时间序列分析引论作业

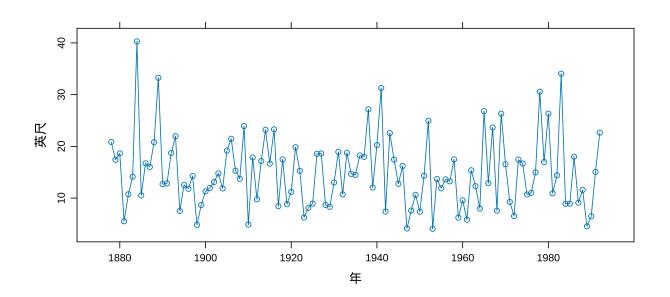
Phlinsia

2024-03-14

1.1.Larain 时间序列图

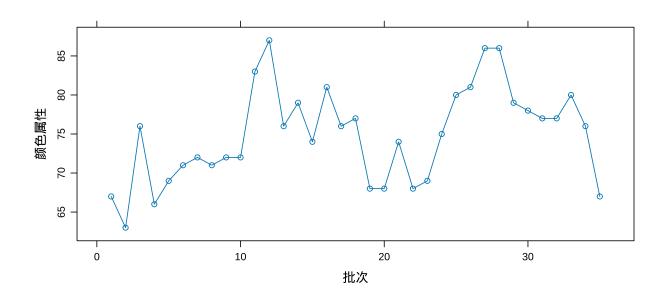
```
library(TSA)
```

```
## Warning: 程辑包'TSA'是用R版本4.3.3 来建造的
##
  载入程辑包: 'TSA'
##
## The following objects are masked from 'package:stats':
##
##
      acf, arima
## The following object is masked from 'package:utils':
##
##
      tar
library(latticeExtra)
## Warning: 程辑包'latticeExtra'是用R版本4.3.3 来建造的
## 载入需要的程辑包: lattice
data(larain, package = "TSA")
xyplot(larain, ylab = " 英尺", xlab = " 年", type = "o")
```



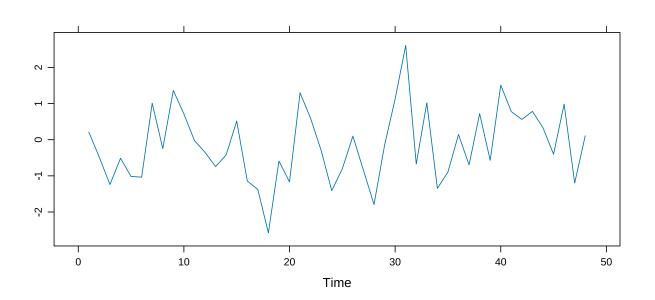
1.2.Color 时间序列图

```
data(color)
xyplot(color, ylab = " 颜色属性", xlab = " 批次", type = "o")
```

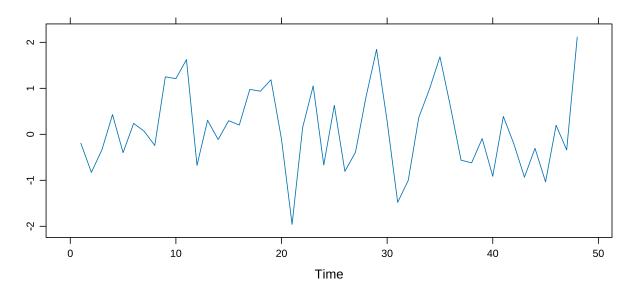


1.3. 随机独立正态分布

xyplot(as.ts(rnorm(48)))



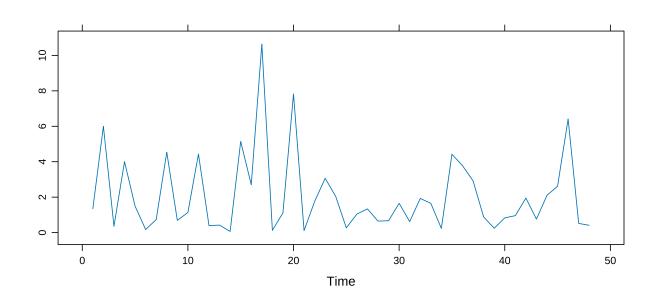
xyplot(as.ts(rnorm(48)))



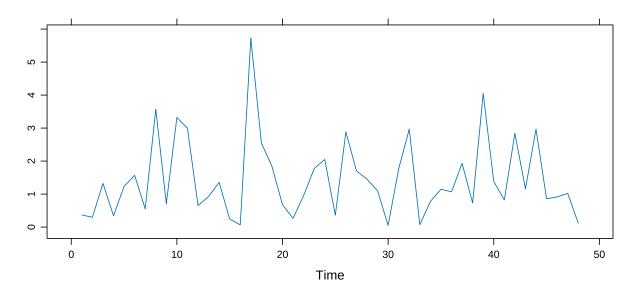
基本随机,看不出什么模式。

1.4. 随机 γ^2 分布时间序列

xyplot(as.ts(rchisq(48, 2)))



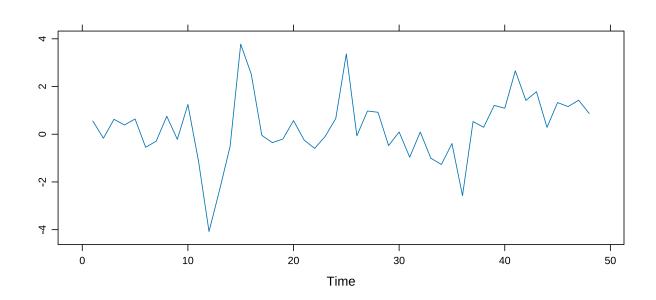
xyplot(as.ts(rchisq(48, 2)))



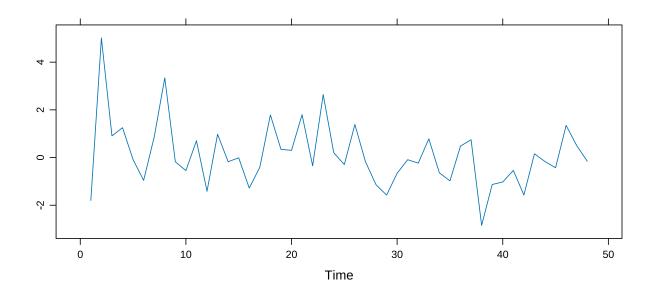
结果随机,同时符合非正态性。

1.5. 随机值 t(5) 分布

xyplot(as.ts(rt(48, 5)))



xyplot(as.ts(rt(48, 5)))



结果随机,同时符合非正态性。

1.6. 迪比克市气温序列(月度标识)

```
data(tempdub)
xyplot(tempdub ~ time(tempdub), type = 'l', ylab = '温度', xlab = '年份',
    panel = function(x, y, ...) {
        panel.xyplot(x, y, ...)
        panel.points(x, y, pch = as.vector(season(tempdub)))
})
```

