PISA2012 wstępny szkic analizy

```
## Warning: package 'dplyr' was built under R version 3.4.2
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
## Warning: package 'data.table' was built under R version 3.4.2
##
## Attaching package: 'data.table'
## The following objects are masked from 'package:dplyr':
##
##
       between, first, last
Pl.pisa %>%
  select(ST96Q01:ST96Q05) -> pytania
odpowiedzi <- c("definitely do this", "probably do this", "probably not do this", "definitely not do th
podpunkty <- c("I press every button possible to find out what is wrong.",
                              "I think about what might have caused the problem and what I can do to so
                              "I read the manual.",
                              "I ask a friend for help.")
tabelka.sumujaca <- matrix(rep(1:16), nrow=4, ncol = 4)
#pętla zliczająca sumy
for (i in 1:4){
 for (j in 1:4){
   tabelka.sumujaca[i,j] = sum(pytania[,j] == odpowiedzi[i], na.rm = TRUE)
  }
}
#wyrażenie w procentach
tabelka.sumujaca <- prop.table(tabelka.sumujaca, margin = 2)</pre>
tabelka.sumujaca <- as.data.frame(tabelka.sumujaca)</pre>
rownames(tabelka.sumujaca) = odpowiedzi
colnames(tabelka.sumujaca)= podpunkty
#wyświetlenie tabeli
kable(tabelka.sumujaca)
```

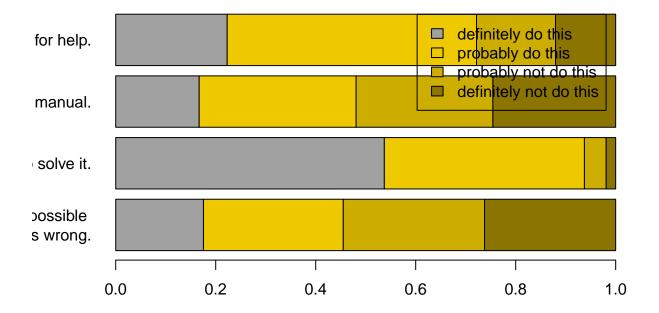
I press every button possible to find out what is wrong.

I think about what might have caused the

definitely do this

	I press every button possible to find out what is wrong.	I think about what might have caused the
probably do this	0.2796333	
probably not do this	0.2825802	
definitely not do this	0.2622790	

Question about the mobile phone



```
#args.legend = list("topleft", odpowiedzi, fill = kolory)
#nie działa legenda i te napisy z boku
```

Tutaj wychodzi fajna sprawa, że ci, którzy by przeczytali instrukcję najwięcej czasu poświęcają na prace domowe. Co by miało sens, bo to pewnie ci bardziej cierpliwi etc.

```
srednia <- vector(length = 4)</pre>
srednia <- as.data.frame(srednia)</pre>
odpowiedzi <- c("definitely do this", "probably do this", "probably not do this", "definitely not do th
for (i in 1:4){
  for (j in c("ST96Q01", "ST96Q02", "ST96Q03", "ST96Q05")){
    Pl.pisa %>%
    filter(Pl.pisa[[j]] == odpowiedzi[i]) %>%
    na.omit %>%
    summarise(mean(ST57Q01)) -> tmp
  srednia[i, j] = tmp[1,]
  }
}
## Warning: package 'bindrcpp' was built under R version 3.4.2
srednia <- select(srednia, -srednia)</pre>
colnames(srednia) = podpunkty
rownames(srednia) = odpowiedzi
kable(srednia, caption = "Mean number of hours spent on homework (per week)")
```

Table 2: Mean number of hours spent on homewor

	I press every button possible to find out what is wrong.	I think about what might have caused the
definitely do this	6.230769	
probably do this	6.694236	
probably not do this	6.850467	
definitely not do this	6.491687	