Lorenz Curve with Piketty Data

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과제에 저장되어 있는 `piketty_gini.rda` 파일을 불러들여 각 객체들을 살펴보고, 아래 코드를 참고하여 lorenz curve들을 작성하시오. 의미 이해는 필수!

- 작업 파일 불러들이기.

```
load("piketty_gini.rda")
```
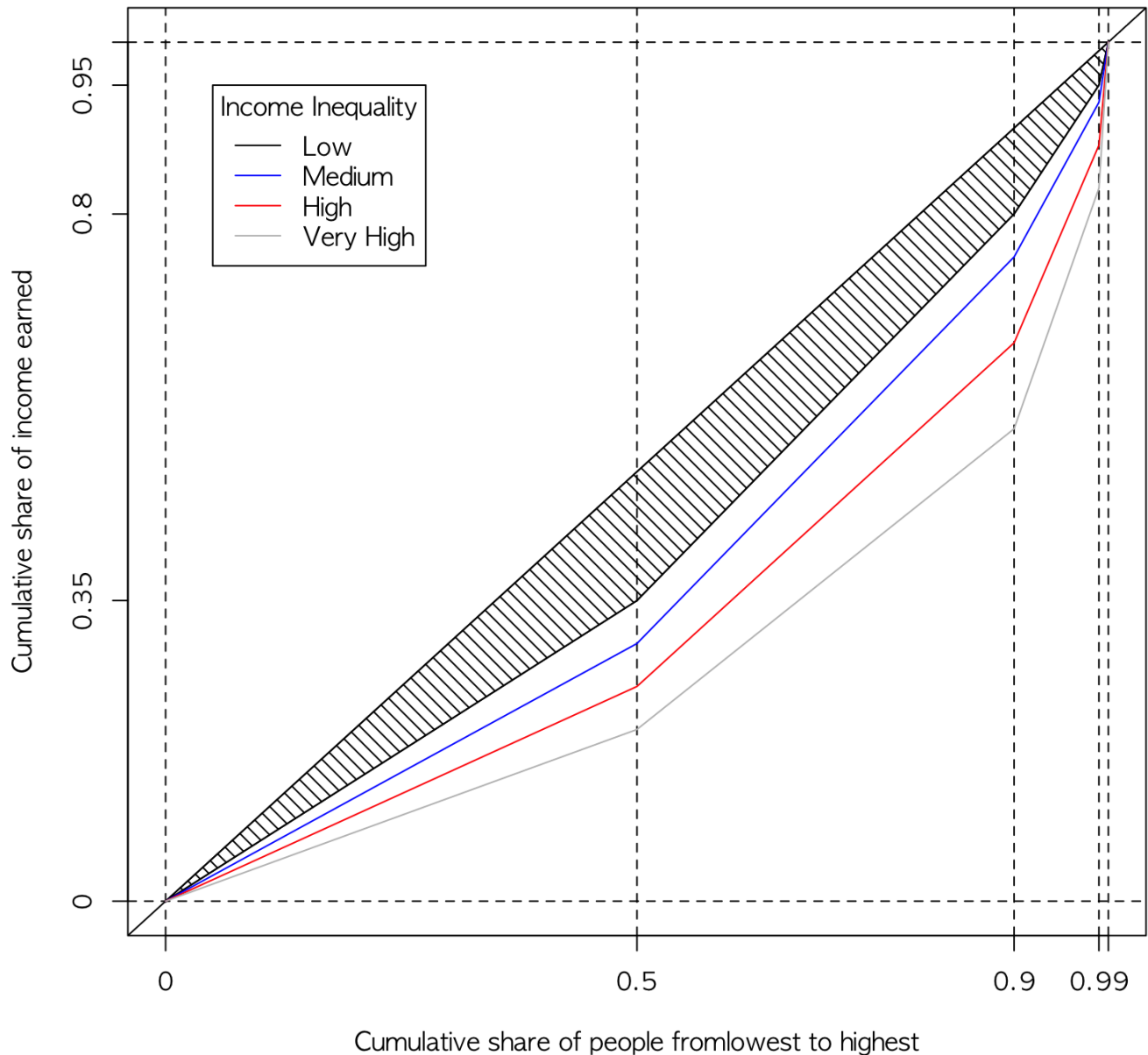
- lorenz curve 그리는 함수 살펴보기. 각 코드의 내용을 이해할 것.

```
lorenz
```

```
## function (x,y)
## {
##   plot(x,y,type="l",xlab="",ylab="",xaxt="n",yaxt="n")
##   abline(v=x,h=c(0,1),lty=2)
##   abline(a=0,b=1,lty=1)
##   polygon(x=c(x,rev(x)),y=c(x,rev(y)),density=15,angle=135)
##   axis(side=1,at=x,labels=paste(x))
##   axis(side=2,at=y,labels=paste(y))
## }
```
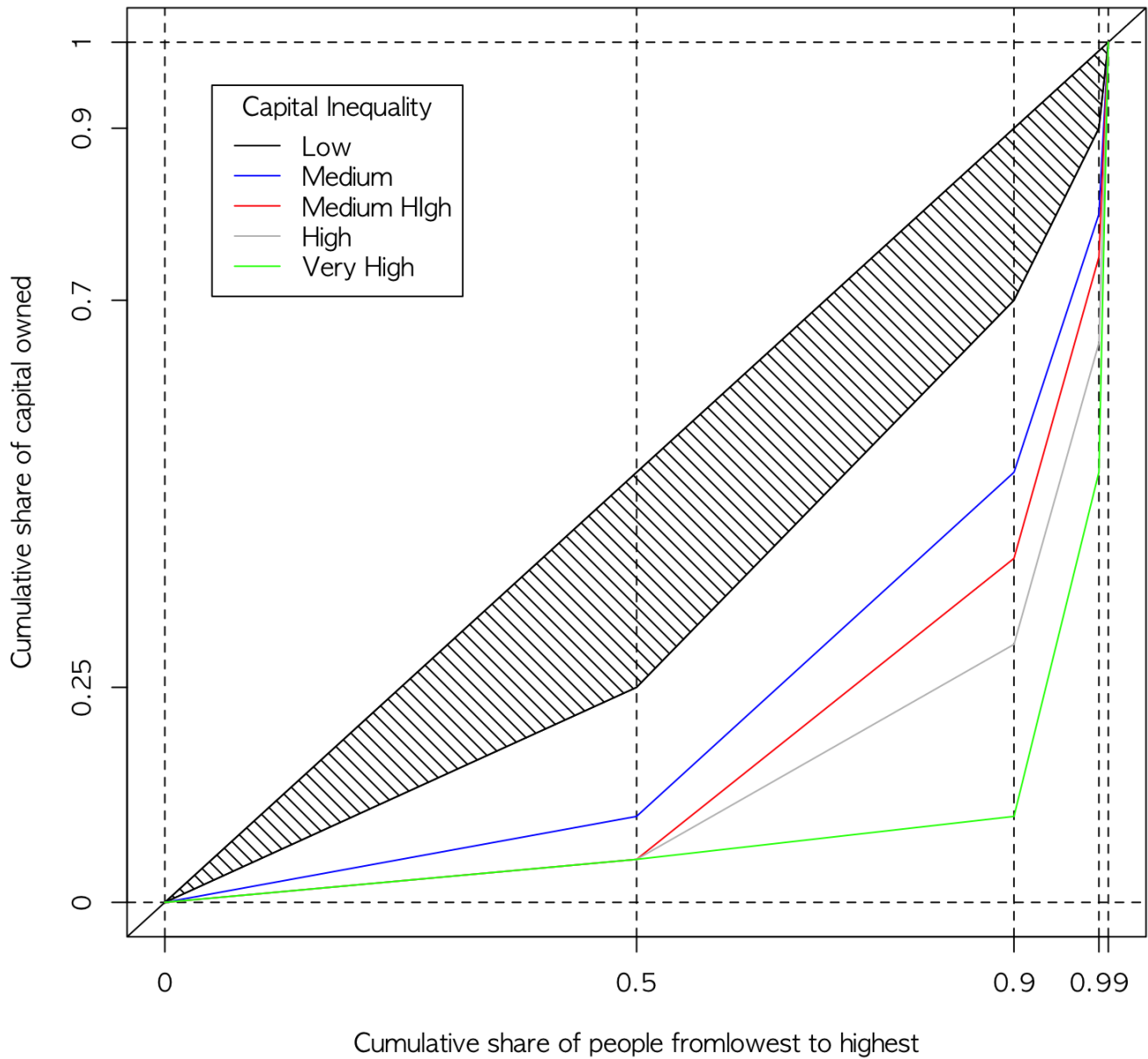
```
x<-piketty.labor
lorenz(x[,1],cumsum(x[,2]))
lines(x[,1],cumsum(x[,3]),col="blue")
lines(x[,1],cumsum(x[,4]),col="red")
lines(x[,1],cumsum(x[,5]),col="grey")
title(main="Lorenz Curve for Labor Income",xlab="Cumulative share of people fro
mlowest to highest",ylab="Cumulative share of income earned")
legend(x=0.05,y=0.95,legend=c("Low","Medium","High","Very High"),lty=1,col=c("b
lack","blue","red","grey"),title="Income Inequality")
```

Lorenz Curve for Labor Income

Cumulative share of income earned

Cumulative share of people fromlowest to highest

Income Inequality
- Low
- Medium
- High
- Very High

```
x<-piketty.co
lorenz(x[,1],cumsum(x[,2]))
lines(x[,1],cumsum(x[,3]),col="blue")
lines(x[,1],cumsum(x[,4]),col="red")
lines(x[,1],cumsum(x[,5]),col="grey")
lines(x[,1],cumsum(x[,6]),col="green")
title(main="Lorenz Curve for Capital Ownership",xlab="Cumulative share of peopl
e fromlowest to highest",ylab="Cumulative share of capital owned")
legend(x=0.05,y=0.95,legend=c("Low","Medium","Medium HIgh","High","Very Hig
h"),lty=1,col=c("black","blue","red","grey","green"),title="Capital Inequalit
y")
```

Lorenz Curve for Capital Ownership

Cumulative share of capital owned

Capital Inequality
- Low
- Medium
- Medium HIgh
- High
- Very High

Cumulative share of people fromlowest to highest

```
x<-piketty.total
lorenz(x[,1],cumsum(x[,2]))
lines(x[,1],cumsum(x[,3]),col="blue")
lines(x[,1],cumsum(x[,4]),col="red")
lines(x[,1],cumsum(x[,5]),col="grey")
title(main="Lorenz Curve for Total Income",xlab="Cumulative share of people fro
mlowest to highest",ylab="Cumulative share of income earned")
legend(x=0.05,y=0.95,legend=c("Low","Medium","High","Very High"),lty=1,col=c("b
lack","blue","red","grey"),title="Income Inequality")
```

Lorenz Curve for Total Income