COVID Analysis

```r
library(maps)
```

```
## Warning: package 'maps' was built under R version 4.0.5
```

```r
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --
```

```
## v ggplot2 3.3.2     v purrr   0.3.4
## v tibble  3.0.4     v dplyr   1.0.2
## v tidyr   1.1.2     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.0
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## x purrr::map()    masks maps::map()
```

```r
#confirmed cases worldwide
confirmed_cases_worldwide = read.csv('confirmed_cases_worldwide.csv')
ggplot(data = confirmed_cases_worldwide) +
  aes(x = as.Date(date), y = cum_cases, color = 'orange') +
  geom_point() + geom_line()
```

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## 'mbcsToSbcs'Àïׯ»'2æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## 'mbcsToSbcs'Àïׯ»'3æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

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## 'mbcsToSbcs'Àïׯ»'3æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 15'³ö´í£º<88>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ01'³ö´í£º<9c>´úÌæÁËdot

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ01'³ö´í£º<e6>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª»»'2æœˆ15'³ö´í£º<e6>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 15'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 15'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 15'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 01'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 01'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 01'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 15'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 15'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 15'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 01'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 01'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 01'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 15'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 15'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'3æœ^ 15'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 01'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 01'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת»»'2æœ^ 01'³ö´í£º<88>´úÌæÁËdot
```
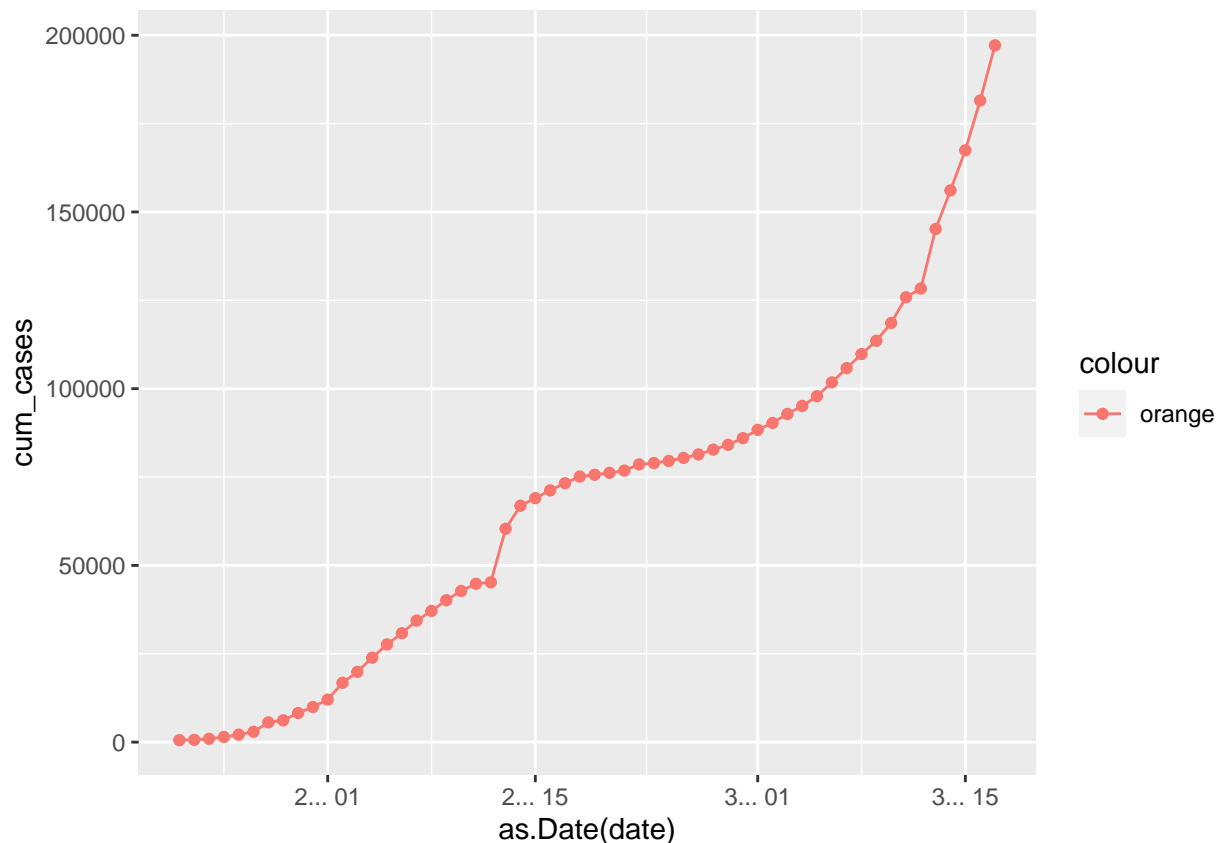
```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'2æœˆ 15'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'2æœˆ 15'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'2æœˆ 15'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'3æœˆ 01'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'3æœˆ 01'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'3æœˆ 01'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'3æœˆ 15'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺≫'3æœˆ 15'³öˊí£º<88>ˊúÌæÁËdot
```

```r
#confirmed cases China
confirmed_cases_china = read.csv('confirmed_cases_china_vs_world.csv')
ggplot(data = confirmed_cases_china) +
  aes(x = as.Date(date), y = cum_cases, color = is_china) +
  geom_point() + geom_line()
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 01'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 01'³ö´í£º<9c>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 01'³ö´í£º<88>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 15'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 15'³ö´í£º<9c>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 15'³ö´í£º<88>´úÌæÁËdot
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```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'3æœˆ 01'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot
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```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'3æœˆ 01'³ö´í£º<88>´úÌæÁËdot
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'3æœˆ 15'³ö´í£º<e6>´úÌæÁËdot
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```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'3æœˆ 15'³ö´í£º<9c>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'3æœˆ 15'³ö´í£º<88>´úÌæÁËdot
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```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 01'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 01'³ö´í£º<9c>´úÌæÁËdot
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```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï׺»»'2æœˆ 01'³ö´í£º<88>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 01'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïײ»»'3æœ^ 01'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïײ»»'3æœ^ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïײ»»'3æœ^ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïײ»»'3æœ^ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 15'³öˊí£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 01'³öˊí£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 01'³öˊí£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 01'³öˊí£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 15'³öˊí£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 15'³öˊí£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 15'³öˊí£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 01'³öˊí£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 01'³öˊí£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 01'³öˊí£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 15'³öˊí£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 15'³öˊí£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 15'³öˊí£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 01'³öˊí£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 01'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœˆ 01'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœˆ 15'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 01'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 01'³ö´í£º<9c>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª≫'3æœˆ 01'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 15'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 15'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 15'³ö´í£º<88>´úÌæÁËdot
```
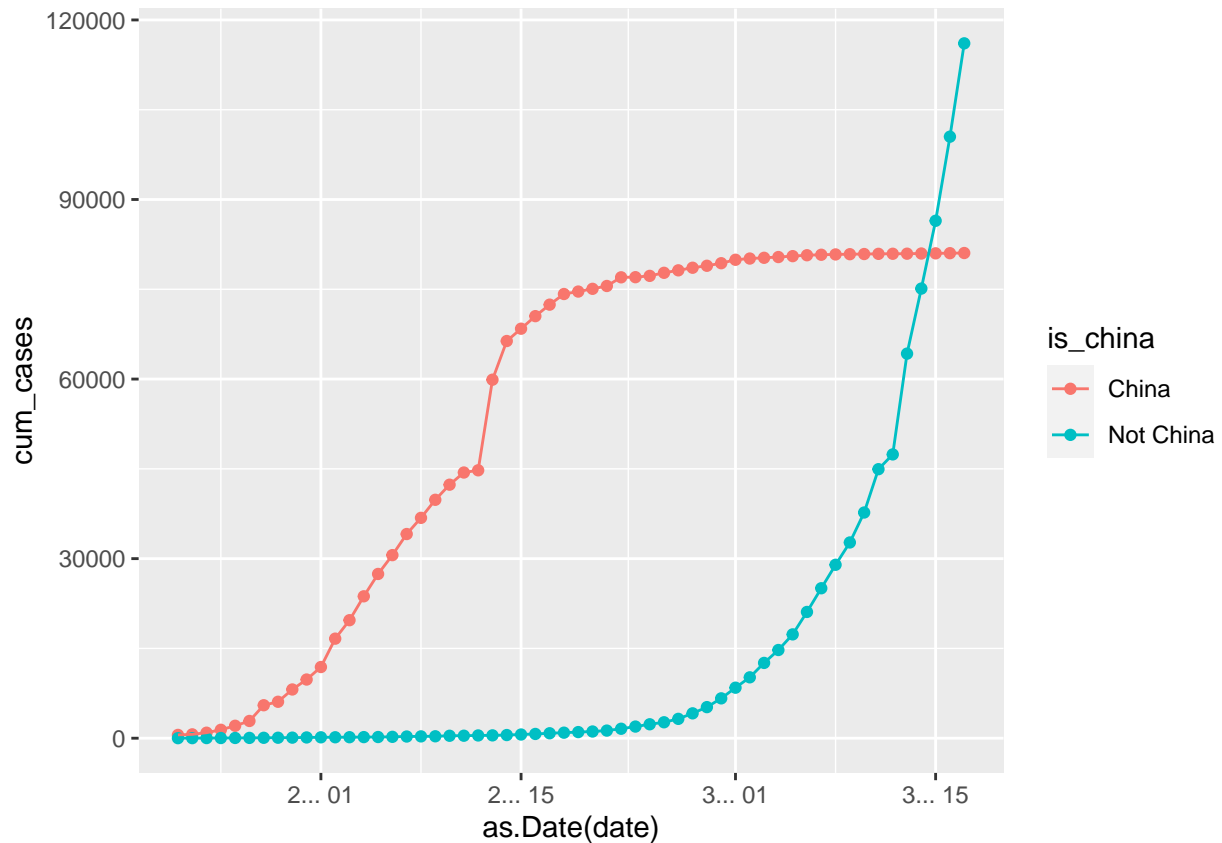
```
confirmed_cases_china$date <- as.Date(confirmed_cases_china$date, format= "%Y-%m-%d")
confirmed_cases_china_feb15 = subset(confirmed_cases_china, date> "2020-02-14")
ggplot(data = confirmed_cases_china_feb15) +
  aes(x = as.Date(date), y = cum_cases, color = is_china) +
  geom_point() + geom_line()
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<88>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 02'³öˊí£º<e6>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 02'³öˊí£º<9c>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 02'³öˊí£º<88>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 09'³öˊí£º<e6>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 09'³öˊí£º<9c>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 09'³öˊí£º<88>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 16'³öˊí£º<e6>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 16'³öˊí£º<9c>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 16'³öˊí£º<88>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 17'³öˊí£º<e6>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 17'³öˊí£º<9c>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 17'³öˊí£º<88>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 24'³öˊí£º<e6>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 24'³öˊí£º<9c>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'2æœˆ 24'³öˊí£º<88>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 02'³öˊí£º<e6>ˊúÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»'3æœˆ 02'³öˊí£º<9c>ˊúÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 02'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 09'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 09'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 09'³öˊí£º<88>ˊúÌæÁËdot

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 16'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 16'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'2æœˆ 17'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'2æœˆ 17'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'2æœˆ 17'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'2æœˆ 24'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'2æœˆ 24'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'2æœˆ 24'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 02'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 02'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 02'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»›'3æœˆ 09'³öˊí£º<e6>ˊúÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09''ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09''ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16''ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16''ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16''ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17''ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17''ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24''ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24''ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02''ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02''ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02''ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09''ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09''ö´í£º<9c>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09''ö´í£º<88>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 16'³ö´í£º<9c>´úÌæÁËdot
```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<9c>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<88>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<9c>´úÌæÁËdot


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## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<88>´úÌæÁËdot


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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<e6>´úÌæÁËdot
```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»’3æœˆ 02’³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»’3æœˆ 09’³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»’3æœˆ 09’³öˊí£º<9c>ˊúÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 09'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 16'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 16'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 16'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœ^ 17'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœ^ 17'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœ^ 17'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœ^ 24'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœ^ 24'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'2æœ^ 24'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 02'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 02'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 02'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœ^ 09'³ö´í£º<e6>´úÌæÁËdot

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## 'mbcsToSbcs'Àï×ª≫'3æœ^ 16'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<9c>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<88>´úÌæÁËdot
```
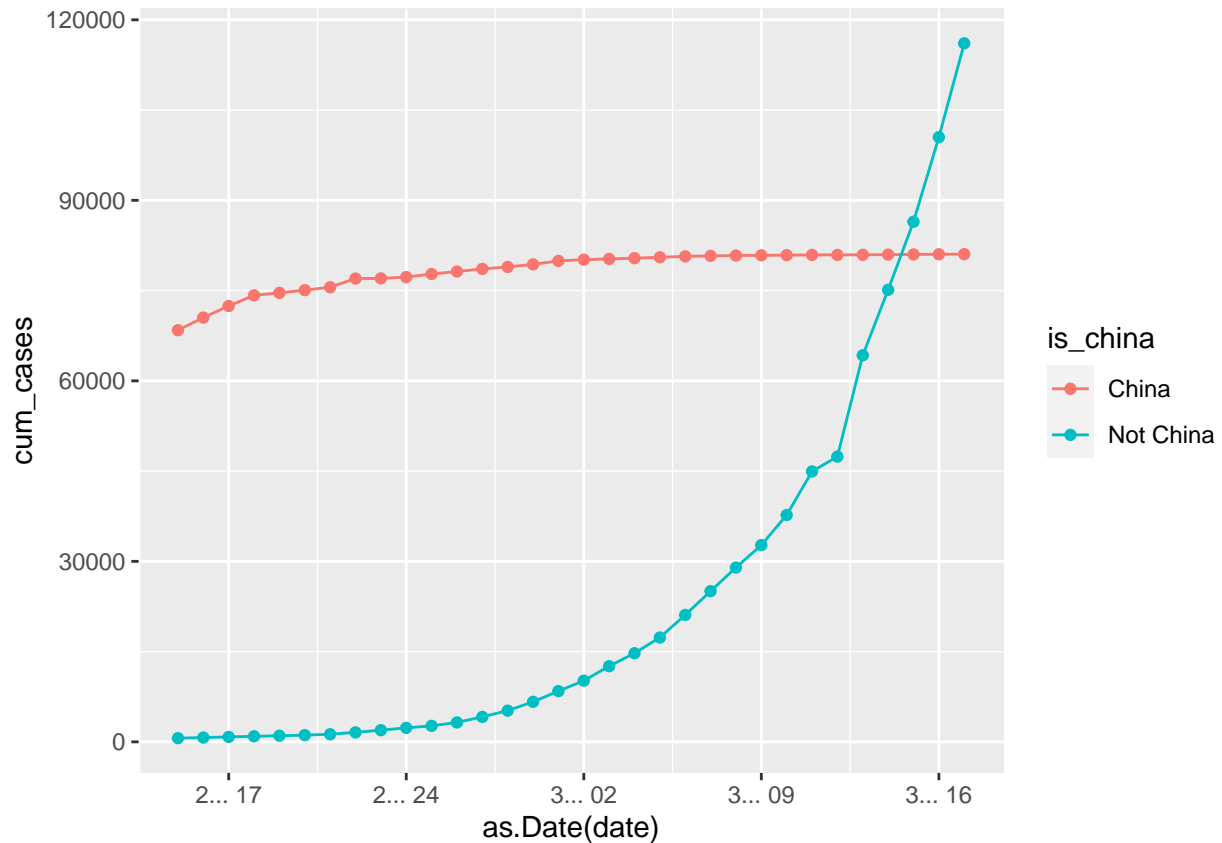
```
#confirmed cases out of China
confirmed_cases_top7_outofchina = read.csv('confirmed_cases_top7_outside_china.csv')
top_countries_by_total_cases = confirmed_cases_top7_outofchina%>%
  group_by(country)%>%
  summarise(sum = sum(cum_cases))
```

`summarise()` ungrouping output (override with `.groups` argument)

```
final = confirmed_cases_top7_outofchina%>%
  group_by(country, date)%>%
  summarise(sum=sum(cum_cases))
```

`summarise()` regrouping output by 'country' (override with `.groups` argument)

```
ggplot(data = final) +
  aes(x = as.Date(date), y = sum, color = country) +
  geom_point() + geom_line()
```

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º´úÌæÁËdot

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º´úÌæÁËdot

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'2æœˆ 17'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'2æœˆ 24'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'2æœˆ 24'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'2æœˆ 24'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 02'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 02'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 02'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 09'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 09'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 09'³öˊí£º<88>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 16'³öˊí£º<e6>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 16'³öˊí£º<9c>ˊúÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'3æœˆ 16'³öˊí£º<88>ˊúÌæÁËdot

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## 'mbcsToSbcs'Àïׯ»»'2æœˆ 17'³öˊí£º<e6>ˊúÌæÁËdot

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïׯ»»'2æœˆ 24'³öˊí£º<e6>ˊúÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³öˊí£º<e6>ˊúÌæÁËdot


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## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³öˊí£º<9c>ˊúÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 24'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 02'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09'³ö´í£º<e6>´úÌæÁËdot
```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת≫’3æœ^ 09’³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àïת≫’3æœ^ 16’³ö´í£º<e6>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª»»'2æœˆ 17'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœˆ 24'³ö´í£º<e6>´úÌæÁËdot

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 02'³ö´í£º<e6>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 02'³ö´í£º<9c>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 09'³ö´í£º<e6>´úÌæÁËdot

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª≫'3æœˆ 09'³ö´í£º<9c>´úÌæÁËdot

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## 'mbcsToSbcs'Àï×ª≫'3æœˆ 02'³ö´í£º<88>´úÌæÁËdot
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'2æœ^ 17'³ö´í£º<e6>´úÌæÁËdot


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœ^ 09'³ö´í£º<9c>´úÌæÁËdot
```
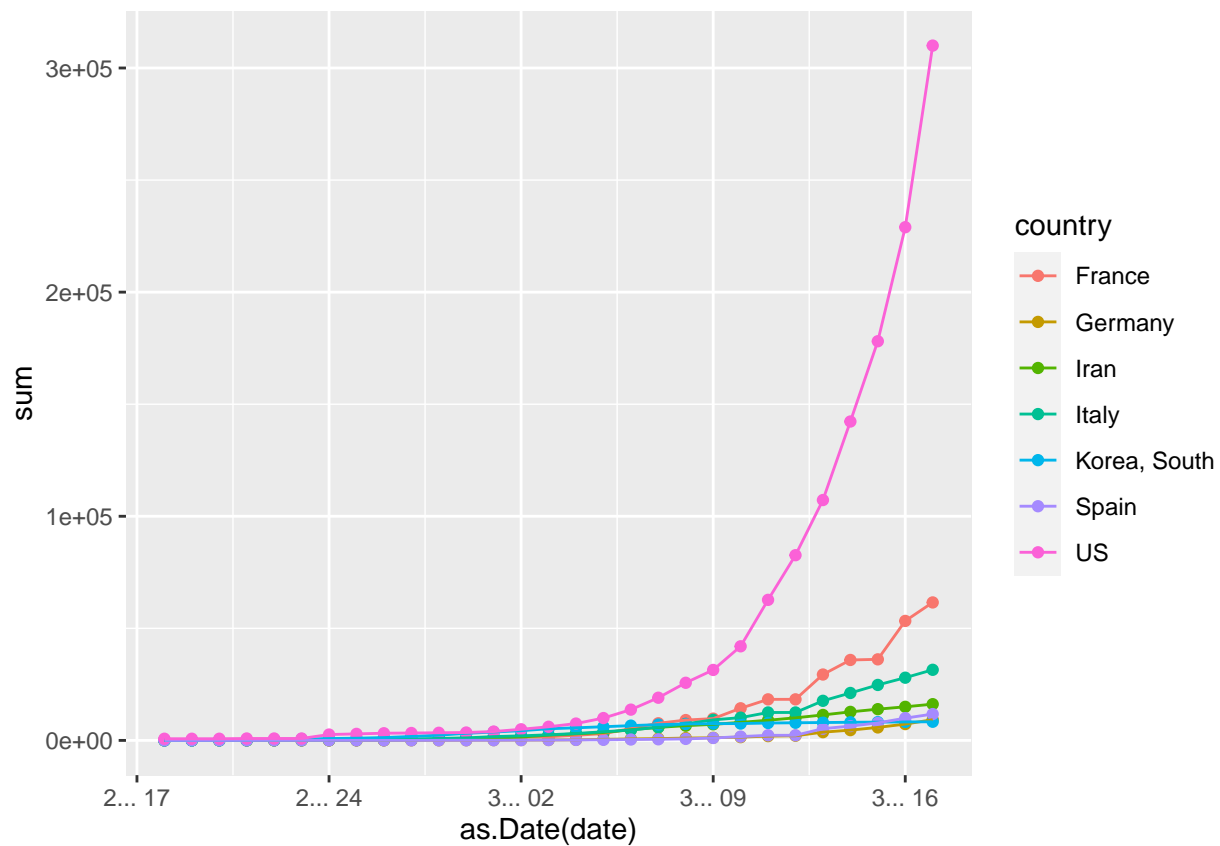
```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'Àï×ª»»'3æœˆ 09'³ö´í£º<88>´úÌæÁËdot

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## 'mbcsToSbcs'Àï×ª»»'3æœˆ 16'³ö´í£º<88>´úÌæÁËdot
```



```r
#confirmed cases China
coronavirus = read.csv('coronavirus_dataset.csv')
coronavirus = coronavirus %>%
  select(Country.Region, cases) %>%
  group_by(Country.Region) %>%
  summarise(cases=sum(cases))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```r
names(coronavirus)[1] <- "region"

world_map <- map_data("world")
```

```
coro = left_join(coronavirus, world_map, by = 'region')

ggplot(coro, aes(long, lat, group = group))+
  geom_polygon(aes(fill = cases), color = "white")+
  scale_fill_viridis_c()
```