R 入門（7）Logit/Probit

結婚 p-255:id,age,ダミー(male,partner,undergrad,grad)

```
setwd("/dail")
install.packages("margins")
library("margins")
dat=read.table("17.csv",header = TRUE, sep =",")
dm=subset(dat,male==1 & age<=50); df=subset(dat,male==0 & age<=50)
attach(dm50)
reg1=lm(partner~age)
reg2=glm(partner~age, family=binomial(link="probit"))
fit2=reg2$fitted; coef2=coef(reg2)
mpe2=dnorm(qnorm(fit2,0,1),0,1)*coef2["age"]
ampe2=mean(mpe2); ampe2x=margins(reg2)
reg3=glm(partner~age, family=binomial(link="logit"))
fit3=reg3$fitted; coef3=coef(reg3)
mpe3=fit3*(1-fit3)*coef3[2]
ampe3=mean(mpe3); ampe3x=margins(reg3)
```

就業 p-273:job(1full2part0 無業),age,children(子数),yongest(末子年齢),experience(就業年数),ダミー(male,partner,undergrad,grad)

```
setwd("/dail")
install.packages("margins")
library("margins")
dat=read.table("18.csv",header = TRUE, sep =",")
dat$y=ifelse(dat$job==3,0,1)
dat$infant=ifelse(dat$yongest>=6,0,1)
dm=subset(dat,male==1 & age<=50); df=subset(dat,male==0 & age<=50)
attach(dm)
reg1=lm(y~experience+undergrad+grad+partner+infant+children)
reg2=glm(partner~experience+undergrad+grad+partner+infant+children,family=bino
mial(link="probit"))
margins(reg2)
1-(reg2$deviance/reg2$null.deviance)
reg3=glm(partner~experience+undergrad+grad+partner+infant+children,family=bino
mial(link="logit"))
margins(reg3)
1-(reg3$deviance/reg3$null.deviance)
```