

J3.3.3.R

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```
library(ggplot2)
library(tidyr)
library(tibble)
library(scales)

#faili sisselugemine ja andmete formaadi korrigeerimine
J333=read.csv("PT3-T3.3-J3.3.3.csv",header=TRUE, encoding ="UTF-8")
J333=rownames_to_column(as.data.frame(t(J333)), "Vanus")
names(J333)[3:7]=J333[1,3:7]
names(J333)[2]="Heaolu"
J333=J333[2:5,]
J333$Vanus=c("8. klass", "8. klass", "11. klass", "11. klass")
J333$grupp=paste(J333$Vanus, J333$Heaolu)
J333=J333[,3:8]
J333=pivot_longer(J333,1:5)
J333$value=as.numeric(J333$value)
J333$grupp=as.factor(J333$grupp)
J333$grupp=factor(J333$grupp, levels(J333$grupp)[order(c(3,4,1,2))])
J333$name=as.factor(J333$name)
J333$name=factor(J333$name, levels(J333$name)[order(c(2,1,5,3,4))])

#joonis
ggplot(J333)+
  geom_col(aes(x=name,y=value,fill=grupp),pos=position_dodge(0.8),width=0.7)+
  theme_minimal()+
  theme(legend.position = "bottom")+
  scale_fill_manual(values=c("#1E272E", "#0069AD", "#4db3d9", "#38bf7b"))+
  theme(text = element_text(color="#668080"),axis.text=element_text(color="#668080"))+
  scale_y_continuous(limits=c(0,4),breaks=c(0,1,2,3,4))+
  theme(legend.title = element_blank())+
  scale_x_discrete(labels = wrap_format(10))+
  ylab("Keskmised hinnangud koolikeskkonna näitajatele")+
  xlab("")
```

