R in action

zhuang

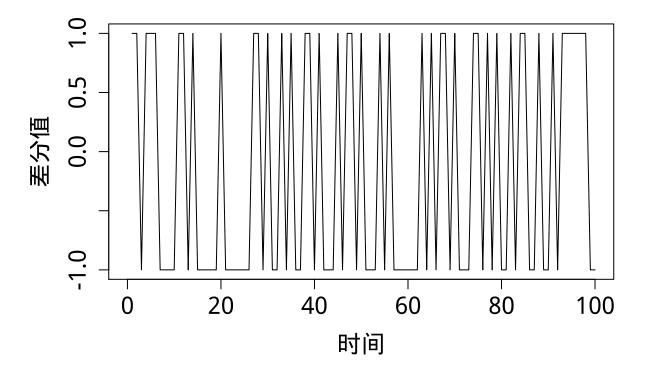
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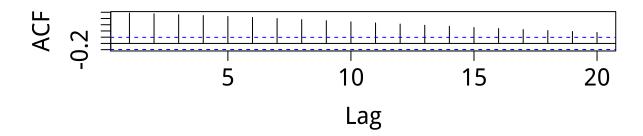
Chapter 1

```
set.seed(20)
n <- 100
p <- 0.5
u0 <- rbinom(100,1,p)
u1 <- (u0-0.5)*2
x <- c(0,cumsum(u1))
plot(diff(x),type='l',main="",xlab=" 时间",ylab=" 差分值",xlim=c(0,100),cex.axis=1.5,cex.lab=1.5)
library(TSA)
```

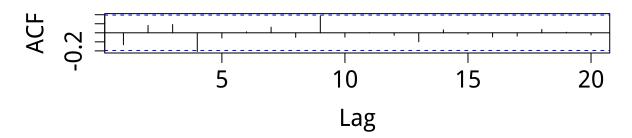


```
par(mfrow=c(2,1),cex.axis=1.5,cex.lab=1.5)
acf(x,main=" 随机游走模型")
acf(diff(x),main=" 一阶差分序列")
```

随机游走模型



一阶差分序列



```
->
-> Box-Ljung test
->
-> data: diff(x)
-> X-squared = 8.2976, df = 5, p-value = 0.1406
```

index <- ts(read.csv("shindex.csv",header = TRUE)[,2],start = c(1995,1),frequency = 12)</pre>