金融危機預測-HW5

魏上傑

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1 資料處理

```
library(readxl)
Crisis <- read_excel("Currency_Crisis.xlsx")

Crisis$year <- as.character(Crisis$year)
Crisis$year <- as.Date(paste(Crisis$year, "-01-01", sep = ""), origin = "1970-01-01")
# origin 指定日期起點
```

```
Crisis$Total <- rowSums(Crisis[,-1])</pre>
```

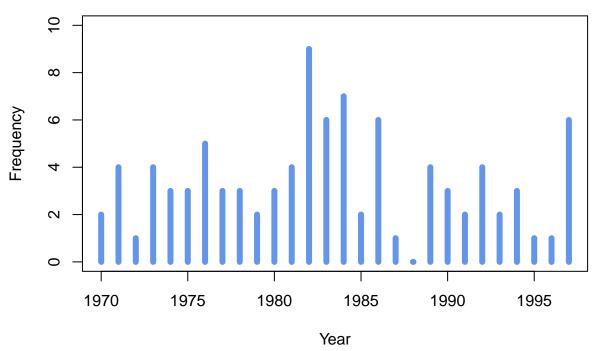
2 畫圖

3 STATA 2

```
ylim = c(0,10))

mtext("Source:Goldstein, Kaminsky, and Reinhart (2000)",side=1, line=4, cex=0.8, adj=0)
```

Distribution of Currency Crises over Year



Source: Goldstein, Kaminsky, and Reinhart (2000)

mtext()函數在底部增加註釋, side 參數設置為 1,表示在底部增加文本, line 參數設置為 4,表示在底部第四行增加文本, cex 參數指定文本的字體大小。然後,我們使用 adj 參數將文本對齊到左側,將其設置為 0。

如果要將文本靠右對齊,可以將 adj 參數設置為 1。如果要將文本置中對齊,可以將 adj 參數設置 為 0.5。

3 STATA

```
library(Statamarkdown, quietly=TRUE)
```

Stata found at /Applications/Stata/StataSE.app/Contents/MacOS/StataSE

The 'stata' engine is ready to use.

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clear

cd "~/Desktop/Financial_Crisis/HW5/STATA"

import excel "GoldsteinKaminskyReinhartCurrencyCrises.xlsx",firstrow

* check the imported data

describe

summarize

/Users/weishangjie/Desktop/Financial_Crisis/HW5/STATA

Contains data

obs: 94 vars: 4 size: 4,418

variable name type format label variable label

Country str14 %14s Country

Month str9 %9s Month

Year int %10.0g Year
Region str22 %22s Region

Sorted by:

Note: Dataset has changed since last saved.

Variable	1	0bs	Mean	Std. Dev.	Min	Max
Country	-+ 	0				
Month	1	0				
Year	1	94	1983.149	7.52052	1970	1997
Region	1	0				

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```
clear

cd "-/Desktop/Financial_Crisis/HW5/STATA"

import excel "GoldsteinKaminskyReinhartCurrencyCrises.xlsx",firstrow

* label variables
label variable Country "Coutry"
label variable Month "Month"
label variable Year "Year"
label variable Region "Region"

* distribution over year
egen maxY=max(Year)
egen minY=min(Year)
gen span=maxY-minY

twoway histogram Year, bin(`=span') frequency subtitle("Distribution of Crises over Year".
```

/Users/weishangjie/Desktop/Financial_Crisis/HW5/STATA