

Graunt's Life Table

coop711

2015년 5월 18일

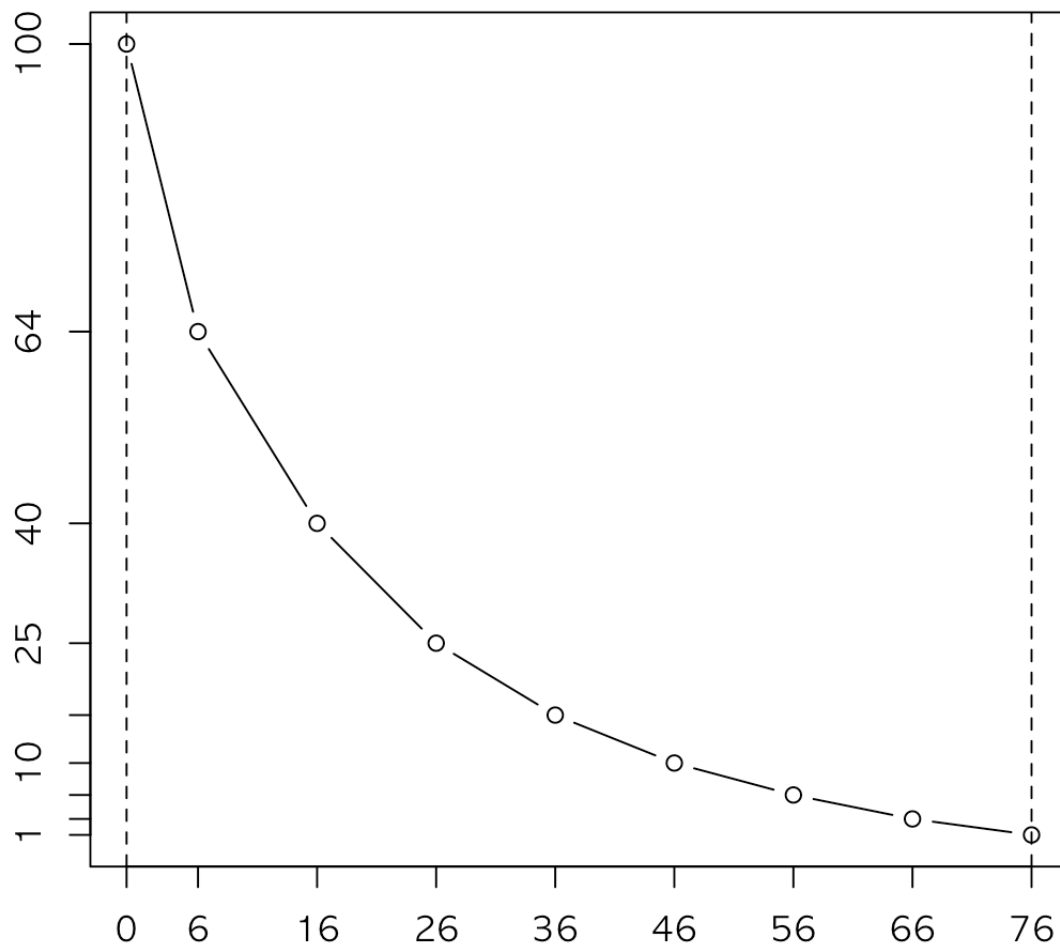
Graunt의 생명표 입력

```
graunt<-data.frame(x=c(0,6,16,26,36,46,56,66,76),lx=c(100,64,40,25,16,10,6,3,1))
graunt
```

```
##      x  lx
## 1   0 100
## 2   6  64
## 3  16  40
## 4  26  25
## 5  36  16
## 6  46  10
## 7  56   6
## 8  66   3
## 9  76   1
```

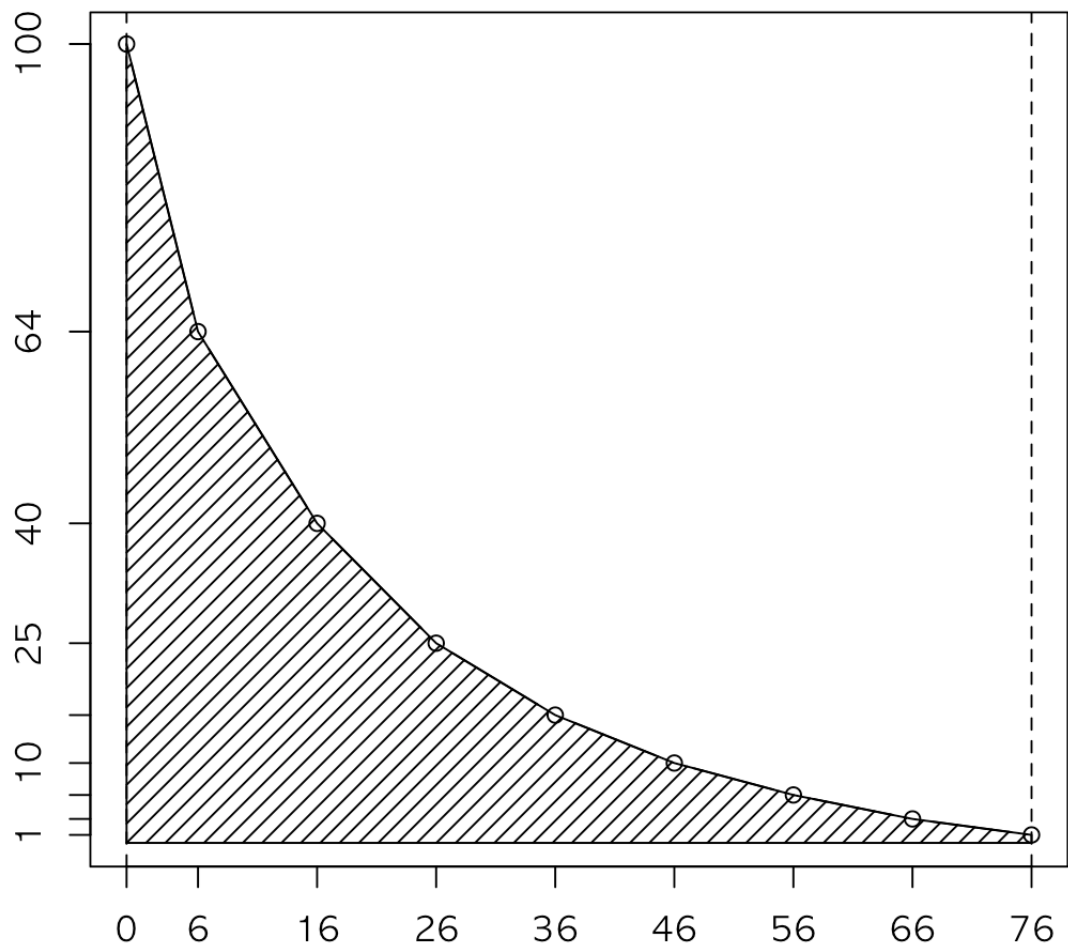
개략의 생존함수 도시

```
plot(graunt$x,graunt$lx, ann=F, xaxt="n", yaxt="n", type="b")
axis(side=1, at=graunt$x, labels=graunt$x)
axis(side=2, at=graunt$lx, labels=graunt$lx)
abline(v=c(0, 76), lty=2)
```



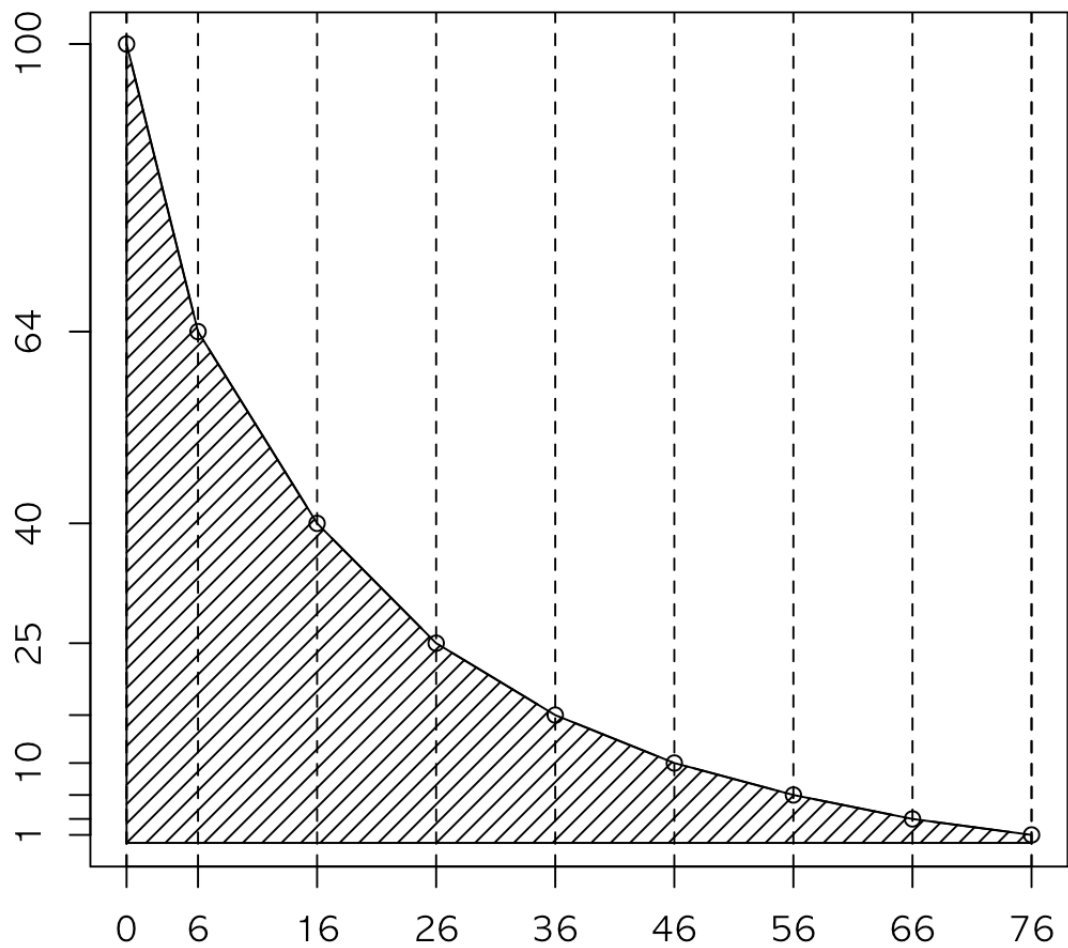
기대수명 파악이 용이하도록 빗금

```
plot(graunt$x,graunt$lx, ann=F, xaxt="n", yaxt="n", type="b")
axis(side=1, at=graunt$x, labels=graunt$x)
axis(side=2, at=graunt$lx, labels=graunt$lx)
abline(v=c(0, 76), lty=2)
graunt.x<-c(graunt$x, rev(graunt$x))
graunt.y<-c(rep(0, length(graunt$x)), rev(graunt$lx))
polygon(graunt.x,graunt.y,density=15)
```



윤곽을 파악하기 쉽도록 격자 설정

```
plot(graunt$x,graunt$lx, ann=F, xaxt="n", yaxt="n", type="b")
axis(side=1, at=graunt$x, labels=graunt$x)
axis(side=2, at=graunt$lx, labels=graunt$lx)
abline(v=c(0, 76), lty=2)
graunt.x<-c(graunt$x, rev(graunt$x))
graunt.y<-c(rep(0, length(graunt$x)), rev(graunt$lx))
polygon(graunt.x,graunt.y,density=15)
abline(v=graunt$x,lty=2)
```



메인 타이틀과 x축, y축 라벨 설정.

```
plot(graunt$x,graunt$lx, ann=F, xaxt="n", yaxt="n", type="b")
axis(side=1, at=graunt$x, labels=graunt$x)
axis(side=2, at=graunt$lx, labels=graunt$lx)
abline(v=c(0, 76), lty=2)
graunt.x<-c(graunt$x, rev(graunt$x))
graunt.y<-c(rep(0, length(graunt$x)), rev(graunt$lx))
polygon(graunt.x,graunt.y,density=15)
abline(v=graunt$x,lty=2)
title(main="John Graunt의 생존 곡선", xlab="연령(세)", ylab="생존률(%)")
```

John Graunt의 생존 곡선

