

### R+RStudio Tips and Tricks

Hidden gems for improving workflow efficency

Muhammad Aswan Syahputra

2019-01-20

dplyr::glimpse(aswan)

### Muhammad Aswan Syahputra

- Founder of Sensolution ID
- Expertise in sensory science and consumer studies
- Education:
  - Master in Sensory Science, Wageningen University and Research, The Netherlands
  - Bachelor in Food Technology, Universitas Brawijaya, Indonesia
- Telegram: @aswansyahputra
- aswansyahputra@sensolution.id



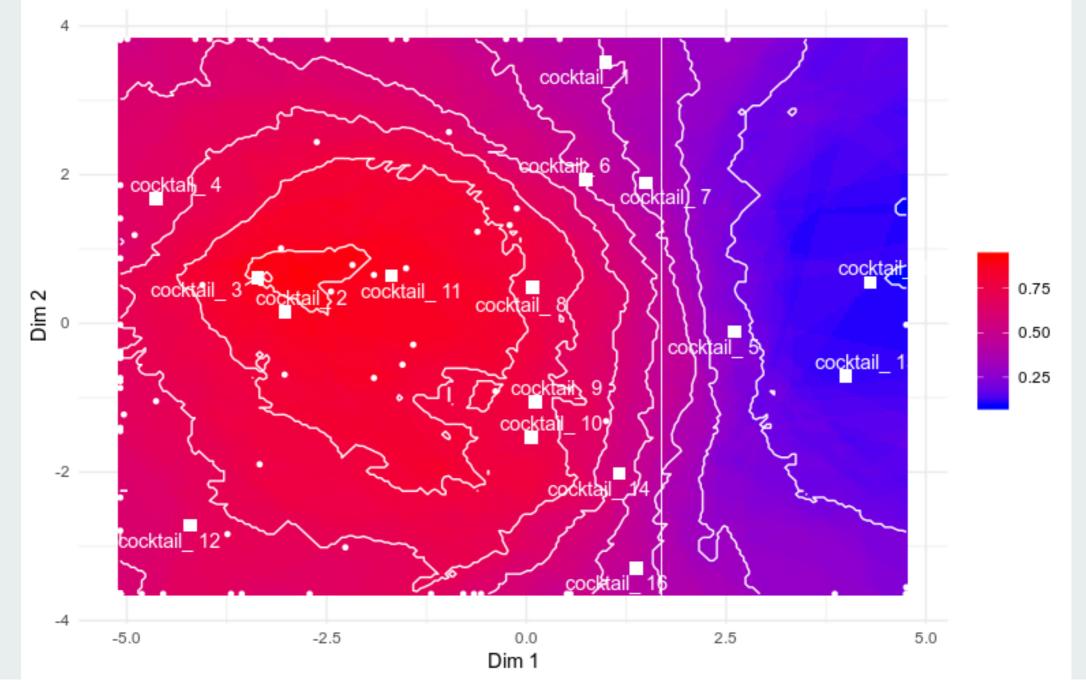
### **Sensory Science** ~ Food + Consumer Perception

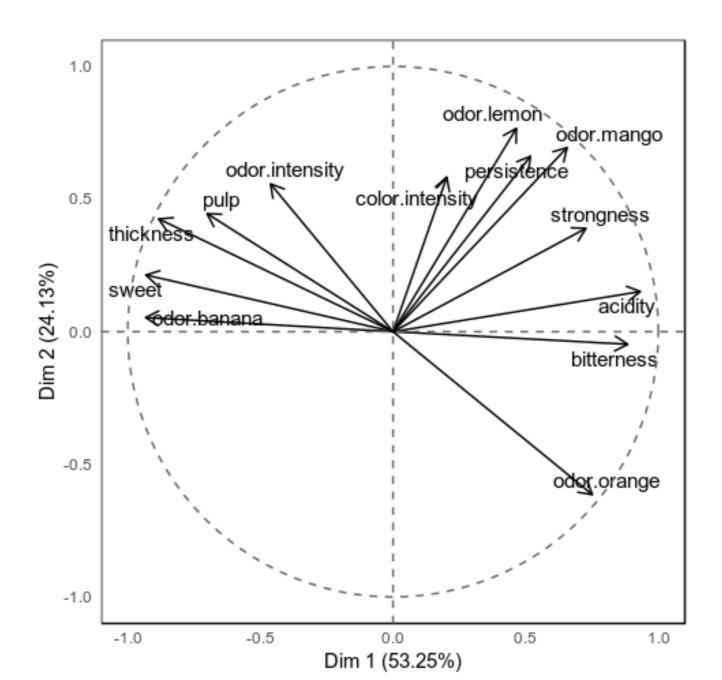
Food science and technology

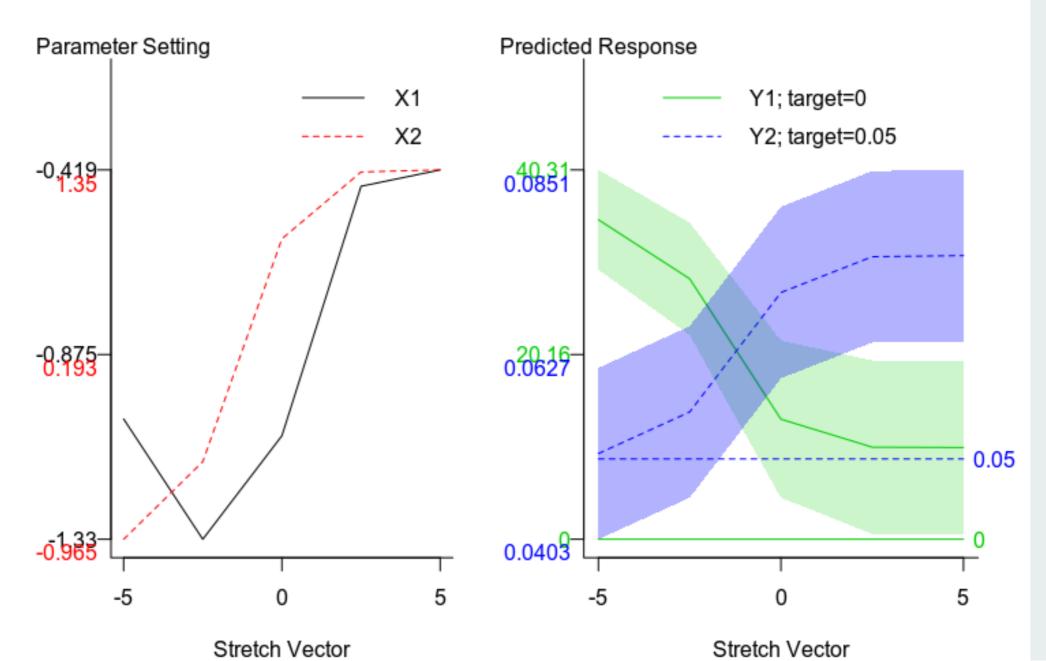
**Sensory Science** 

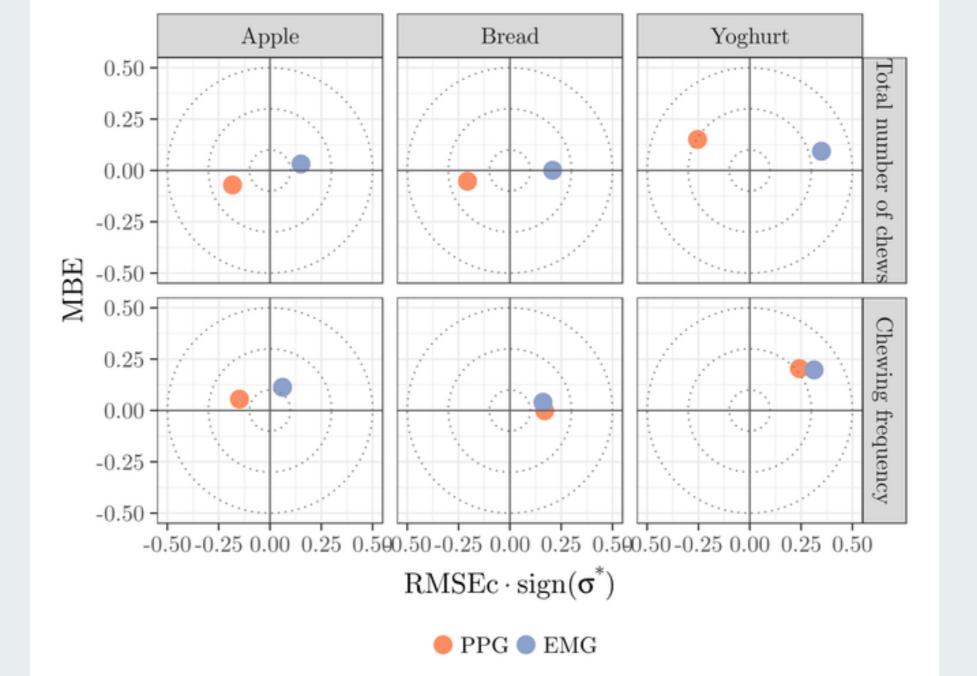
Marketing and Consumer behavior Nutrition & Health Sensory food research aims to reach a better understanding of how the senses respond to food and eating, but also how our senses can be used in quality control and product design. - WUR

dplyr::summarise(me\_with\_r)



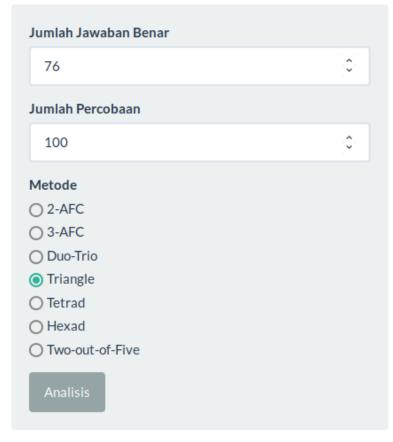






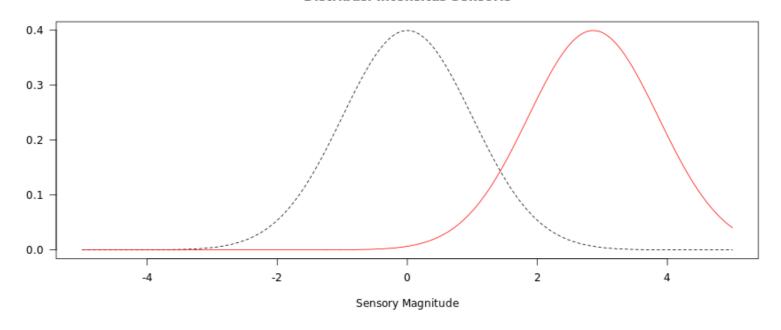
SenseHub 🥰 Rancangan Percobaan 🛤 Performa Panelis 🧕 Uji Diskriminatif 📖 Uji Deskriptif 🕶 💙 Uji Afektif 🗸 🗥 Optimasi 🗸 🗘 Ihwal 🕩 Keluar

#### Uji Diskriminasi



Estimat untuk uji Triangle dengan 76 jawaban benar dari total 100 percobaan Estimat Std. Error 95%CI bawah 95%CI atas Probabilitas Jawaban Benar (pc) 0.76 0.04 0.84 Proporsi Diskriminator (pd) 0.64 0.50 0.76 d-prime 2.86 0.27 2.31 3.43 Hasil uji diskriminasi: 'exact' binomial test: p-value = 0 Hipotesis alternatif: nilai d-prime lebih besar dari 0

#### Distribusi Intensitas Sensoris



## R tips and tricks

#### Some tips

• Learn R using R

install.packages("usethis")

```
    install.packages("swirl")
    Ctrl + Enter on example code
    x <- rnorm(100) versus (x <- rnorm(100))</li>
    For repetitive task
```

#### Some tips

• Play with .RProfile

```
message("Hi your_name, welcome to R!")
if(interactive()) {
    suppressMessages(require(usethis))
    try(fortunes::fortune(), silent = TRUE)
}

options(
    prompt = "indo-R > ",
    continue = " ",
    useFancyQuotes = FALSE,
    max.print = 100
)
```

- Coding style
  - Google's R style guide, or
  - The tidyverse style guide

# RStudio hidden gems

#### Outline

- RStudio project, use version control!
- Installing and updating package, hit Tools menu
- Using source editor (R script, Rmarkdown)
  - Use section for R script, Ctrl + Shift + R
  - Please name your chunks!
- Setup Global Options
  - Do not save or load . Rdata
  - Adjust pane layout, console to right
  - Change theme and font, e.g. Fira Code font family
- The friendly Tab
  - File navigation
  - Autocompletion
- Handy shortcuts
- Addins
  - syler
  - datapasta
  - ∘ reprex
  - ∘ clipr
  - ggThemeAssist
- Cheatsheets, hit Help Cheatsheets

#### Handy shortcuts

• Alt + -, for assignment operator <-• Ctrl + Shift + M, for pipe operator %>% • Ctrl + Enter, run example on help page • Ctrl + Shift + [number], change focus • Ctrl + Up, search for code history on console or editor pane • Alt + Up/Down, move code to above or below • Alt + Shift + Up/Down, copy code to above or below • Ctrl + D, delete current line • Ctrl + I, reindent code • Ctrl + Shift + A, reformat code • Ctrl + Shift + F10, restart R session • Ctrl + Alt + B, run code up to current line • Ctrl + ., find file • Alt + Shift + K, shortcuts quick reference

### Thanks!