `pagedown::chrome_print()`
- Needs a Chromium browser installed
- Produces a PDF of the slides

```
pagedown::chrome_print("test_xaringan.html")
```