Auswertung FITC

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# 1 Setup R

packages <- c("knitr",  
 "shiny",  
 "Rmisc",  
 "tidyverse",  
 "ez",  
 "rmdformats",  
 "rmarkdown",  
 "ggsci",  
 "viridis",  
 "lemon",  
 "posterdown",  
 "rprojroot"  
 )  
   
  
if (length(setdiff(packages, rownames(installed.packages()))) > 0) {  
 install.packages(setdiff(packages, rownames(installed.packages())))   
}  
  
library("tidyverse")  
library(knitr)  
  
writeLines(capture.output(sessionInfo()), paste0(format(Sys.time(), "%Y%b%d"),"sessionInfo.txt"))  
  
  
  
opts\_knit$set(  
 root.dir = rprojroot::find\_rstudio\_root\_file(),  
 base.dir = rprojroot::find\_rstudio\_root\_file()  
 )

# 2 Empirische Hypothesen und Skizze

Bedrohliche Gesichter werden in einer Menge emotionaler Distraktoren schneller gefunden als freundliche Gesichter. Zudem ist die Antwortgenauigkeit bei Trials mit bedrohlichen Gesichtern höher.

**Skizze**

Skizze

Skizze

# 3 Import

data.files <- list.files("Alle Daten/")  
data.df <- data.frame()  
  
# data.df aller VPs einlesen  
for (file in data.files){  
 data = read.csv(paste0("./Alle Daten/", file ), header=TRUE, fileEncoding = "UTF-8-BOM")  
 data.df = rbind(data.df, data)  
}

# 4 Bereingiung

## 4.1 Übungstrials entfernen

data.df <- data.df %>%  
 filter(phase != "uebung")  
data.df

## X Condition1 Condition2 id rt p corr vpnr phase age  
## 1 7 -1 -1 K1 1161.2574 0.7 1 1 experiment 40  
## 2 8 -1 -1 K1 874.4570 0.7 0 1 experiment 40  
## 3 9 -1 -1 K1 968.5896 0.7 0 1 experiment 40  
## 4 10 -1 -1 K1 953.6960 0.7 0 1 experiment 40  
## 5 11 -1 -1 K1 1196.0816 0.7 1 1 experiment 40  
## 6 12 -1 -1 K1 1046.9369 0.7 1 1 experiment 40  
## 7 13 -1 -1 K1 1258.0639 0.7 1 1 experiment 40  
## 8 14 -1 -1 K1 1096.0048 0.7 1 1 experiment 40  
## 9 15 -1 -1 K1 1216.9232 0.7 1 1 experiment 40  
## 10 16 -1 -1 K1 1927.6921 0.7 1 1 experiment 40  
## 11 17 -1 -1 K1 1045.2237 0.7 1 1 experiment 40  
## 12 18 -1 -1 K1 1264.8020 0.7 0 1 experiment 40  
## 13 19 -1 -1 K1 1510.1319 0.7 1 1 experiment 40  
## 14 20 -1 -1 K1 971.5866 0.7 1 1 experiment 40  
## 15 21 -1 -1 K1 1174.2129 0.7 1 1 experiment 40  
## 16 22 -1 -1 K1 924.4310 0.7 0 1 experiment 40  
## 17 23 -1 -1 K1 996.9892 0.7 0 1 experiment 40  
## 18 24 -1 -1 K1 1047.7837 0.7 1 1 experiment 40  
## 19 25 -1 -1 K1 793.4472 0.7 1 1 experiment 40  
## 20 26 -1 -1 K1 1046.2143 0.7 0 1 experiment 40  
## 21 27 -1 -1 K1 1371.9310 0.7 1 1 experiment 40  
## 22 28 -1 -1 K1 1028.5054 0.7 1 1 experiment 40  
## 23 29 -1 -1 K1 1089.0199 0.7 1 1 experiment 40  
## 24 30 -1 -1 K1 1145.2504 0.7 1 1 experiment 40  
## 25 31 -1 -1 K1 1094.1346 0.7 1 1 experiment 40  
## 26 32 -1 -1 K1 958.7083 0.7 1 1 experiment 40  
## 27 33 -1 -1 K1 1315.6751 0.7 1 1 experiment 40  
## 28 34 -1 -1 K1 1184.3405 0.7 1 1 experiment 40  
## 29 35 -1 -1 K1 1280.5263 0.7 1 1 experiment 40  
## 30 36 -1 -1 K1 912.7338 0.7 1 1 experiment 40  
## 31 37 -1 -1 K1 1221.3260 0.7 1 1 experiment 40  
## 32 38 -1 -1 K1 1058.4114 0.7 0 1 experiment 40  
## 33 39 -1 -1 K1 1308.3601 0.7 1 1 experiment 40  
## 34 40 -1 -1 K1 1171.5059 0.7 1 1 experiment 40  
## 35 41 -1 -1 K1 1269.8071 0.7 0 1 experiment 40  
## 36 42 -1 -1 K1 1121.8114 0.7 1 1 experiment 40  
## 37 43 -1 -1 K1 1110.7091 0.7 1 1 experiment 40  
## 38 44 -1 -1 K1 1275.8269 0.7 1 1 experiment 40  
## 39 45 -1 -1 K1 819.9629 0.7 1 1 experiment 40  
## 40 46 -1 -1 K1 1086.8724 0.7 1 1 experiment 40  
## 41 47 -1 -1 K1 1227.7035 0.7 1 1 experiment 40  
## 42 48 -1 -1 K1 1199.8219 0.7 1 1 experiment 40  
## 43 49 -1 -1 K1 1087.0445 0.7 1 1 experiment 40  
## 44 50 -1 -1 K1 1359.3188 0.7 1 1 experiment 40  
## 45 51 -1 -1 K1 1069.8476 0.7 0 1 experiment 40  
## 46 52 -1 -1 K1 986.8989 0.7 1 1 experiment 40  
## 47 53 -1 -1 K1 883.0832 0.7 1 1 experiment 40  
## 48 54 -1 -1 K1 906.6728 0.7 1 1 experiment 40  
## 49 55 -1 -1 K1 1018.2868 0.7 1 1 experiment 40  
## 50 56 -1 -1 K1 1105.5538 0.7 1 1 experiment 40  
## 51 57 -1 -1 K1 1180.3909 0.7 1 1 experiment 40  
## 52 58 -1 -1 K1 1056.5289 0.7 0 1 experiment 40  
## 53 59 -1 -1 K1 1452.4476 0.7 1 1 experiment 40  
## 54 60 -1 -1 K1 1008.5477 0.7 1 1 experiment 40  
## 55 67 1 -1 K1 947.5872 0.8 1 1 experiment 40  
## 56 68 1 -1 K1 1433.4700 0.8 1 1 experiment 40  
## 57 69 1 -1 K1 1080.6707 0.8 1 1 experiment 40  
## 58 70 1 -1 K1 1382.8783 0.8 1 1 experiment 40  
## 59 71 1 -1 K1 1083.8845 0.8 0 1 experiment 40  
## 60 72 1 -1 K1 1078.4293 0.8 1 1 experiment 40  
## 61 73 1 -1 K1 1139.1889 0.8 1 1 experiment 40  
## 62 74 1 -1 K1 1462.5601 0.8 1 1 experiment 40  
## 63 75 1 -1 K1 1416.5859 0.8 1 1 experiment 40  
## 64 76 1 -1 K1 1102.1214 0.8 1 1 experiment 40  
## 65 77 1 -1 K1 1317.3945 0.8 0 1 experiment 40  
## 66 78 1 -1 K1 1663.9572 0.8 1 1 experiment 40  
## 67 79 1 -1 K1 1121.0781 0.8 1 1 experiment 40  
## 68 80 1 -1 K1 1266.0082 0.8 1 1 experiment 40  
## 69 81 1 -1 K1 1106.3430 0.8 1 1 experiment 40  
## 70 82 1 -1 K1 1074.8571 0.8 0 1 experiment 40  
## 71 83 1 -1 K1 1299.9419 0.8 0 1 experiment 40  
## 72 84 1 -1 K1 1019.6835 0.8 0 1 experiment 40  
## 73 85 1 -1 K1 1265.0306 0.8 0 1 experiment 40  
## 74 86 1 -1 K1 974.6605 0.8 1 1 experiment 40  
## 75 87 1 -1 K1 1039.9190 0.8 1 1 experiment 40  
## 76 88 1 -1 K1 987.9653 0.8 1 1 experiment 40  
## 77 89 1 -1 K1 1037.2345 0.8 0 1 experiment 40  
## 78 90 1 -1 K1 924.2071 0.8 1 1 experiment 40  
## 79 91 1 -1 K1 1221.4426 0.8 1 1 experiment 40  
## 80 92 1 -1 K1 1434.9964 0.8 0 1 experiment 40  
## 81 93 1 -1 K1 1318.8349 0.8 1 1 experiment 40  
## 82 94 1 -1 K1 1336.2409 0.8 1 1 experiment 40  
## 83 95 1 -1 K1 1129.9653 0.8 1 1 experiment 40  
## 84 96 1 -1 K1 1110.6116 0.8 1 1 experiment 40  
## 85 97 1 -1 K1 1350.1069 0.8 1 1 experiment 40  
## 86 98 1 -1 K1 1200.7901 0.8 0 1 experiment 40  
## 87 99 1 -1 K1 1228.7245 0.8 0 1 experiment 40  
## 88 100 1 -1 K1 1086.6309 0.8 1 1 experiment 40  
## 89 101 1 -1 K1 1051.0407 0.8 1 1 experiment 40  
## 90 102 1 -1 K1 2000.6079 0.8 1 1 experiment 40  
## 91 103 1 -1 K1 1216.4232 0.8 1 1 experiment 40  
## 92 104 1 -1 K1 1024.8052 0.8 1 1 experiment 40  
## 93 105 1 -1 K1 979.5369 0.8 1 1 experiment 40  
## 94 106 1 -1 K1 1139.9695 0.8 1 1 experiment 40  
## 95 107 1 -1 K1 1532.6683 0.8 1 1 experiment 40  
## 96 108 1 -1 K1 1197.5325 0.8 1 1 experiment 40  
## 97 109 1 -1 K1 1764.4357 0.8 1 1 experiment 40  
## 98 110 1 -1 K1 1280.0162 0.8 1 1 experiment 40  
## 99 111 1 -1 K1 1088.1178 0.8 1 1 experiment 40  
## 100 112 1 -1 K1 1119.7144 0.8 1 1 experiment 40  
## 101 113 1 -1 K1 990.8218 0.8 0 1 experiment 40  
## 102 114 1 -1 K1 845.0788 0.8 1 1 experiment 40  
## 103 115 1 -1 K1 1268.1649 0.8 0 1 experiment 40  
## 104 116 1 -1 K1 962.0749 0.8 1 1 experiment 40  
## 105 117 1 -1 K1 1126.0753 0.8 0 1 experiment 40  
## 106 118 1 -1 K1 1220.1846 0.8 1 1 experiment 40  
## 107 119 1 -1 K1 1978.7363 0.8 1 1 experiment 40  
## 108 120 1 -1 K1 1147.7613 0.8 1 1 experiment 40  
## 109 127 -1 1 K1 1016.9836 0.8 1 1 experiment 40  
## 110 128 -1 1 K1 1180.7796 0.8 1 1 experiment 40  
## 111 129 -1 1 K1 1170.1209 0.8 1 1 experiment 40  
## 112 130 -1 1 K1 926.3612 0.8 1 1 experiment 40  
## 113 131 -1 1 K1 879.5782 0.8 0 1 experiment 40  
## 114 132 -1 1 K1 1206.5769 0.8 1 1 experiment 40  
## 115 133 -1 1 K1 1529.8436 0.8 1 1 experiment 40  
## 116 134 -1 1 K1 1182.0237 0.8 1 1 experiment 40  
## 117 135 -1 1 K1 1163.1903 0.8 1 1 experiment 40  
## 118 136 -1 1 K1 1146.5302 0.8 0 1 experiment 40  
## 119 137 -1 1 K1 1843.1242 0.8 1 1 experiment 40  
## 120 138 -1 1 K1 1138.0574 0.8 1 1 experiment 40  
## 121 139 -1 1 K1 1230.8937 0.8 1 1 experiment 40  
## 122 140 -1 1 K1 1183.8365 0.8 1 1 experiment 40  
## 123 141 -1 1 K1 1021.7259 0.8 1 1 experiment 40  
## 124 142 -1 1 K1 1030.4951 0.8 0 1 experiment 40  
## 125 143 -1 1 K1 1263.0008 0.8 1 1 experiment 40  
## 126 144 -1 1 K1 1113.6345 0.8 1 1 experiment 40  
## 127 145 -1 1 K1 990.4889 0.8 1 1 experiment 40  
## 128 146 -1 1 K1 1276.3671 0.8 0 1 experiment 40  
## 129 147 -1 1 K1 948.2025 0.8 1 1 experiment 40  
## 130 148 -1 1 K1 1401.7307 0.8 0 1 experiment 40  
## 131 149 -1 1 K1 1190.8405 0.8 1 1 experiment 40  
## 132 150 -1 1 K1 1161.3612 0.8 1 1 experiment 40  
## 133 151 -1 1 K1 1061.1528 0.8 0 1 experiment 40  
## 134 152 -1 1 K1 1113.8775 0.8 1 1 experiment 40  
## 135 153 -1 1 K1 1134.7888 0.8 1 1 experiment 40  
## 136 154 -1 1 K1 993.4944 0.8 1 1 experiment 40  
## 137 155 -1 1 K1 1148.2136 0.8 1 1 experiment 40  
## 138 156 -1 1 K1 924.7901 0.8 1 1 experiment 40  
## 139 157 -1 1 K1 1039.1859 0.8 1 1 experiment 40  
## 140 158 -1 1 K1 1009.4016 0.8 1 1 experiment 40  
## 141 159 -1 1 K1 1042.2642 0.8 1 1 experiment 40  
## 142 160 -1 1 K1 1452.8476 0.8 1 1 experiment 40  
## 143 161 -1 1 K1 1110.8957 0.8 0 1 experiment 40  
## 144 162 -1 1 K1 1304.6494 0.8 0 1 experiment 40  
## 145 163 -1 1 K1 1426.9960 0.8 0 1 experiment 40  
## 146 164 -1 1 K1 1096.7421 0.8 1 1 experiment 40  
## 147 165 -1 1 K1 914.0391 0.8 1 1 experiment 40  
## 148 166 -1 1 K1 1063.9958 0.8 1 1 experiment 40  
## 149 167 -1 1 K1 1258.8832 0.8 1 1 experiment 40  
## 150 168 -1 1 K1 1064.8960 0.8 0 1 experiment 40  
## 151 169 -1 1 K1 1199.5318 0.8 0 1 experiment 40  
## 152 170 -1 1 K1 1369.1884 0.8 1 1 experiment 40  
## 153 171 -1 1 K1 1389.6777 0.8 1 1 experiment 40  
## 154 172 -1 1 K1 1087.5405 0.8 1 1 experiment 40  
## 155 173 -1 1 K1 1082.9631 0.8 1 1 experiment 40  
## 156 174 -1 1 K1 1453.5185 0.8 1 1 experiment 40  
## 157 175 -1 1 K1 1207.4563 0.8 1 1 experiment 40  
## 158 176 -1 1 K1 1271.9531 0.8 1 1 experiment 40  
## 159 177 -1 1 K1 1185.8283 0.8 1 1 experiment 40  
## 160 178 -1 1 K1 1468.6866 0.8 0 1 experiment 40  
## 161 179 -1 1 K1 1046.1489 0.8 1 1 experiment 40  
## 162 180 -1 1 K1 998.8208 0.8 1 1 experiment 40  
## 163 187 1 1 K1 1566.8689 0.9 1 1 experiment 40  
## 164 188 1 1 K1 1146.2169 0.9 1 1 experiment 40  
## 165 189 1 1 K1 1239.7676 0.9 0 1 experiment 40  
## 166 190 1 1 K1 1075.9650 0.9 1 1 experiment 40  
## 167 191 1 1 K1 934.7064 0.9 1 1 experiment 40  
## 168 192 1 1 K1 1515.6571 0.9 1 1 experiment 40  
## 169 193 1 1 K1 1031.0432 0.9 1 1 experiment 40  
## 170 194 1 1 K1 1167.5722 0.9 1 1 experiment 40  
## 171 195 1 1 K1 941.4113 0.9 1 1 experiment 40  
## 172 196 1 1 K1 1358.5126 0.9 1 1 experiment 40  
## 173 197 1 1 K1 1046.0137 0.9 1 1 experiment 40  
## 174 198 1 1 K1 1296.7373 0.9 0 1 experiment 40  
## 175 199 1 1 K1 1024.1221 0.9 1 1 experiment 40  
## 176 200 1 1 K1 1001.7118 0.9 1 1 experiment 40  
## 177 201 1 1 K1 1131.7116 0.9 1 1 experiment 40  
## 178 202 1 1 K1 1024.7617 0.9 1 1 experiment 40  
## 179 203 1 1 K1 983.1102 0.9 1 1 experiment 40  
## 180 204 1 1 K1 1132.5323 0.9 1 1 experiment 40  
## 181 205 1 1 K1 1153.5737 0.9 1 1 experiment 40  
## 182 206 1 1 K1 953.7032 0.9 0 1 experiment 40  
## 183 207 1 1 K1 1019.1465 0.9 1 1 experiment 40  
## 184 208 1 1 K1 1244.1552 0.9 1 1 experiment 40  
## 185 209 1 1 K1 1642.3207 0.9 0 1 experiment 40  
## 186 210 1 1 K1 934.1724 0.9 1 1 experiment 40  
## 187 211 1 1 K1 1279.3796 0.9 1 1 experiment 40  
## 188 212 1 1 K1 1582.5415 0.9 1 1 experiment 40  
## 189 213 1 1 K1 1332.7983 0.9 1 1 experiment 40  
## 190 214 1 1 K1 1041.8800 0.9 1 1 experiment 40  
## 191 215 1 1 K1 1199.9856 0.9 1 1 experiment 40  
## 192 216 1 1 K1 1604.4084 0.9 0 1 experiment 40  
## 193 217 1 1 K1 1606.0323 0.9 1 1 experiment 40  
## 194 218 1 1 K1 1055.3544 0.9 1 1 experiment 40  
## 195 219 1 1 K1 1021.8819 0.9 1 1 experiment 40  
## 196 220 1 1 K1 974.7682 0.9 1 1 experiment 40  
## 197 221 1 1 K1 1047.8042 0.9 1 1 experiment 40  
## 198 222 1 1 K1 1128.6500 0.9 1 1 experiment 40  
## 199 223 1 1 K1 1506.6900 0.9 1 1 experiment 40  
## 200 224 1 1 K1 1129.0316 0.9 0 1 experiment 40  
## 201 225 1 1 K1 1019.7097 0.9 1 1 experiment 40  
## 202 226 1 1 K1 884.1908 0.9 1 1 experiment 40  
## 203 227 1 1 K1 1088.2103 0.9 1 1 experiment 40  
## 204 228 1 1 K1 1376.1969 0.9 1 1 experiment 40  
## 205 229 1 1 K1 1058.4161 0.9 1 1 experiment 40  
## 206 230 1 1 K1 955.1222 0.9 0 1 experiment 40  
## 207 231 1 1 K1 1069.8938 0.9 1 1 experiment 40  
## 208 232 1 1 K1 1189.5558 0.9 1 1 experiment 40  
## 209 233 1 1 K1 1076.4598 0.9 1 1 experiment 40  
## 210 234 1 1 K1 1224.7859 0.9 1 1 experiment 40  
## 211 235 1 1 K1 1224.6455 0.9 1 1 experiment 40  
## 212 236 1 1 K1 1149.7210 0.9 1 1 experiment 40  
## 213 237 1 1 K1 1093.2246 0.9 1 1 experiment 40  
## 214 238 1 1 K1 1103.1583 0.9 1 1 experiment 40  
## 215 239 1 1 K1 1041.0870 0.9 1 1 experiment 40  
## 216 240 1 1 K1 1161.3330 0.9 1 1 experiment 40  
## 217 7 -1 -1 K2 978.7539 0.7 1 2 experiment 39  
## 218 8 -1 -1 K2 1084.8665 0.7 0 2 experiment 39  
## 219 9 -1 -1 K2 1110.7352 0.7 1 2 experiment 39  
## 220 10 -1 -1 K2 1099.7089 0.7 1 2 experiment 39  
## 221 11 -1 -1 K2 1136.4092 0.7 0 2 experiment 39  
## 222 12 -1 -1 K2 1370.4427 0.7 1 2 experiment 39  
## 223 13 -1 -1 K2 899.0375 0.7 1 2 experiment 39  
## 224 14 -1 -1 K2 1153.9692 0.7 1 2 experiment 39  
## 225 15 -1 -1 K2 1228.5016 0.7 1 2 experiment 39  
## 226 16 -1 -1 K2 1209.6157 0.7 1 2 experiment 39  
## 227 17 -1 -1 K2 1212.8077 0.7 1 2 experiment 39  
## 228 18 -1 -1 K2 1116.2748 0.7 1 2 experiment 39  
## 229 19 -1 -1 K2 1694.1585 0.7 1 2 experiment 39  
## 230 20 -1 -1 K2 1086.1740 0.7 1 2 experiment 39  
## 231 21 -1 -1 K2 1374.7912 0.7 0 2 experiment 39  
## 232 22 -1 -1 K2 1278.4767 0.7 1 2 experiment 39  
## 233 23 -1 -1 K2 1143.6663 0.7 1 2 experiment 39  
## 234 24 -1 -1 K2 1410.4994 0.7 1 2 experiment 39  
## 235 25 -1 -1 K2 1114.0278 0.7 0 2 experiment 39  
## 236 26 -1 -1 K2 803.2128 0.7 1 2 experiment 39  
## 237 27 -1 -1 K2 1255.9137 0.7 1 2 experiment 39  
## 238 28 -1 -1 K2 1247.7932 0.7 1 2 experiment 39  
## 239 29 -1 -1 K2 990.9312 0.7 1 2 experiment 39  
## 240 30 -1 -1 K2 1202.5321 0.7 1 2 experiment 39  
## 241 31 -1 -1 K2 1148.1050 0.7 1 2 experiment 39  
## 242 32 -1 -1 K2 1057.9838 0.7 0 2 experiment 39  
## 243 33 -1 -1 K2 1197.8303 0.7 1 2 experiment 39  
## 244 34 -1 -1 K2 1349.4097 0.7 0 2 experiment 39  
## 245 35 -1 -1 K2 1242.4337 0.7 1 2 experiment 39  
## 246 36 -1 -1 K2 1063.5722 0.7 0 2 experiment 39  
## 247 37 -1 -1 K2 957.7843 0.7 1 2 experiment 39  
## 248 38 -1 -1 K2 1080.2161 0.7 1 2 experiment 39  
## 249 39 -1 -1 K2 1522.6797 0.7 1 2 experiment 39  
## 250 40 -1 -1 K2 1322.2631 0.7 1 2 experiment 39  
## 251 41 -1 -1 K2 1280.1774 0.7 0 2 experiment 39  
## 252 42 -1 -1 K2 1626.4447 0.7 0 2 experiment 39  
## 253 43 -1 -1 K2 2016.3169 0.7 0 2 experiment 39  
## 254 44 -1 -1 K2 1180.4921 0.7 1 2 experiment 39  
## 255 45 -1 -1 K2 863.4099 0.7 0 2 experiment 39  
## 256 46 -1 -1 K2 1058.4597 0.7 1 2 experiment 39  
## 257 47 -1 -1 K2 1033.2014 0.7 0 2 experiment 39  
## 258 48 -1 -1 K2 950.6203 0.7 1 2 experiment 39  
## 259 49 -1 -1 K2 884.6032 0.7 1 2 experiment 39  
## 260 50 -1 -1 K2 1072.7354 0.7 1 2 experiment 39  
## 261 51 -1 -1 K2 1058.6428 0.7 0 2 experiment 39  
## 262 52 -1 -1 K2 983.7676 0.7 1 2 experiment 39  
## 263 53 -1 -1 K2 1188.7906 0.7 0 2 experiment 39  
## 264 54 -1 -1 K2 1084.3349 0.7 0 2 experiment 39  
## 265 55 -1 -1 K2 1619.2128 0.7 0 2 experiment 39  
## 266 56 -1 -1 K2 1206.8087 0.7 0 2 experiment 39  
## 267 57 -1 -1 K2 1055.1971 0.7 1 2 experiment 39  
## 268 58 -1 -1 K2 995.8355 0.7 0 2 experiment 39  
## 269 59 -1 -1 K2 949.3863 0.7 1 2 experiment 39  
## 270 60 -1 -1 K2 2098.5416 0.7 1 2 experiment 39  
## 271 67 1 -1 K2 1522.2366 0.8 1 2 experiment 39  
## 272 68 1 -1 K2 1343.0826 0.8 1 2 experiment 39  
## 273 69 1 -1 K2 1130.5729 0.8 1 2 experiment 39  
## 274 70 1 -1 K2 986.9297 0.8 1 2 experiment 39  
## 275 71 1 -1 K2 945.4079 0.8 1 2 experiment 39  
## 276 72 1 -1 K2 1392.9111 0.8 0 2 experiment 39  
## 277 73 1 -1 K2 1402.2588 0.8 1 2 experiment 39  
## 278 74 1 -1 K2 1260.3346 0.8 0 2 experiment 39  
## 279 75 1 -1 K2 1013.2795 0.8 1 2 experiment 39  
## 280 76 1 -1 K2 1113.4320 0.8 0 2 experiment 39  
## 281 77 1 -1 K2 1311.3050 0.8 1 2 experiment 39  
## 282 78 1 -1 K2 1524.3315 0.8 1 2 experiment 39  
## 283 79 1 -1 K2 1286.4333 0.8 1 2 experiment 39  
## 284 80 1 -1 K2 1069.7352 0.8 1 2 experiment 39  
## 285 81 1 -1 K2 1254.0987 0.8 0 2 experiment 39  
## 286 82 1 -1 K2 1087.2618 0.8 1 2 experiment 39  
## 287 83 1 -1 K2 1680.9664 0.8 1 2 experiment 39  
## 288 84 1 -1 K2 1028.1926 0.8 1 2 experiment 39  
## 289 85 1 -1 K2 1145.7196 0.8 1 2 experiment 39  
## 290 86 1 -1 K2 1074.4856 0.8 1 2 experiment 39  
## 291 87 1 -1 K2 987.1916 0.8 0 2 experiment 39  
## 292 88 1 -1 K2 1400.3841 0.8 1 2 experiment 39  
## 293 89 1 -1 K2 1192.9568 0.8 1 2 experiment 39  
## 294 90 1 -1 K2 1268.2070 0.8 0 2 experiment 39  
## 295 91 1 -1 K2 1141.4512 0.8 0 2 experiment 39  
## 296 92 1 -1 K2 1418.4464 0.8 1 2 experiment 39  
## 297 93 1 -1 K2 1315.8042 0.8 1 2 experiment 39  
## 298 94 1 -1 K2 1116.1393 0.8 1 2 experiment 39  
## 299 95 1 -1 K2 1643.6163 0.8 1 2 experiment 39  
## 300 96 1 -1 K2 1255.5931 0.8 1 2 experiment 39  
## 301 97 1 -1 K2 925.9348 0.8 0 2 experiment 39  
## 302 98 1 -1 K2 1227.9270 0.8 0 2 experiment 39  
## 303 99 1 -1 K2 1144.4362 0.8 1 2 experiment 39  
## 304 100 1 -1 K2 972.9784 0.8 1 2 experiment 39  
## 305 101 1 -1 K2 1194.2367 0.8 1 2 experiment 39  
## 306 102 1 -1 K2 1704.4685 0.8 1 2 experiment 39  
## 307 103 1 -1 K2 1294.9750 0.8 1 2 experiment 39  
## 308 104 1 -1 K2 1206.3337 0.8 1 2 experiment 39  
## 309 105 1 -1 K2 1070.3666 0.8 0 2 experiment 39  
## 310 106 1 -1 K2 1349.6503 0.8 0 2 experiment 39  
## 311 107 1 -1 K2 1258.6801 0.8 1 2 experiment 39  
## 312 108 1 -1 K2 1403.3419 0.8 1 2 experiment 39  
## 313 109 1 -1 K2 1256.6866 0.8 1 2 experiment 39  
## 314 110 1 -1 K2 1172.3344 0.8 1 2 experiment 39  
## 315 111 1 -1 K2 1179.1280 0.8 0 2 experiment 39  
## 316 112 1 -1 K2 1129.4647 0.8 0 2 experiment 39  
## 317 113 1 -1 K2 1159.4949 0.8 1 2 experiment 39  
## 318 114 1 -1 K2 1385.3230 0.8 0 2 experiment 39  
## 319 115 1 -1 K2 1577.0612 0.8 1 2 experiment 39  
## 320 116 1 -1 K2 1022.0047 0.8 1 2 experiment 39  
## 321 117 1 -1 K2 1325.6249 0.8 1 2 experiment 39  
## 322 118 1 -1 K2 1791.7778 0.8 1 2 experiment 39  
## 323 119 1 -1 K2 1784.7951 0.8 1 2 experiment 39  
## 324 120 1 -1 K2 1117.1518 0.8 1 2 experiment 39  
## 325 127 -1 1 K2 1184.1372 0.8 0 2 experiment 39  
## 326 128 -1 1 K2 1284.0097 0.8 1 2 experiment 39  
## 327 129 -1 1 K2 1125.2399 0.8 1 2 experiment 39  
## 328 130 -1 1 K2 1009.8852 0.8 1 2 experiment 39  
## 329 131 -1 1 K2 1097.6073 0.8 1 2 experiment 39  
## 330 132 -1 1 K2 1229.0370 0.8 1 2 experiment 39  
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## 4301 keine Angabe r  
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## 4308 keine Angabe r  
## 4309 keine Angabe r  
## 4310 keine Angabe r  
## 4311 keine Angabe r  
## 4312 keine Angabe r  
## 4313 keine Angabe r  
## 4314 keine Angabe r  
## 4315 keine Angabe r  
## 4316 keine Angabe r  
## 4317 keine Angabe r  
## 4318 keine Angabe r  
## 4319 keine Angabe r  
## 4320 keine Angabe r

## 4.2 data.dfstruktur prüfen und Faktoren definieren

str(data.df)

## 'data.frame': 4320 obs. of 12 variables:  
## $ X : int 7 8 9 10 11 12 13 14 15 16 ...  
## $ Condition1: int -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 ...  
## $ Condition2: int -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 ...  
## $ id : chr "K1" "K1" "K1" "K1" ...  
## $ rt : num 1161 874 969 954 1196 ...  
## $ p : num 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 ...  
## $ corr : int 1 0 0 0 1 1 1 1 1 1 ...  
## $ vpnr : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ phase : chr "experiment" "experiment" "experiment" "experiment" ...  
## $ age : int 40 40 40 40 40 40 40 40 40 40 ...  
## $ gender : chr "w" "w" "w" "w" ...  
## $ hand : chr "r" "r" "r" "r" ...

data.df <- data.df %>%  
 rename("Expositionszeit" = Condition1,  
 "TargetTyp" = Condition2) %>%  
 mutate(  
 id = factor(id),  
 Expositionszeit= recode\_factor(Expositionszeit, "-1"= "1", "1"="2"),  
 TargetTyp = recode\_factor(TargetTyp, "-1"= "friendly", "1"="threating"),  
 gender = recode\_factor(gender, w = "weiblich", m = "männlich", d = "divers")  
 )  
  
str(data.df)

## 'data.frame': 4320 obs. of 12 variables:  
## $ X : int 7 8 9 10 11 12 13 14 15 16 ...  
## $ Expositionszeit: Factor w/ 2 levels "1","2": 1 1 1 1 1 1 1 1 1 1 ...  
## $ TargetTyp : Factor w/ 2 levels "friendly","threating": 1 1 1 1 1 1 1 1 1 1 ...  
## $ id : Factor w/ 20 levels "K1","K10","K11",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ rt : num 1161 874 969 954 1196 ...  
## $ p : num 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 ...  
## $ corr : int 1 0 0 0 1 1 1 1 1 1 ...  
## $ vpnr : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ phase : chr "experiment" "experiment" "experiment" "experiment" ...  
## $ age : int 40 40 40 40 40 40 40 40 40 40 ...  
## $ gender : Factor w/ 4 levels "weiblich","männlich",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ hand : chr "r" "r" "r" "r" ...

## 4.3 Vollständigkeit der data.df prüfen

# Anzahl der Zeilen im data.dfsatz  
data.df %>% count()

## n  
## 1 4320

# Anzahl der Trials pro Bedingung  
  
data.df %>%  
 group\_by(id, Expositionszeit, TargetTyp) %>% # UV: muss durch Spaltenname ersetzt werden  
 summarise(n=n())

## `summarise()` has grouped output by 'id', 'Expositionszeit'. You can override using the `.groups` argument.

## # A tibble: 80 x 4  
## # Groups: id, Expositionszeit [40]  
## id Expositionszeit TargetTyp n  
## <fct> <fct> <fct> <int>  
## 1 K1 1 friendly 54  
## 2 K1 1 threating 54  
## 3 K1 2 friendly 54  
## 4 K1 2 threating 54  
## 5 K10 1 friendly 54  
## 6 K10 1 threating 54  
## 7 K10 2 friendly 54  
## 8 K10 2 threating 54  
## 9 K11 1 friendly 54  
## 10 K11 1 threating 54  
## # ... with 70 more rows

data.df %>%  
 group\_by(id, Expositionszeit, TargetTyp) %>% # UV: muss durch Spaltenname ersetzt werden  
 count()

## # A tibble: 80 x 4  
## # Groups: id, Expositionszeit, TargetTyp [80]  
## id Expositionszeit TargetTyp n  
## <fct> <fct> <fct> <int>  
## 1 K1 1 friendly 54  
## 2 K1 1 threating 54  
## 3 K1 2 friendly 54  
## 4 K1 2 threating 54  
## 5 K10 1 friendly 54  
## 6 K10 1 threating 54  
## 7 K10 2 friendly 54  
## 8 K10 2 threating 54  
## 9 K11 1 friendly 54  
## 10 K11 1 threating 54  
## # ... with 70 more rows

# 5 Aggregation Einer VP

## 5.1 Analyse der Antwortgenauigkeit

Die Analyse der Antwortgenauigkeit (RA - Response Accuracy) soll pro Bedingung erfolgen. Die Antwortgenauigkeit kann berechnet werden als…

* Summe richtiger Antworten
* Anteil richtiger Antworten an allen Trials einer Bedingung

data.df %>%  
 group\_by(id, Expositionszeit, TargetTyp) %>%  
 summarise(RA.Summe = sum(corr),  
 RA.Anteil = mean(corr),  
 RA.Anteil2 =sum(corr)/n() )

## `summarise()` has grouped output by 'id', 'Expositionszeit'. You can override using the `.groups` argument.

## # A tibble: 80 x 6  
## # Groups: id, Expositionszeit [40]  
## id Expositionszeit TargetTyp RA.Summe RA.Anteil RA.Anteil2  
## <fct> <fct> <fct> <int> <dbl> <dbl>  
## 1 K1 1 friendly 43 0.796 0.796  
## 2 K1 1 threating 42 0.778 0.778  
## 3 K1 2 friendly 41 0.759 0.759  
## 4 K1 2 threating 47 0.870 0.870  
## 5 K10 1 friendly 40 0.741 0.741  
## 6 K10 1 threating 43 0.796 0.796  
## 7 K10 2 friendly 38 0.704 0.704  
## 8 K10 2 threating 48 0.889 0.889  
## 9 K11 1 friendly 42 0.778 0.778  
## 10 K11 1 threating 41 0.759 0.759  
## # ... with 70 more rows

## 5.2 Analyse der Reaktionszeiten

### 5.2.1 visuelle Inspektion

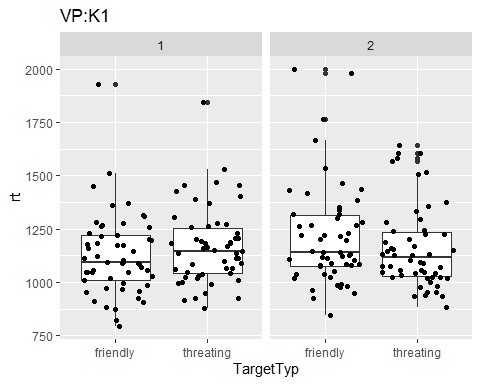
data.df filtern: Ausschluss von Trials, in denen die VP falsch reagiert hat

# data.df filtern: Ausschluss von Trials, in denen die VP falsch reagiert hat  
data.ohneFehler.df <- data.df %>%  
 filter(corr == 1)

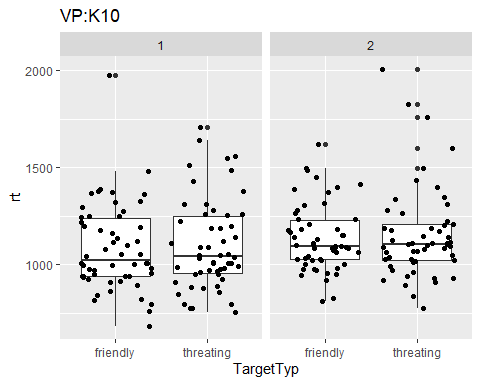
**Verteilung der Reaktionszeiten pro Bedingung und VP**

#### 5.2.1.1

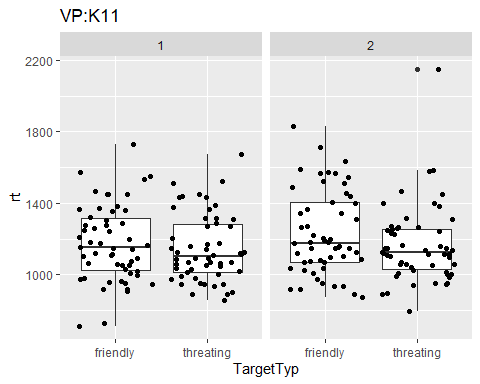
##### 5.2.1.1.1 VP: K1



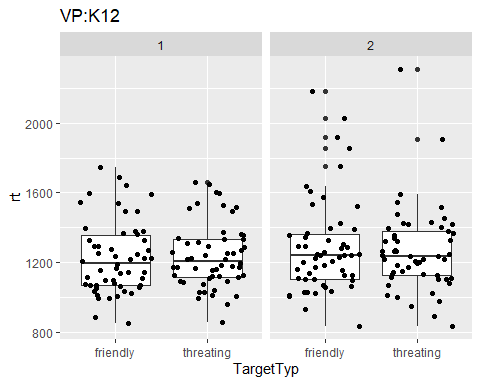
##### 5.2.1.1.2 VP: K10



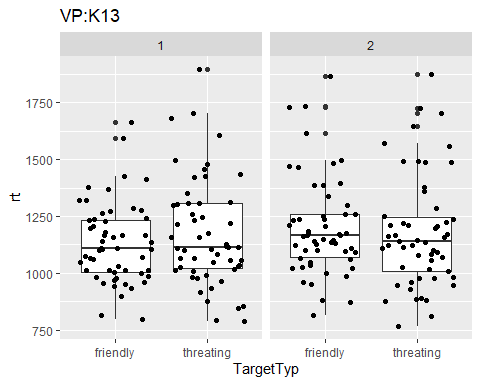
##### 5.2.1.1.3 VP: K11



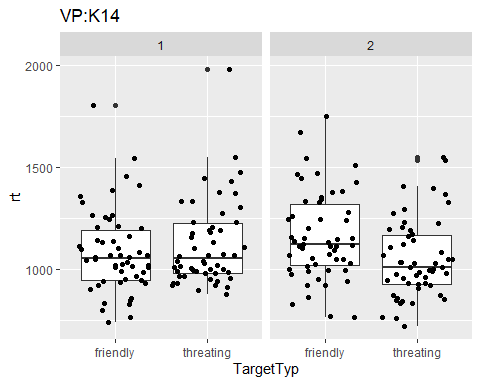
##### 5.2.1.1.4 VP: K12



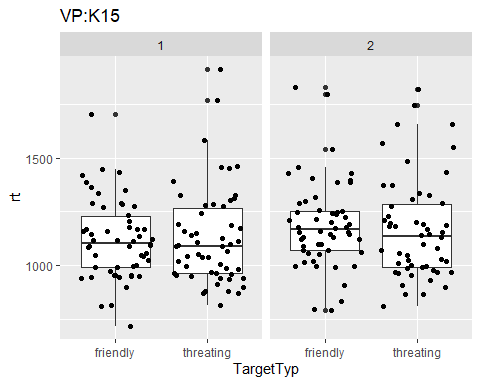
##### 5.2.1.1.5 VP: K13



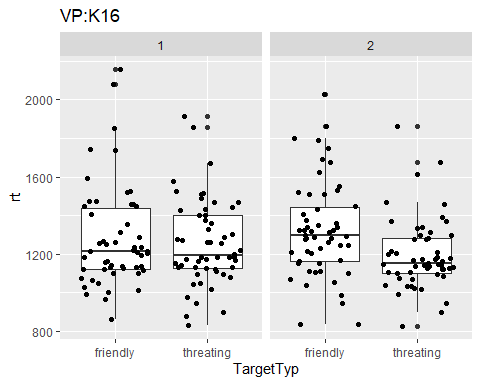
##### 5.2.1.1.6 VP: K14



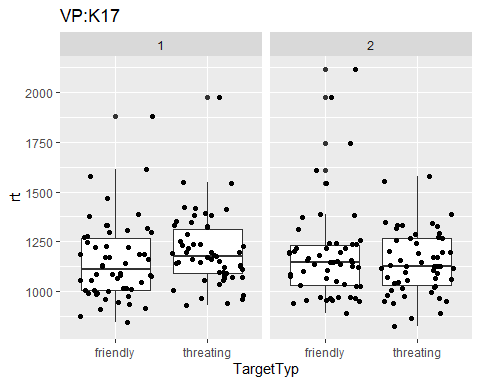
##### 5.2.1.1.7 VP: K15



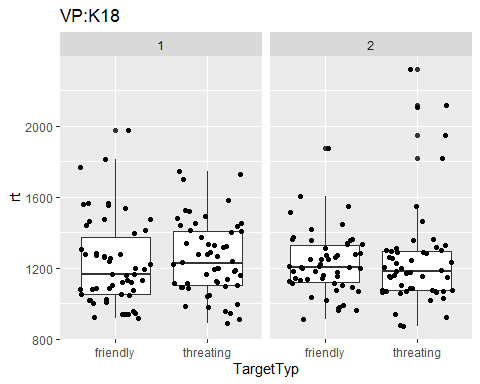
##### 5.2.1.1.8 VP: K16



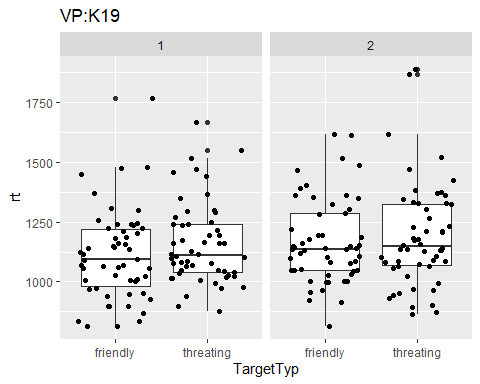
##### 5.2.1.1.9 VP: K17



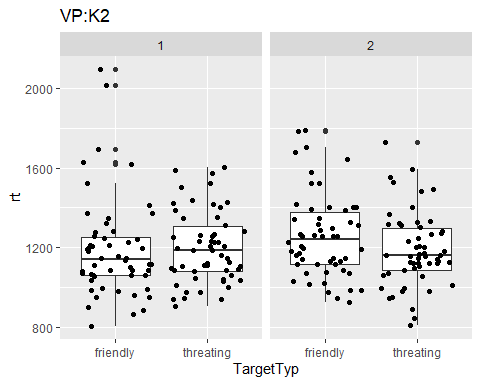
##### 5.2.1.1.10 VP: K18



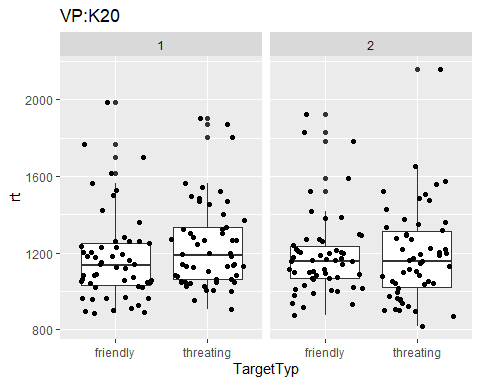
##### 5.2.1.1.11 VP: K19



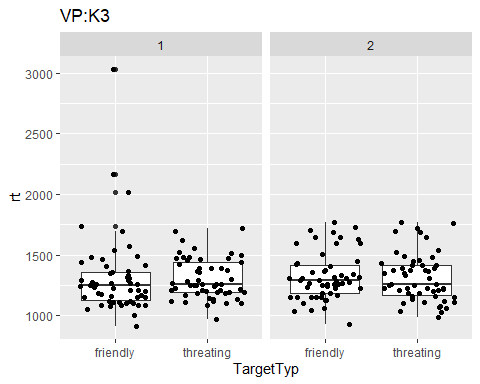
##### 5.2.1.1.12 VP: K2



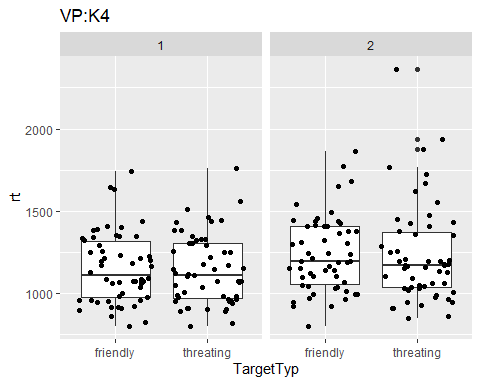
##### 5.2.1.1.13 VP: K20



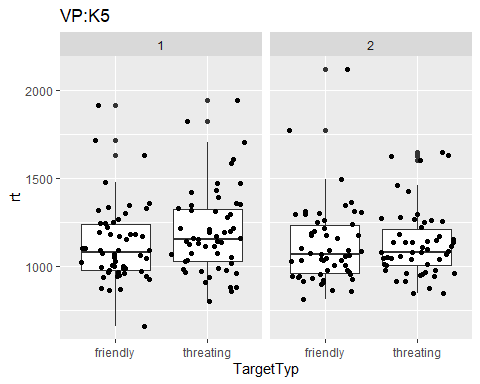
##### 5.2.1.1.14 VP: K3



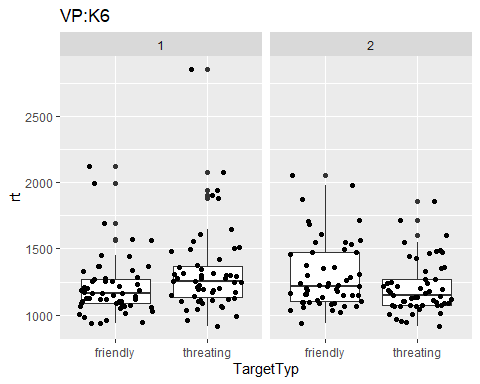
##### 5.2.1.1.15 VP: K4



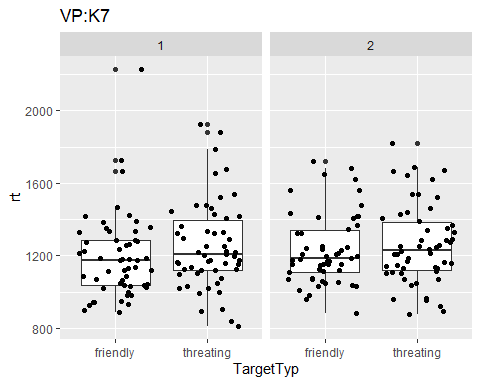
##### 5.2.1.1.16 VP: K5



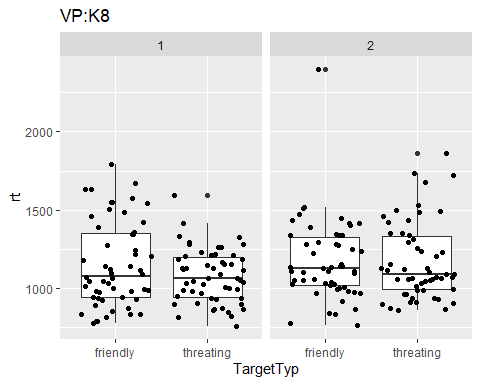
##### 5.2.1.1.17 VP: K6



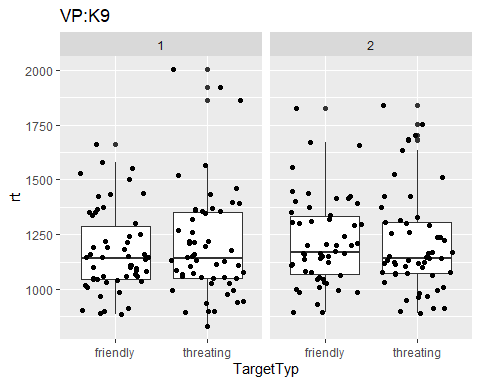
##### 5.2.1.1.18 VP: K7



##### 5.2.1.1.19 VP: K8



##### 5.2.1.1.20 VP: K9



#### 5.2.1.2

### 5.2.2 Ausreißer Reaktionszeiten

data.ohneFehler.df %>%  
 filter(rt > 200) %>%  
 group\_by(id, Expositionszeit,TargetTyp) %>%  
 mutate(remain = (rt < mean(rt) + 3\*sd(rt))) %>%  
 group\_by(id, Expositionszeit,TargetTyp) %>%  
 summarise(RA.remain = sum(remain)/n())

## # A tibble: 80 x 4  
## # Groups: id, Expositionszeit [40]  
## id Expositionszeit TargetTyp RA.remain  
## <fct> <fct> <fct> <dbl>  
## 1 K1 1 friendly 0.977  
## 2 K1 1 threating 0.976  
## 3 K1 2 friendly 1   
## 4 K1 2 threating 1   
## 5 K10 1 friendly 0.975  
## 6 K10 1 threating 1   
## 7 K10 2 friendly 1   
## 8 K10 2 threating 0.979  
## 9 K11 1 friendly 1   
## 10 K11 1 threating 1   
## # ... with 70 more rows

data.RT.df <- data.ohneFehler.df %>%  
 filter(rt > 200) %>%  
 group\_by(id, Expositionszeit,TargetTyp) %>%  
 filter(rt < mean(rt) + 3\*sd(rt))

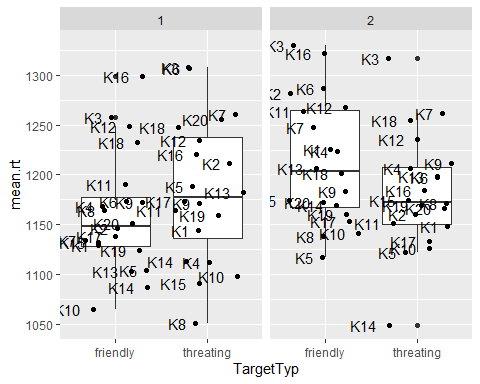
### 5.2.3 VPs ausschließen

#### 5.2.3.1 Boxplot alle Vps

data.boxplot <- data.RT.df %>%   
 group\_by(id, Expositionszeit, TargetTyp) %>%   
 dplyr::summarise(  
 mean.rt = mean(rt),  
 sd.rt = sd(rt),  
 n = dplyr::n()  
 )

## `summarise()` has grouped output by 'id', 'Expositionszeit'. You can override using the `.groups` argument.

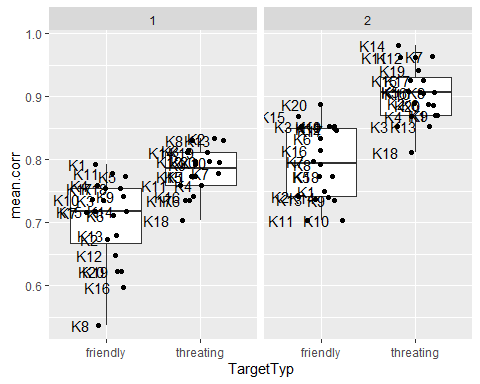
pd = position\_jitter(0.4, seed=1)  
  
ggplot(data = data.boxplot, aes(x = TargetTyp , y = mean.rt, label = id)) +   
 geom\_boxplot() +   
 geom\_point(position = pd) +   
 facet\_grid( ~ Expositionszeit) +   
 geom\_text(position = pd, hjust = 1.5)



data.CORR.df <- data.df %>%  
 filter(rt > 200) %>%  
 group\_by(id, Expositionszeit,TargetTyp) %>%  
 filter(rt < mean(rt) + 3\*sd(rt))  
  
data.boxplot.corr <- data.CORR.df %>%   
 group\_by(id, Expositionszeit, TargetTyp) %>%   
 dplyr::summarise(mean.corr = mean(corr),  
 n = dplyr::n())

## `summarise()` has grouped output by 'id', 'Expositionszeit'. You can override using the `.groups` argument.

pd = position\_jitter(0.25, seed=1)  
ggplot(data = data.boxplot.corr, aes(x = TargetTyp , y = mean.corr, label = id)) +   
 geom\_boxplot() +   
 geom\_point(position = pd) +   
 facet\_grid( ~ Expositionszeit) +   
 geom\_text(position = pd, hjust = 1.5)



#### 5.2.3.2 zu wenig Trials / Auffällige Reaktionszeiten

vp.err<- data.ohneFehler.df %>%   
 group\_by(Expositionszeit, TargetTyp) %>%  
 mutate(mean.rt = mean(rt),  
 sd.rt = sd(rt)) %>%  
 group\_by(id, Expositionszeit, TargetTyp) %>%  
 mutate(nTrials = n())%>%  
 filter(mean(rt) > mean.rt + 3\*sd.rt | # wichtig: größer als obere Grenze   
 mean(rt) < mean.rt - 3\*sd.rt|# wichtig: kleiner als untere Grenze   
 nTrials < 0.55\*54 # Muss ggf. pro VP und Bedingung geprüft werden!  
 ) %>%   
 select(id) %>%  
 distinct() %>%   
 pull(id)

## Adding missing grouping variables: `Expositionszeit`, `TargetTyp`

vp.err

## [1] K8  
## 20 Levels: K1 K10 K11 K12 K13 K14 K15 K16 K17 K18 K19 K2 K20 K3 K4 K5 K6 ... K9

data.clean.rt <- data.ohneFehler.df %>% filter(!(id %in% vp.err))  
data.clean.corr <- data.CORR.df %>% filter(!(id %in% vp.err))

# 6 Aggregation Aller VP

data.clean.corr.sum <- data.clean.corr %>%  
 group\_by(id, Expositionszeit, TargetTyp) %>%   
 dplyr::summarise(mean.corr = mean(corr),  
 sd.corr = sd(corr),  
 n = dplyr::n(),  
 sem.corr = sd.corr/sqrt(n))

## `summarise()` has grouped output by 'id', 'Expositionszeit'. You can override using the `.groups` argument.

data.clean.rt.sum <- data.clean.rt %>%  
 group\_by(id, Expositionszeit, TargetTyp) %>%   
 dplyr::summarise(mean.rt = mean(rt),  
 sd.rt = sd(rt),  
 n = dplyr::n(),  
 sem.rt = sd.rt/sqrt(n))

## `summarise()` has grouped output by 'id', 'Expositionszeit'. You can override using the `.groups` argument.

# 7 Finale Grafik

# 8 Inferenzstatistik