posner

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We did Posner’s classic gaze cuing experiment on psytoolkit.org. We recorded the results for us 3 participants, entered them into a csv file and tried to visualise them.

library(tidyverse)

## ── Attaching packages ───────────────────────────────────────── tidyverse 1.3.0 ──

## ✓ ggplot2 3.3.0 ✓ purrr 0.3.3  
## ✓ tibble 3.0.0 ✓ dplyr 0.8.4  
## ✓ tidyr 1.0.2 ✓ stringr 1.4.0  
## ✓ readr 1.3.1 ✓ forcats 0.5.0

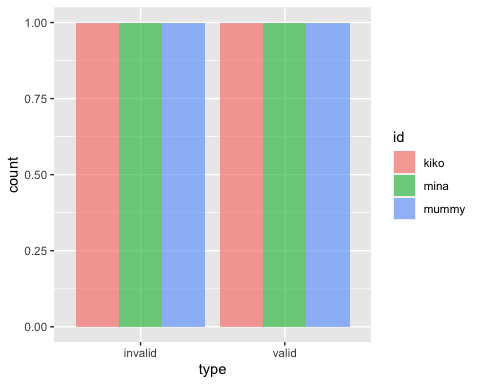
## ── Conflicts ──────────────────────────────────────────── tidyverse\_conflicts() ──  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

read.csv("/Users/makir/OneDrive - University of Glasgow/R/posner.csv")

## id type rt  
## 1 mummy valid 436  
## 2 mummy invalid 460  
## 3 kiko valid 463  
## 4 kiko invalid 458  
## 5 mina valid 414  
## 6 mina invalid 505

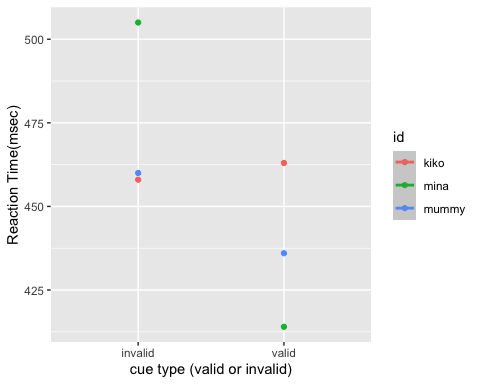
posner\_data <- read.csv("/Users/makir/OneDrive - University of Glasgow/R/posner.csv")

ggplot(posner\_data, aes(x=type, fill= id)) + geom\_bar(position = "dodge", alpha =.6)



ggplot(posner\_data, aes(x=type, y= rt, color = id))+geom\_point()+ scale\_x\_discrete(name="cue type (valid or invalid)") + scale\_y\_continuous(name="Reaction Time(msec)") + geom\_smooth(method = lm)

## `geom\_smooth()` using formula 'y ~ x'



ggplot(posner\_data, aes(x = type, y=rt, color=id)) + geom\_boxplot() + geom\_point() +geom\_jitter(height = 0, width = .1) + scale\_x\_discrete(name="cue type (valid or invalid)") + scale\_y\_continuous(name="Reaction Time(msec)") + scale\_fill\_discrete(guide = FALSE)

