R ではじめるデータ□サイエンス

氏名（Name）

Last Updated: 2023-03-06

Posit (RStudio) Cloud での演習 RNotebook ファイルを新規作成し、このページを、全選択して、コピー□ペーストします。Save As ... または、フロッピーディスクマークをおして、ds-edu などとして保存。説明を読みながら、コードチャンクと言われる、色が変わっている、の右上にある三角印を押すと、実行されます。

Posit Cloud ログイン

Posit Cloud (https://posit.cloud/) のアカウントを作成して、ログインした状態から始めます。

無論 RStudio で R を利用できる方は、ほとんど同じですが、Posit Cloud には、ファイルや、データも入っていますので、そのまま活用することが可能です。

RStudio での、動作不良の場合の対応は省略させていただきます。できれば、上のメニューの File から、New Project を選択して、Project を作って、そこで作業をされることをお勧めします。

問題がある時は、下のサイトを参照してください。Posit Cloud についても、多少の説明が書いてあります。

https://icu-hsuzuki.github.io/ds4aj/ronrstudio.html

右上の New Project を選択して、始めることが普通ですが、本日は、

このリンクにアクセスしていただき、Save a Permanent Copy を選択してくださると、そのなかで、自分のプロジェクトとして、実行することが可能になります。

https://posit.cloud/content/5539763

基本コマンド - in Console

下のコマンドを左下の窓枠 (Pane) に入れてみてください。

- `head(cars)`
- `str(cars)`
- `summary(cars)`
- `df <- cars`
  - `<-` と `_` と `%>%` と ` back tick の確認

- `head(df)`
- `plot(df)`
- View(cars) または、右上の Environment から、`df_cars` をクリック
- `?cars` または Help 検索窓で `cars`, `head` など

```
head(cars)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
## 4     7   22
## 5     8   16
## 6     9   10
```

```
str(cars)
```

```
## 'data.frame':    50 obs. of  2 variables:
##  $ speed: num  4 4 7 7 8 9 10 10 10 11 ...
##  $ dist : num  2 10 4 22 16 10 18 26 34 17 ...
```

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```
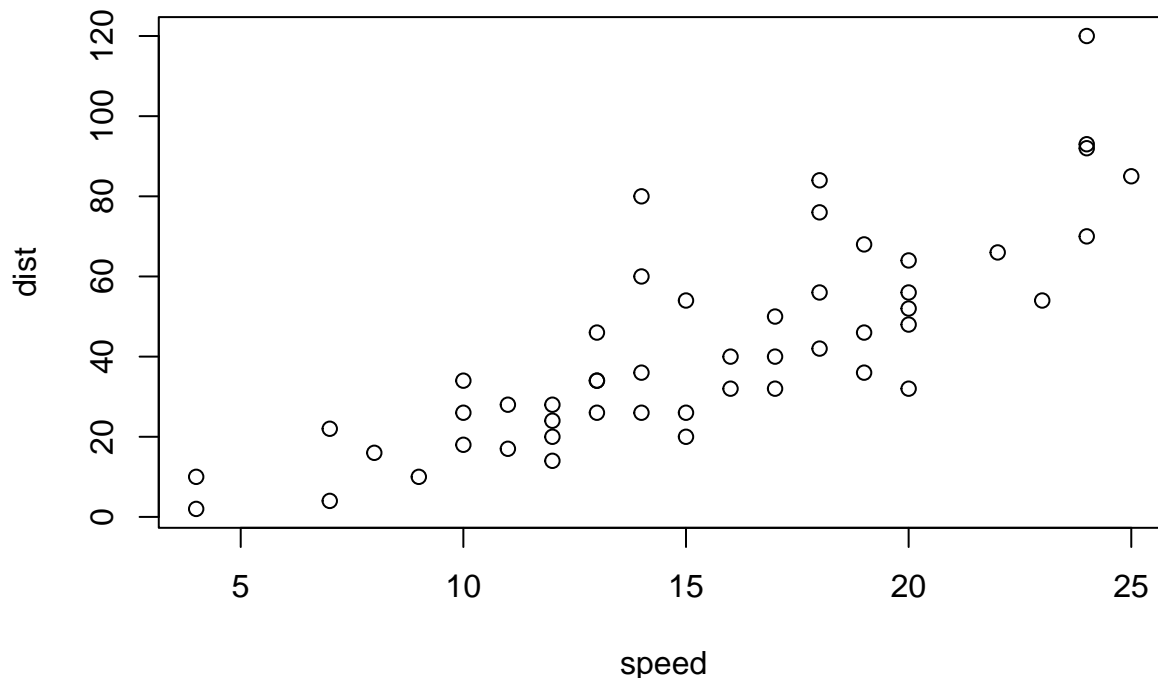
```
df <- cars
```

```
head(df)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
## 4     7   22
## 5     8   16
## 6     9   10
```

```
plot(df)
```

dist

speed

おすすめ: `Sys.setenv(LANG = "en")`

Package の確認とインストール

R パッケージは、R の拡張機能で、コード、データ、ドキュメントを標準化されたコレクション形式で含んでおり、標準的なものは、R Studio の Top Bar の Tool > Install Packages からインストールできます。

- 次の三つをインストールします: `tidyverse`, `rmarkdown`, `WDI`
- Tools から Install packages を選び、一つ一つ入れていくと、install できます。少し時間がかかります。

R Markdown 入門

R Notebook

R Markdown はデータサイエンスのためのオーサリングフレームワーク。

コード（プログラム）とその実行結果、を記録□表示し、高品質のレポートの作成を可能にします。

R Notebook は、独立してインタラクティブに実行できるチャンクを持つ R Markdown ドキュメントの一つの形式で、入力のすぐ下に出力が表示することができます。

1. File > New File > R Notebook
2. Save with a file name, say, test-notebook
3. Preview by [Preview] button
4. Run Code Chunk plot(cars) and then Preview again.

- テンプレートファイルの利用

下のリンクを開き、全部を選択し、R Notebook ファイルも全選択して貼り付ければ、日本版も見ることができます。

- 日本語ノートブック: https://ds-sl.github.io/intro2r/RNotebook-J.html
- いろいろな形式の出力: https://ds-sl.github.io/intro2r/Rmarkdown-J.html

intro2rj.Rmd

右下の File タブから、`intro2rj.Rmd` を開きます。Preview の右のギアマークの Preview in Viewer Pane を選択してから、Preview ボタンを押すと、内容を確認することができます。

あとから使うので、ロードしておきます。最初に次のようなコードを実行します。右の三角を押します。

Posit Cloud のサイトには、`data` ディレクトリ（フォルダ）が作成されていますが、

```
dir.create("./data")
```

```
library(tidyverse)
```

```
## -- Attaching packages ------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.4.1      v purrr   1.0.1
## v tibble  3.1.8      v dplyr   1.1.0
## v tidyr   1.3.0      v stringr 1.5.0
## v readr   2.1.4      v forcats 1.0.0
## -- Conflicts ---------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(WDI)
```

世界開発指標 (WDI)

次のコードは、国別に、GDP の大きい方から並べたものです。

```
WDI(country = "all", indicator = c(gdp = "NY.GDP.MKTP.CD"),
    extra=TRUE) %>% drop_na(gdp) %>%
  filter(year==max(year), income !="Aggregates") %>%
  drop_na(region) %>% arrange(desc(gdp))
```

```
##                    country iso2c iso3c year          gdp status
## 1            United States    US   USA 2021 2.331508e+13
## 2                    China    CN   CHN 2021 1.773406e+13
## 3                    Japan    JP   JPN 2021 4.940878e+12
## 4                  Germany    DE   DEU 2021 4.259935e+12
```

```
## 5              India    IN   IND 2021 3.176295e+12
## 6     United Kingdom    GB   GBR 2021 3.131378e+12
## 7             France    FR   FRA 2021 2.957880e+12
## 8              Italy    IT   ITA 2021 2.107703e+12
## 9             Canada    CA   CAN 2021 1.988336e+12
## 10       Korea, Rep.    KR   KOR 2021 1.810956e+12
## 11 Russian Federation  RU   RUS 2021 1.778783e+12
## 12            Brazil    BR   BRA 2021 1.608981e+12
## 13         Australia    AU   AUS 2021 1.552667e+12
## 14             Spain    ES   ESP 2021 1.427381e+12
## 15            Mexico    MX   MEX 2021 1.272839e+12
## 16         Indonesia    ID   IDN 2021 1.186093e+12
## 17       Netherlands    NL   NLD 2021 1.012847e+12
## 18      Saudi Arabia    SA   SAU 2021 8.335412e+11
## 19           Turkiye    TR   TUR 2021 8.190352e+11
## 20       Switzerland    CH   CHE 2021 8.006402e+11
## 21            Poland    PL   POL 2021 6.794448e+11
## 22            Sweden    SE   SWE 2021 6.356638e+11
## 23           Belgium    BE   BEL 2021 5.941042e+11
## 24          Thailand    TH   THA 2021 5.059470e+11
## 25           Ireland    IE   IRL 2021 5.041826e+11
## 26            Israel    IL   ISR 2021 4.885265e+11
## 27         Argentina    AR   ARG 2021 4.872273e+11
## 28            Norway    NO   NOR 2021 4.821749e+11
## 29           Austria    AT   AUT 2021 4.803684e+11
## 30           Nigeria    NG   NGA 2021 4.408336e+11
## 31      South Africa    ZA   ZAF 2021 4.190150e+11
## 32        Bangladesh    BD   BGD 2021 4.162649e+11
## 33 United Arab Emirates AE  ARE 2021 4.150216e+11
## 34   Egypt, Arab Rep.  EG   EGY 2021 4.041428e+11
## 35           Denmark    DK   DNK 2021 3.983033e+11
## 36         Singapore    SG   SGP 2021 3.969869e+11
## 37       Philippines    PH   PHL 2021 3.940864e+11
## 38          Malaysia    MY   MYS 2021 3.729810e+11
## 39 Hong Kong SAR, China HK  HKG 2021 3.691764e+11
## 40           Vietnam    VN   VNM 2021 3.661376e+11
## 41 Iran, Islamic Rep.  IR   IRN 2021 3.597132e+11
## 42          Pakistan    PK   PAK 2021 3.482625e+11
## 43             Chile    CL   CHL 2021 3.170585e+11
```

```
## 44                Colombia  CO   COL 2021 3.144641e+11
## 45                 Finland  FI   FIN 2021 2.973019e+11
## 46                 Romania  RO   ROU 2021 2.840876e+11
## 47                Portugal  PT   PRT 2021 2.536631e+11
## 48             New Zealand  NZ   NZL 2021 2.498857e+11
## 49                    Peru  PE   PER 2021 2.232495e+11
## 50                  Greece  GR   GRC 2021 2.148739e+11
## 51                    Iraq  IQ   IRQ 2021 2.078893e+11
## 52                 Ukraine  UA   UKR 2021 2.000855e+11
## 53              Kazakhstan  KZ   KAZ 2021 1.971123e+11
## 54                 Hungary  HU   HUN 2021 1.818480e+11
## 55                   Qatar  QA   QAT 2021 1.796772e+11
## 56                 Algeria  DZ   DZA 2021 1.630444e+11
## 57                 Morocco  MA   MAR 2021 1.428663e+11
## 58         Slovak Republic  SK   SVK 2021 1.165271e+11
## 59                Ethiopia  ET   ETH 2021 1.112711e+11
## 60                   Kenya  KE   KEN 2021 1.103471e+11
## 61             Puerto Rico  PR   PRI 2021 1.065257e+11
## 62                 Ecuador  EC   ECU 2021 1.061659e+11
## 63      Dominican Republic  DO   DOM 2021 9.424345e+10
## 64               Sri Lanka  LK   LKA 2021 8.892726e+10
## 65                    Oman  OM   OMN 2021 8.819198e+10
## 66               Guatemala  GT   GTM 2021 8.598575e+10
## 67              Luxembourg  LU   LUX 2021 8.550624e+10
## 68                Bulgaria  BG   BGR 2021 8.405631e+10
## 69                   Ghana  GH   GHA 2021 7.759428e+10
## 70           Cote d'Ivoire  CI   CIV 2021 7.004319e+10
## 71              Uzbekistan  UZ   UZB 2021 6.923890e+10
## 72                 Croatia  HR   HRV 2021 6.895508e+10
## 73                 Belarus  BY   BLR 2021 6.820538e+10
## 74                Tanzania  TZ   TZA 2021 6.784105e+10
## 75                  Angola  AO   AGO 2021 6.740429e+10
## 76               Lithuania  LT   LTU 2021 6.644526e+10
## 77                 Myanmar  MM   MMR 2021 6.509175e+10
## 78              Costa Rica  CR   CRI 2021 6.428244e+10
## 79                  Panama  PA   PAN 2021 6.360510e+10
## 80                  Serbia  RS   SRB 2021 6.308205e+10
## 81                Slovenia  SI   SVN 2021 6.174859e+10
## 82                 Uruguay  UY   URY 2021 5.931948e+10
```

```
## 83          Congo, Dem. Rep.  CD  COD 2021 5.535097e+10
## 84                 Azerbaijan  AZ  AZE 2021 5.462218e+10
## 85                    Tunisia  TN  TUN 2021 4.668674e+10
## 86                     Jordan  JO  JOR 2021 4.574427e+10
## 87                   Cameroon  CM  CMR 2021 4.533828e+10
## 88                      Libya  LY  LBY 2021 4.281747e+10
## 89                     Uganda  UG  UGA 2021 4.052979e+10
## 90                    Bolivia  BO  BOL 2021 4.040821e+10
## 91                     Latvia  LV  LVA 2021 3.985350e+10
## 92                   Paraguay  PY  PRY 2021 3.949543e+10
## 93                    Bahrain  BH  BHR 2021 3.886866e+10
## 94                    Estonia  EE  EST 2021 3.719117e+10
## 95                      Nepal  NP  NPL 2021 3.628883e+10
## 96                      Sudan  SD  SDN 2021 3.432606e+10
## 97           Macao SAR, China  MO  MAC 2021 3.012391e+10
## 98                El Salvador  SV  SLV 2021 2.873694e+10
## 99                   Honduras  HN  HND 2021 2.848867e+10
## 100                    Cyprus  CY  CYP 2021 2.840787e+10
## 101                  Zimbabwe  ZW  ZWE 2021 2.837124e+10
## 102                   Senegal  SN  SEN 2021 2.762539e+10
## 103                  Cambodia  KH  KHM 2021 2.696106e+10
## 104          Papua New Guinea  PG  PNG 2021 2.659431e+10
## 105                   Iceland  IS  ISL 2021 2.560242e+10
## 106       Trinidad and Tobago  TT  TTO 2021 2.446020e+10
## 107    Bosnia and Herzegovina  BA  BIH 2021 2.336536e+10
## 108                   Lebanon  LB  LBN 2021 2.313194e+10
## 109                    Zambia  ZM  ZMB 2021 2.214763e+10
## 110                     Haiti  HT  HTI 2021 2.094439e+10
## 111                     Gabon  GA  GAB 2021 2.021684e+10
## 112              Burkina Faso  BF  BFA 2021 1.973762e+10
## 113                      Mali  ML  MLI 2021 1.914046e+10
## 114                   Lao PDR  LA  LAO 2021 1.882715e+10
## 115                   Georgia  GE  GEO 2021 1.862937e+10
## 116                   Albania  AL  ALB 2021 1.825579e+10
## 117         West Bank and Gaza  PS  PSE 2021 1.803680e+10
## 118                  Botswana  BW  BWA 2021 1.761479e+10
## 119                     Malta  MT  MLT 2021 1.736404e+10
## 120                     Benin  BJ  BEN 2021 1.714492e+10
## 121                    Guinea  GN  GIN 2021 1.609182e+10
```

```
## 122               Mozambique   MZ   MOZ 2021 1.577676e+10
## 123                 Mongolia   MN   MNG 2021 1.528644e+10
## 124                    Niger   NE   NER 2021 1.491500e+10
## 125              Afghanistan   AF   AFG 2021 1.478686e+10
## 126                  Jamaica   JM   JAM 2021 1.465759e+10
## 127               Madagascar   MG   MDG 2021 1.447260e+10
## 128                Nicaragua   NI   NIC 2021 1.401302e+10
## 129        Brunei Darussalam   BN   BRN 2021 1.400657e+10
## 130                  Armenia   AM   ARM 2021 1.386141e+10
## 131          North Macedonia   MK   MKD 2021 1.382505e+10
## 132                  Moldova   MD   MDA 2021 1.367922e+10
## 133              Congo, Rep.   CG   COG 2021 1.336623e+10
## 134                   Malawi   MW   MWI 2021 1.262672e+10
## 135                  Namibia   NA   NAM 2021 1.231060e+10
## 136        Equatorial Guinea   GQ   GNQ 2021 1.226939e+10
## 137                     Chad   TD   TCD 2021 1.177998e+10
## 138                Mauritius   MU   MUS 2021 1.152904e+10
## 139              Bahamas, The   BS   BHS 2021 1.120860e+10
## 140                   Rwanda   RW   RWA 2021 1.107036e+10
## 141            New Caledonia   NC   NCL 2021 1.007135e+10
## 142               Mauritania   MR   MRT 2021 9.996250e+09
## 143                   Kosovo   XK   XKX 2021 9.412034e+09
## 144               Tajikistan   TJ   TJK 2021 8.746271e+09
## 145                   Monaco   MC   MCO 2021 8.596097e+09
## 146          Kyrgyz Republic   KG   KGZ 2021 8.543424e+09
## 147                     Togo   TG   TGO 2021 8.413201e+09
## 148                   Guyana   GY   GUY 2021 8.044499e+09
## 149                  Somalia   SO   SOM 2021 7.628000e+09
## 150                  Bermuda   BM   BMU 2021 7.286607e+09
## 151                     Guam   GU   GUM 2021 6.123000e+09
## 152          French Polynesia   PF   PYF 2021 6.054677e+09
## 153            Cayman Islands   KY   CYM 2021 5.898450e+09
## 154               Montenegro   ME   MNE 2021 5.861268e+09
## 155                 Maldives   MV   MDV 2021 5.405576e+09
## 156                 Barbados   BB   BRB 2021 4.843800e+09
## 157                 Eswatini   SZ   SWZ 2021 4.743335e+09
## 158                     Fiji   FJ   FJI 2021 4.296305e+09
## 159             Sierra Leone   SL   SLE 2021 4.042238e+09
## 160            Faroe Islands   FO   FRO 2021 3.649886e+09
```

```
## 161                 Timor-Leste   TL   TLS 2021 3.621222e+09
## 162                     Liberia   LR   LBR 2021 3.509000e+09
## 163                    Djibouti   DJ   DJI 2021 3.482987e+09
## 164                     Andorra   AD   AND 2021 3.330282e+09
## 165                       Aruba   AW   ABW 2021 3.126019e+09
## 166                    Suriname   SR   SUR 2021 2.984706e+09
## 167                     Burundi   BI   BDI 2021 2.779813e+09
## 168                     Curacao   CW   CUW 2021 2.699612e+09
## 169                      Bhutan   BT   BTN 2021 2.539553e+09
## 170    Central African Republic   CF   CAF 2021 2.516498e+09
## 171                     Lesotho   LS   LSO 2021 2.496135e+09
## 172                      Belize   BZ   BLZ 2021 2.491500e+09
## 173                  Gambia, The   GM   GMB 2021 2.038417e+09
## 174                   Cabo Verde   CV   CPV 2021 1.936174e+09
## 175                    St. Lucia   LC   LCA 2021 1.691275e+09
## 176                Guinea-Bissau   GW   GNB 2021 1.638518e+09
## 177              Solomon Islands   SB   SLB 2021 1.631487e+09
## 178          Antigua and Barbuda   AG   ATG 2021 1.471126e+09
## 179                   Seychelles   SC   SYC 2021 1.454458e+09
## 180                      Comoros   KM   COM 2021 1.296090e+09
## 181                      Grenada   GD   GRD 2021 1.122807e+09
## 182                      Vanuatu   VU   VUT 2021 9.563327e+08
## 183      Turks and Caicos Islands   TC   TCA 2021 9.432698e+08
## 184 St. Vincent and the Grenadines   VC   VCT 2021 9.041815e+08
## 185          St. Kitts and Nevis   KN   KNA 2021 8.608407e+08
## 186                        Samoa   WS   WSM 2021 8.438424e+08
## 187              American Samoa   AS   ASM 2021 7.090000e+08
## 188                    Dominica   DM   DMA 2021 5.541815e+08
## 189        Sao Tome and Principe   ST   STP 2021 5.266538e+08
## 190                       Tonga   TO   TON 2021 4.692313e+08
## 191         Micronesia, Fed. Sts.   FM   FSM 2021 4.040289e+08
## 192             Marshall Islands   MH   MHL 2021 2.595387e+08
## 193                       Palau   PW   PLW 2021 2.178000e+08
## 194                    Kiribati   KI   KIR 2021 2.070312e+08
## 195                       Nauru   NR   NRU 2021 1.332189e+08
## 196                      Tuvalu   TV   TUV 2021 6.310096e+07
##     lastupdated                   region          capital   longitude
## 1   2023-03-01            North America    Washington D.C.     -77.032
## 2   2023-03-01      East Asia & Pacific          Beijing     116.286
```

```
## 3    2023-03-01        East Asia & Pacific        Tokyo      139.77
## 4    2023-03-01    Europe & Central Asia          Berlin     13.4115
## 5    2023-03-01               South Asia          New Delhi  77.225
## 6    2023-03-01    Europe & Central Asia          London     -0.126236
## 7    2023-03-01    Europe & Central Asia          Paris      2.35097
## 8    2023-03-01    Europe & Central Asia          Rome       12.4823
## 9    2023-03-01            North America          Ottawa     -75.6919
## 10   2023-03-01        East Asia & Pacific        Seoul      126.957
## 11   2023-03-01    Europe & Central Asia          Moscow     37.6176
## 12   2023-03-01  Latin America & Caribbean        Brasilia   -47.9292
## 13   2023-03-01        East Asia & Pacific        Canberra   149.129
## 14   2023-03-01    Europe & Central Asia          Madrid     -3.70327
## 15   2023-03-01  Latin America & Caribbean        Mexico City -99.1276
## 16   2023-03-01        East Asia & Pacific        Jakarta    106.83
## 17   2023-03-01    Europe & Central Asia          Amsterdam  4.89095
## 18   2023-03-01 Middle East & North Africa        Riyadh     46.6977
## 19   2023-03-01    Europe & Central Asia          Ankara     32.3606
## 20   2023-03-01    Europe & Central Asia          Bern       7.44821
## 21   2023-03-01    Europe & Central Asia          Warsaw     21.02
## 22   2023-03-01    Europe & Central Asia          Stockholm  18.0645
## 23   2023-03-01    Europe & Central Asia          Brussels   4.36761
## 24   2023-03-01        East Asia & Pacific        Bangkok    100.521
## 25   2023-03-01    Europe & Central Asia          Dublin     -6.26749
## 26   2023-03-01 Middle East & North Africa                   35.2035
## 27   2023-03-01  Latin America & Caribbean        Buenos Aires -58.4173
## 28   2023-03-01    Europe & Central Asia          Oslo       10.7387
## 29   2023-03-01    Europe & Central Asia          Vienna     16.3798
## 30   2023-03-01        Sub-Saharan Africa         Abuja      7.48906
## 31   2023-03-01        Sub-Saharan Africa         Pretoria   28.1871
## 32   2023-03-01               South Asia          Dhaka      90.4113
## 33   2023-03-01 Middle East & North Africa        Abu Dhabi  54.3705
## 34   2023-03-01 Middle East & North Africa        Cairo      31.2461
## 35   2023-03-01    Europe & Central Asia          Copenhagen 12.5681
## 36   2023-03-01        East Asia & Pacific        Singapore  103.85
## 37   2023-03-01        East Asia & Pacific        Manila     121.035
## 38   2023-03-01        East Asia & Pacific        Kuala Lumpur 101.684
## 39   2023-03-01        East Asia & Pacific                   114.109
## 40   2023-03-01        East Asia & Pacific        Hanoi      105.825
## 41   2023-03-01 Middle East & North Africa        Tehran     51.4447
```

```
## 42 2023-03-01                         South Asia       Islamabad       72.8
## 43 2023-03-01 Latin America & Caribbean         Santiago  -70.6475
## 44 2023-03-01 Latin America & Caribbean           Bogota   -74.082
## 45 2023-03-01     Europe & Central Asia         Helsinki   24.9525
## 46 2023-03-01     Europe & Central Asia        Bucharest   26.0979
## 47 2023-03-01     Europe & Central Asia           Lisbon  -9.13552
## 48 2023-03-01       East Asia & Pacific       Wellington   174.776
## 49 2023-03-01 Latin America & Caribbean             Lima  -77.0465
## 50 2023-03-01     Europe & Central Asia           Athens   23.7166
## 51 2023-03-01 Middle East & North Africa         Baghdad    44.394
## 52 2023-03-01     Europe & Central Asia             Kiev   30.5038
## 53 2023-03-01     Europe & Central Asia           Astana   71.4382
## 54 2023-03-01     Europe & Central Asia         Budapest   19.0408
## 55 2023-03-01 Middle East & North Africa            Doha   51.5082
## 56 2023-03-01 Middle East & North Africa         Algiers   3.05097
## 57 2023-03-01 Middle East & North Africa           Rabat   -6.8704
## 58 2023-03-01     Europe & Central Asia       Bratislava   17.1073
## 59 2023-03-01        Sub-Saharan Africa      Addis Ababa   38.7468
## 60 2023-03-01        Sub-Saharan Africa          Nairobi   36.8126
## 61 2023-03-01 Latin America & Caribbean         San Juan       -66
## 62 2023-03-01 Latin America & Caribbean            Quito  -78.5243
## 63 2023-03-01 Latin America & Caribbean    Santo Domingo  -69.8908
## 64 2023-03-01                South Asia          Colombo   79.8528
## 65 2023-03-01 Middle East & North Africa          Muscat   58.5874
## 66 2023-03-01 Latin America & Caribbean   Guatemala City  -90.5328
## 67 2023-03-01     Europe & Central Asia       Luxembourg    6.1296
## 68 2023-03-01     Europe & Central Asia            Sofia   23.3238
## 69 2023-03-01        Sub-Saharan Africa            Accra  -0.20795
## 70 2023-03-01        Sub-Saharan Africa      Yamoussoukro   -4.0305
## 71 2023-03-01     Europe & Central Asia         Tashkent    69.269
## 72 2023-03-01     Europe & Central Asia           Zagreb   15.9614
## 73 2023-03-01     Europe & Central Asia            Minsk   27.5766
## 74 2023-03-01        Sub-Saharan Africa           Dodoma   35.7382
## 75 2023-03-01        Sub-Saharan Africa           Luanda    13.242
## 76 2023-03-01     Europe & Central Asia          Vilnius   25.2799
## 77 2023-03-01       East Asia & Pacific        Naypyidaw   95.9562
## 78 2023-03-01 Latin America & Caribbean         San Jose  -84.0089
## 79 2023-03-01 Latin America & Caribbean      Panama City  -79.5188
## 80 2023-03-01     Europe & Central Asia         Belgrade   20.4656
```

```
## 81  2023-03-01      Europe & Central Asia       Ljubljana    14.5044
## 82  2023-03-01 Latin America & Caribbean       Montevideo   -56.0675
## 83  2023-03-01        Sub-Saharan Africa         Kinshasa    15.3222
## 84  2023-03-01      Europe & Central Asia             Baku    49.8932
## 85  2023-03-01 Middle East & North Africa           Tunis      10.21
## 86  2023-03-01 Middle East & North Africa           Amman    35.9263
## 87  2023-03-01        Sub-Saharan Africa          Yaounde    11.5174
## 88  2023-03-01 Middle East & North Africa         Tripoli    13.1072
## 89  2023-03-01        Sub-Saharan Africa          Kampala    32.5729
## 90  2023-03-01 Latin America & Caribbean           La Paz   -66.1936
## 91  2023-03-01      Europe & Central Asia             Riga    24.1048
## 92  2023-03-01 Latin America & Caribbean         Asuncion   -57.6362
## 93  2023-03-01 Middle East & North Africa          Manama    50.5354
## 94  2023-03-01      Europe & Central Asia          Tallinn    24.7586
## 95  2023-03-01                South Asia        Kathmandu    85.3157
## 96  2023-03-01        Sub-Saharan Africa         Khartoum    32.5363
## 97  2023-03-01        East Asia & Pacific                     113.55
## 98  2023-03-01 Latin America & Caribbean     San Salvador   -89.2073
## 99  2023-03-01 Latin America & Caribbean      Tegucigalpa   -87.4667
## 100 2023-03-01      Europe & Central Asia          Nicosia    33.3736
## 101 2023-03-01        Sub-Saharan Africa           Harare    31.0672
## 102 2023-03-01        Sub-Saharan Africa            Dakar   -17.4734
## 103 2023-03-01        East Asia & Pacific       Phnom Penh   104.874
## 104 2023-03-01        East Asia & Pacific     Port Moresby   147.194
## 105 2023-03-01      Europe & Central Asia        Reykjavik   -21.8952
## 106 2023-03-01 Latin America & Caribbean    Port-of-Spain   -61.4789
## 107 2023-03-01      Europe & Central Asia         Sarajevo    18.4214
## 108 2023-03-01 Middle East & North Africa          Beirut    35.5134
## 109 2023-03-01        Sub-Saharan Africa           Lusaka    28.2937
## 110 2023-03-01 Latin America & Caribbean   Port-au-Prince   -72.3288
## 111 2023-03-01        Sub-Saharan Africa        Libreville   9.45162
## 112 2023-03-01        Sub-Saharan Africa       Ouagadougou  -1.53395
## 113 2023-03-01        Sub-Saharan Africa           Bamako   -7.50034
## 114 2023-03-01        East Asia & Pacific        Vientiane   102.177
## 115 2023-03-01      Europe & Central Asia          Tbilisi    44.793
## 116 2023-03-01      Europe & Central Asia            Tirane    19.8172
## 117 2023-03-01 Middle East & North Africa
## 118 2023-03-01        Sub-Saharan Africa         Gaborone    25.9201
## 119 2023-03-01 Middle East & North Africa        Valletta    14.5189
```

```
## 120  2023-03-01          Sub-Saharan Africa              Porto-Novo     2.6323
## 121  2023-03-01          Sub-Saharan Africa                 Conakry      -13.7
## 122  2023-03-01          Sub-Saharan Africa                  Maputo    32.5713
## 123  2023-03-01          East Asia & Pacific             Ulaanbaatar   106.937
## 124  2023-03-01          Sub-Saharan Africa                  Niamey     2.1073
## 125  2023-03-01                  South Asia                   Kabul    69.1761
## 126  2023-03-01  Latin America & Caribbean               Kingston     -76.792
## 127  2023-03-01          Sub-Saharan Africa            Antananarivo    45.7167
## 128  2023-03-01  Latin America & Caribbean                Managua    -86.2734
## 129  2023-03-01          East Asia & Pacific Bandar Seri Begawan    114.946
## 130  2023-03-01       Europe & Central Asia                 Yerevan    44.509
## 131  2023-03-01       Europe & Central Asia                  Skopje    21.4361
## 132  2023-03-01       Europe & Central Asia                Chisinau    28.8497
## 133  2023-03-01          Sub-Saharan Africa             Brazzaville    15.2662
## 134  2023-03-01          Sub-Saharan Africa                Lilongwe    33.7703
## 135  2023-03-01          Sub-Saharan Africa                Windhoek    17.0931
## 136  2023-03-01          Sub-Saharan Africa                  Malabo     8.7741
## 137  2023-03-01          Sub-Saharan Africa               N'Djamena    15.0445
## 138  2023-03-01          Sub-Saharan Africa               Port Louis   57.4977
## 139  2023-03-01  Latin America & Caribbean                 Nassau     -77.339
## 140  2023-03-01          Sub-Saharan Africa                  Kigali    30.0587
## 141  2023-03-01          East Asia & Pacific                 Noum'ea   166.464
## 142  2023-03-01          Sub-Saharan Africa              Nouakchott    -15.9824
## 143  2023-03-01       Europe & Central Asia                Pristina    20.926
## 144  2023-03-01       Europe & Central Asia                Dushanbe    68.7864
## 145  2023-03-01       Europe & Central Asia                  Monaco    7.41891
## 146  2023-03-01       Europe & Central Asia                 Bishkek    74.6057
## 147  2023-03-01          Sub-Saharan Africa                    Lome     1.2255
## 148  2023-03-01  Latin America & Caribbean              Georgetown    -58.1548
## 149  2023-03-01          Sub-Saharan Africa               Mogadishu    45.3254
## 150  2023-03-01               North America                Hamilton    -64.706
## 151  2023-03-01          East Asia & Pacific                   Agana   144.794
## 152  2023-03-01          East Asia & Pacific                 Papeete   -149.57
## 153  2023-03-01  Latin America & Caribbean             George Town    -81.3857
## 154  2023-03-01       Europe & Central Asia                Podgorica    19.2595
## 155  2023-03-01                  South Asia                    Male    73.5109
## 156  2023-03-01  Latin America & Caribbean             Bridgetown    -59.6105
## 157  2023-03-01          Sub-Saharan Africa                 Mbabane    31.4659
## 158  2023-03-01          East Asia & Pacific                    Suva   178.399
```

```
## 159 2023-03-01         Sub-Saharan Africa          Freetown  -13.2134
## 160 2023-03-01        Europe & Central Asia          Torshavn  -6.91181
## 161 2023-03-01          East Asia & Pacific              Dili   125.567
## 162 2023-03-01         Sub-Saharan Africa           Monrovia  -10.7957
## 163 2023-03-01 Middle East & North Africa          Djibouti   43.1425
## 164 2023-03-01        Europe & Central Asia  Andorra la Vella    1.5218
## 165 2023-03-01 Latin America & Caribbean         Oranjestad  -70.0167
## 166 2023-03-01 Latin America & Caribbean         Paramaribo  -55.1679
## 167 2023-03-01         Sub-Saharan Africa           Bujumbura   29.3639
## 168 2023-03-01 Latin America & Caribbean         Willemstad
## 169 2023-03-01                 South Asia           Thimphu   89.6177
## 170 2023-03-01         Sub-Saharan Africa             Bangui   21.6407
## 171 2023-03-01         Sub-Saharan Africa             Maseru   27.7167
## 172 2023-03-01 Latin America & Caribbean           Belmopan  -88.7713
## 173 2023-03-01         Sub-Saharan Africa             Banjul  -16.5885
## 174 2023-03-01         Sub-Saharan Africa              Praia  -23.5087
## 175 2023-03-01 Latin America & Caribbean           Castries  -60.9832
## 176 2023-03-01         Sub-Saharan Africa             Bissau  -15.1804
## 177 2023-03-01          East Asia & Pacific           Honiara   159.949
## 178 2023-03-01 Latin America & Caribbean       Saint John's  -61.8456
## 179 2023-03-01         Sub-Saharan Africa           Victoria   55.4466
## 180 2023-03-01         Sub-Saharan Africa             Moroni   43.2418
## 181 2023-03-01 Latin America & Caribbean      Saint George's  -61.7449
## 182 2023-03-01          East Asia & Pacific          Port-Vila   168.321
## 183 2023-03-01 Latin America & Caribbean         Grand Turk -71.141389
## 184 2023-03-01 Latin America & Caribbean          Kingstown  -61.2653
## 185 2023-03-01 Latin America & Caribbean         Basseterre  -62.7309
## 186 2023-03-01          East Asia & Pacific               Apia  -171.752
## 187 2023-03-01          East Asia & Pacific          Pago Pago  -170.691
## 188 2023-03-01 Latin America & Caribbean             Roseau    -61.39
## 189 2023-03-01         Sub-Saharan Africa           Sao Tome    6.6071
## 190 2023-03-01          East Asia & Pacific          Nuku'alofa  -175.216
## 191 2023-03-01          East Asia & Pacific            Palikir   158.185
## 192 2023-03-01          East Asia & Pacific             Majuro   171.135
## 193 2023-03-01          East Asia & Pacific              Koror   134.479
## 194 2023-03-01          East Asia & Pacific             Tarawa   172.979
## 195 2023-03-01          East Asia & Pacific     Yaren District 166.920867
## 196 2023-03-01          East Asia & Pacific           Funafuti 179.089567
##       latitude              income          lending
```

```
## 1     38.8895           High income Not classified
## 2     40.0495 Upper middle income          IBRD
## 3      35.67            High income Not classified
## 4     52.5235           High income Not classified
## 5     28.6353 Lower middle income          IBRD
## 6     51.5002           High income Not classified
## 7     48.8566           High income Not classified
## 8     41.8955           High income Not classified
## 9     45.4215           High income Not classified
## 10    37.5323           High income Not classified
## 11    55.7558 Upper middle income          IBRD
## 12   -15.7801 Upper middle income          IBRD
## 13    -35.282           High income Not classified
## 14    40.4167           High income Not classified
## 15     19.427 Upper middle income          IBRD
## 16   -6.19752 Lower middle income          IBRD
## 17    52.3738           High income Not classified
## 18    24.6748           High income Not classified
## 19    39.7153 Upper middle income          IBRD
## 20     46.948           High income Not classified
## 21      52.26           High income          IBRD
## 22    59.3327           High income Not classified
## 23    50.8371           High income Not classified
## 24    13.7308 Upper middle income          IBRD
## 25    53.3441           High income Not classified
## 26    31.7717           High income Not classified
## 27   -34.6118 Upper middle income          IBRD
## 28    59.9138           High income Not classified
## 29    48.2201           High income Not classified
## 30    9.05804 Lower middle income         Blend
## 31    -25.746 Upper middle income          IBRD
## 32    23.7055 Lower middle income           IDA
## 33    24.4764           High income Not classified
## 34    30.0982 Lower middle income          IBRD
## 35    55.6763           High income Not classified
## 36    1.28941           High income Not classified
## 37    14.5515 Lower middle income          IBRD
## 38    3.12433 Upper middle income          IBRD
## 39    22.3964           High income Not classified
```

```
## 40       21.0069 Lower middle income          IBRD
## 41       35.6878 Lower middle income          IBRD
## 42       30.5167 Lower middle income         Blend
## 43       -33.475         High income          IBRD
## 44       4.60987 Upper middle income          IBRD
## 45       60.1608         High income Not classified
## 46       44.4479         High income          IBRD
## 47       38.7072         High income Not classified
## 48      -41.2865         High income Not classified
## 49     -12.0931 Upper middle income          IBRD
## 50       37.9792         High income Not classified
## 51       33.3302 Upper middle income          IBRD
## 52       50.4536 Lower middle income          IBRD
## 53       51.1879 Upper middle income          IBRD
## 54       47.4984         High income Not classified
## 55       25.2948         High income Not classified
## 56       36.7397 Lower middle income          IBRD
## 57       33.9905 Lower middle income          IBRD
## 58       48.1484         High income Not classified
## 59       9.02274          Low income           IDA
## 60      -1.27975 Lower middle income         Blend
## 61         18.23         High income Not classified
## 62     -0.229498 Upper middle income          IBRD
## 63        18.479 Upper middle income          IBRD
## 64       6.92148 Lower middle income          IBRD
## 65       23.6105         High income Not classified
## 66       14.6248 Upper middle income          IBRD
## 67         49.61         High income Not classified
## 68       42.7105 Upper middle income          IBRD
## 69       5.57045 Lower middle income           IDA
## 70         5.332 Lower middle income           IDA
## 71       41.3052 Lower middle income         Blend
## 72       45.8069         High income          IBRD
## 73       53.9678 Upper middle income          IBRD
## 74      -6.17486 Lower middle income           IDA
## 75      -8.81155 Lower middle income          IBRD
## 76       54.6896         High income Not classified
## 77        21.914 Lower middle income           IDA
## 78       9.63701 Upper middle income          IBRD
```

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```
## 79     8.99427          High income          IBRD
## 80    44.8024 Upper middle income            IBRD
## 81    46.0546          High income Not classified
## 82   -34.8941          High income            IBRD
## 83     -4.325           Low income             IDA
## 84    40.3834 Upper middle income            IBRD
## 85    36.7899 Lower middle income            IBRD
## 86    31.9497 Upper middle income            IBRD
## 87     3.8721 Lower middle income           Blend
## 88    32.8578 Upper middle income            IBRD
## 89   0.314269           Low income             IDA
## 90   -13.9908 Lower middle income            IBRD
## 91    56.9465          High income Not classified
## 92   -25.3005 Upper middle income            IBRD
## 93    26.1921          High income Not classified
## 94    59.4392          High income Not classified
## 95    27.6939 Lower middle income             IDA
## 96    15.5932           Low income             IDA
## 97    22.1667          High income Not classified
## 98    13.7034 Lower middle income            IBRD
## 99    15.1333 Lower middle income             IDA
## 100    35.1676          High income Not classified
## 101   -17.8312 Lower middle income           Blend
## 102    14.7247 Lower middle income             IDA
## 103    11.5556 Lower middle income             IDA
## 104   -9.47357 Lower middle income           Blend
## 105    64.1353          High income Not classified
## 106    10.6596          High income            IBRD
## 107    43.8607 Upper middle income            IBRD
## 108    33.8872 Lower middle income            IBRD
## 109   -15.3982           Low income             IDA
## 110    18.5392 Lower middle income             IDA
## 111   0.38832 Upper middle income            IBRD
## 112    12.3605           Low income             IDA
## 113    13.5667           Low income             IDA
## 114    18.5826 Lower middle income             IDA
## 115     41.71 Upper middle income            IBRD
## 116    41.3317 Upper middle income            IBRD
## 117           Lower middle income Not classified
```

```
## 118   -24.6544 Upper middle income          IBRD
## 119   35.9042          High income Not classified
## 120    6.4779 Lower middle income          IDA
## 121   9.51667          Low income           IDA
## 122  -25.9664          Low income           IDA
## 123   47.9129 Lower middle income          IBRD
## 124    13.514          Low income           IDA
## 125   34.5228          Low income           IDA
## 126   17.9927 Upper middle income          IBRD
## 127  -20.4667          Low income           IDA
## 128   12.1475 Lower middle income          IDA
## 129   4.94199          High income Not classified
## 130   40.1596 Upper middle income          IBRD
## 131   42.0024 Upper middle income          IBRD
## 132   47.0167 Upper middle income          IBRD
## 133   -4.2767 Lower middle income          Blend
## 134  -13.9899          Low income           IDA
## 135  -22.5648 Upper middle income          IBRD
## 136    3.7523 Upper middle income          IBRD
## 137   12.1048          Low income           IDA
## 138  -20.1605 Upper middle income          IBRD
## 139   25.0661          High income Not classified
## 140  -1.95325          Low income           IDA
## 141  -22.2677          High income Not classified
## 142   18.2367 Lower middle income          IDA
## 143    42.565 Upper middle income          IDA
## 144   38.5878 Lower middle income          IDA
## 145   43.7325          High income Not classified
## 146   42.8851 Lower middle income          IDA
## 147    6.1228          Low income           IDA
## 148   6.80461 Upper middle income          IDA
## 149   2.07515          Low income           IDA
## 150   32.3293          High income Not classified
## 151   13.4443          High income Not classified
## 152   -17.535          High income Not classified
## 153   19.3022          High income Not classified
## 154   42.4602 Upper middle income          IBRD
## 155    4.1742 Upper middle income          IDA
## 156   13.0935          High income Not classified
```

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```
## 157   -26.5225 Lower middle income          IBRD
## 158   -18.1149 Upper middle income          Blend
## 159    8.4821          Low income          IDA
## 160    61.8926         High income Not classified
## 161   -8.56667 Lower middle income          Blend
## 162    6.30039         Low income          IDA
## 163    11.5806 Lower middle income          IDA
## 164    42.5075         High income Not classified
## 165    12.5167         High income Not classified
## 166     5.8232 Upper middle income          IBRD
## 167    -3.3784         Low income          IDA
## 168                    High income Not classified
## 169    27.5768 Lower middle income          IDA
## 170    5.63056         Low income          IDA
## 171   -29.5208 Lower middle income          IDA
## 172    17.2534 Upper middle income          IBRD
## 173    13.4495         Low income          IDA
## 174    14.9218 Lower middle income          Blend
## 175         14 Upper middle income          Blend
## 176    11.8037         Low income          IDA
## 177   -9.42676 Lower middle income          IDA
## 178    17.1175         High income          IBRD
## 179    -4.6309         High income          IBRD
## 180   -11.6986 Lower middle income          IDA
## 181    12.0653 Upper middle income          Blend
## 182   -17.7404 Lower middle income          IDA
## 183 21.4602778         High income Not classified
## 184    13.2035 Upper middle income          Blend
## 185       17.3         High income          IBRD
## 186   -13.8314 Lower middle income          IDA
## 187   -14.2846 Upper middle income Not classified
## 188    15.2976 Upper middle income          Blend
## 189    0.20618 Lower middle income          IDA
## 190    -21.136 Upper middle income          IDA
## 191    6.91771 Lower middle income          IDA
## 192    7.11046 Upper middle income          IDA
## 193    7.34194 Upper middle income          IBRD
## 194    1.32905 Lower middle income          IDA
## 195    -0.5477         High income          IBRD
```

```
## 196 -8.6314877 Upper middle income          IDA
```

3 兆ドルを超えている 6 つの国についての過去の推移をグラフにしたものです。

```
WDI(country = c("CN","GB","JP","IN","US","DE"), indicator = c(gdp = "NY.GDP.MKTP.CD"), extra=TRUE)
  ggplot(aes(year, gdp, col = country)) + geom_line() +
  labs(title = "WDI NY.GDP.MKTP.CD: gdp")
```


WDI NY.GDP.MKTP.CD: gdp
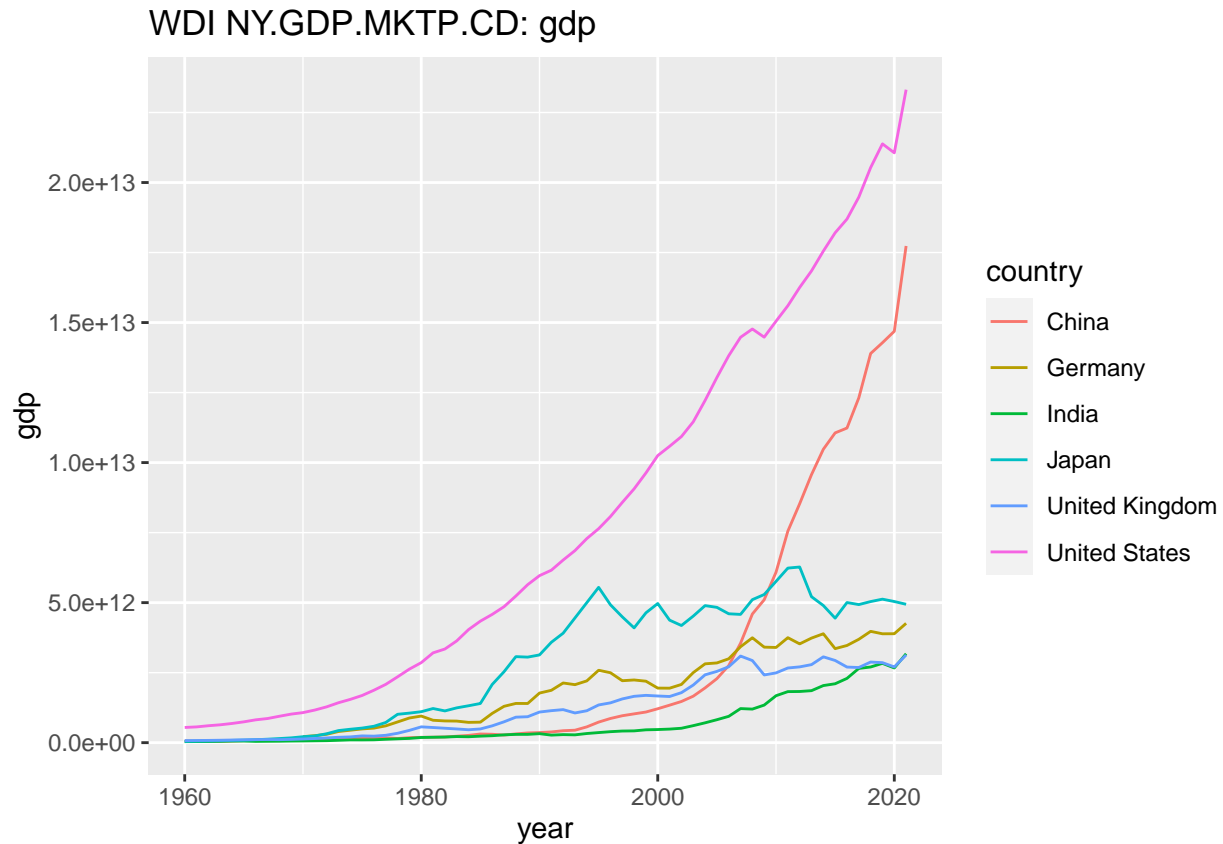
```
WDI(country = c("CN","IN","JP","US"),
    indicator = c(gdp_growth_rate = "NY.GDP.MKTP.KD.ZG"), extra=TRUE) %>%
  drop_na(gdp_growth_rate) %>%
  ggplot(aes(year, gdp_growth_rate, col = country)) + geom_line() +
  labs(title = paste("WDI NY.GDP.MKTP.KD.ZG: gdp growth rate"))
```

WDI NY.GDP.MKTP.KD.ZG: gdp growth rate
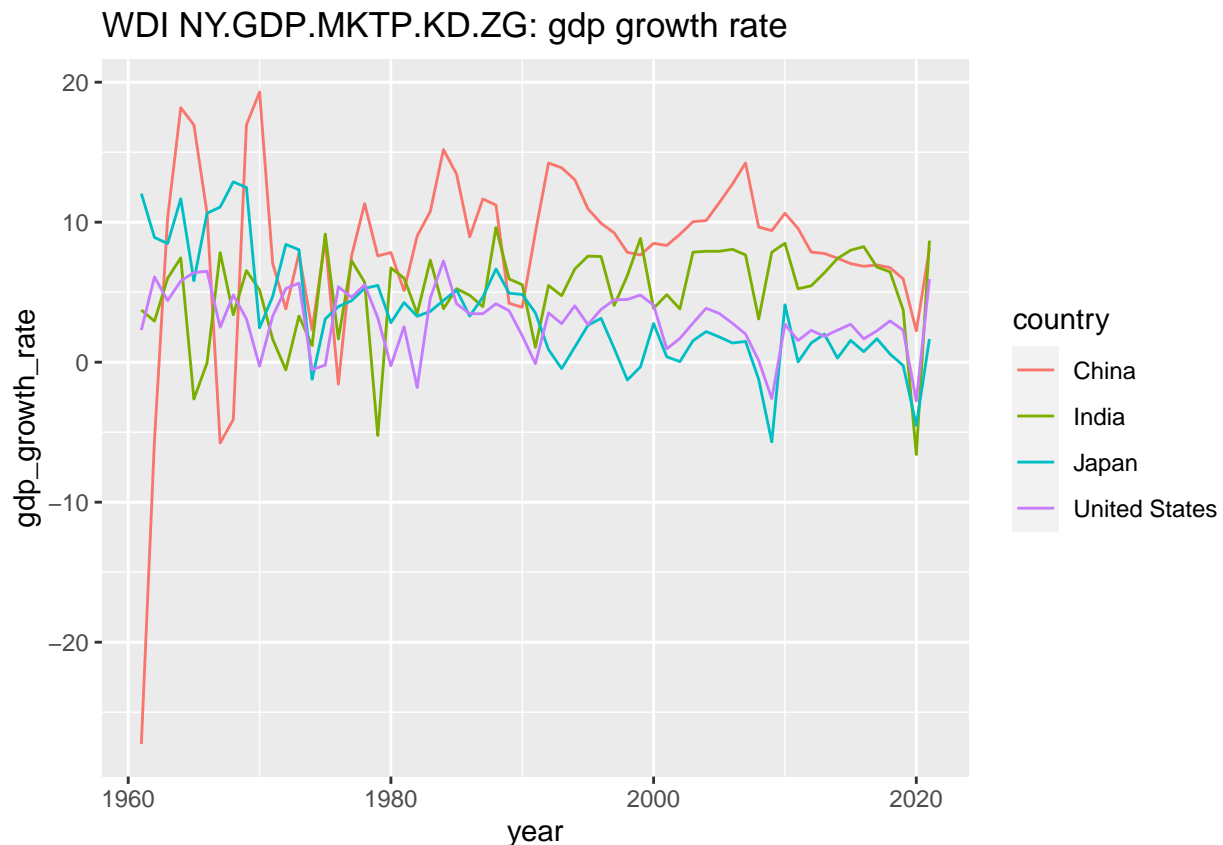
上で使った指標 (WDI)

- NY.GDP.MKTP.CD: GDP (current US$)
- NY.GDP.MKTP.KD.ZG: GDP growth (annual %)

世界開発指標 (WDI) を探してみよう

> WDI は、世界の開発状況と、貧困との戦いに関する、適切で上質、かつ、国際的に比較可能な時系列の統計データを編纂したものです。このデータベースは、217 の経済と 40 以上の国グループについて 1,400 の時系列指標を含み、指標のデータの多くは 50 年以上前に遡ることができます。

下の 2 箇所から探すことができます。- 世界銀行（World Bank）オープンデータ - Country / Indicator > Featured & All > Details - 世界開発指標 (WDI)：- テーマ：貧困と格差、人間、環境、経済、国家と市場、グローバルリンク集（Poverty and Inequality, People, Environment, Economy, States and Markets, Global Links）

練習 1. - 調べてみたい WDI

いくつか、リストしてみましょう。

WDI パッケージ

WDI パッケージで、データをダウンロードしたり、探したり、詳細情報を得たりできます。

指標 WDI 検索

```
WDIsearch(string = "gdp", field = "name", short = TRUE, cache = NULL)
```

検索例 1（WDI 名）

```
##                          indicator
## 712              5.51.01.10.gdp
## 714              6.0.GDP_current
## 715              6.0.GDP_growth
## 716                  6.0.GDP_usd
## 717              6.0.GDPpc_constant
## 1557            BG.GSR.NFSV.GD.ZS
## 1558            BG.KAC.FNEI.GD.PP.ZS
## 1559            BG.KAC.FNEI.GD.ZS
## 1560            BG.KLT.DINV.GD.PP.ZS
## 1561            BG.KLT.DINV.GD.ZS
## 1752            BI.WAG.TOTL.GD.ZS
## 1772              BM.GSR.MRCH.ZS
## 1784            BM.KLT.DINV.GD.ZS
## 1785            BM.KLT.DINV.WD.GD.ZS
## 1798            BN.CAB.XOKA.GD.ZS
## 1799            BN.CAB.XOKA.GDP.ZS
## 1802              BN.CAB.XOTR.ZS
## 1805              BN.CUR.GDPM.ZS
## 1811            BN.GSR.FCTY.CD.ZS
## 1820            BN.KLT.DINV.CD.ZS
## 1822      BN.KLT.DINV.DRS.GDP.ZS
## 1828            BN.KLT.PRVT.GD.ZS
## 1839            BN.TRF.CURR.CD.ZS
## 1875              BX.GSR.MRCH.ZS
## 1887            BX.KLT.DINV.DT.GD.ZS
## 1889            BX.KLT.DINV.WD.GD.ZS
## 1898            BX.TRF.MGR.DT.GD.ZS
## 1904            BX.TRF.PWKR.DT.GD.ZS
## 1905            BX.TRF.PWKR.GD.ZS
## 2198              CC.ENTX.ENE.ZS
```

```
## 2270              CC.GHG.MEMG.EI
## 2271              CC.GHG.MEMG.GC
## 2293               CC.INCP.ALRS
## 2294               CC.INCP.KRGC
## 2295               CC.INCP.SPMC
## 2356             CC.RISK.AST.ZS
## 2357            CC.RISK.WELL.ZS
## 2364               CC.SP.EXP.ZS
## 2401           CM.FIN.INTL.GD.ZS
## 2404           CM.MKT.LCAP.GD.ZS
## 2407           CM.MKT.TRAD.GD.ZS
## 2559         DP.DOD.DECD.CR.BC.Z1
## 2562         DP.DOD.DECD.CR.CG.Z1
## 2565         DP.DOD.DECD.CR.FC.Z1
## 2568         DP.DOD.DECD.CR.GG.Z1
## 2571         DP.DOD.DECD.CR.NF.Z1
## 2576         DP.DOD.DECF.CR.BC.Z1
## 2579         DP.DOD.DECF.CR.CG.Z1
## 2582         DP.DOD.DECF.CR.FC.Z1
## 2585         DP.DOD.DECF.CR.GG.Z1
## 2588         DP.DOD.DECF.CR.NF.Z1
## 2593         DP.DOD.DECN.CR.BC.Z1
## 2596         DP.DOD.DECN.CR.CG.Z1
## 2599         DP.DOD.DECN.CR.FC.Z1
## 2602         DP.DOD.DECN.CR.GG.Z1
## 2605         DP.DOD.DECN.CR.NF.Z1
## 2610         DP.DOD.DECT.CR.BC.Z1
## 2613         DP.DOD.DECT.CR.CG.Z1
## 2616         DP.DOD.DECT.CR.FC.Z1
## 2619         DP.DOD.DECT.CR.GG.Z1
## 2622         DP.DOD.DECT.CR.NF.Z1
## 2627         DP.DOD.DECX.CR.BC.Z1
## 2630         DP.DOD.DECX.CR.CG.Z1
## 2633         DP.DOD.DECX.CR.FC.Z1
## 2636         DP.DOD.DECX.CR.GG.Z1
## 2639         DP.DOD.DECX.CR.NF.Z1
## 2644         DP.DOD.DLCD.CR.BC.Z1
## 2647         DP.DOD.DLCD.CR.CG.Z1
## 2650         DP.DOD.DLCD.CR.FC.Z1
```

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## 2653         DP.DOD.DLCD.CR.GG.Z1
## 2656      DP.DOD.DLCD.CR.L1.BC.Z1
## 2659      DP.DOD.DLCD.CR.L1.CG.Z1
## 2662      DP.DOD.DLCD.CR.L1.FC.Z1
## 2665      DP.DOD.DLCD.CR.L1.GG.Z1
## 2668      DP.DOD.DLCD.CR.L1.NF.Z1
## 2673      DP.DOD.DLCD.CR.M1.BC.Z1
## 2676      DP.DOD.DLCD.CR.M1.CG.Z1
## 2679      DP.DOD.DLCD.CR.M1.FC.Z1
## 2682      DP.DOD.DLCD.CR.M1.GG.Z1
## 2685      DP.DOD.DLCD.CR.M1.NF.Z1
## 2690         DP.DOD.DLCD.CR.NF.Z1
## 2694         DP.DOD.DLD1.CR.CG.Z1
## 2696         DP.DOD.DLD1.CR.GG.Z1
## 2698         DP.DOD.DLD2.CR.CG.Z1
## 2700         DP.DOD.DLD2.CR.GG.Z1
## 2702        DP.DOD.DLD2A.CR.CG.Z1
## 2704        DP.DOD.DLD2A.CR.GG.Z1
## 2706         DP.DOD.DLD3.CR.CG.Z1
## 2708         DP.DOD.DLD3.CR.GG.Z1
## 2710         DP.DOD.DLD4.CR.CG.Z1
## 2712         DP.DOD.DLD4.CR.GG.Z1
## 2715         DP.DOD.DLDS.CR.BC.Z1
## 2718         DP.DOD.DLDS.CR.CG.Z1
## 2721         DP.DOD.DLDS.CR.FC.Z1
## 2724         DP.DOD.DLDS.CR.GG.Z1
## 2727      DP.DOD.DLDS.CR.L1.BC.Z1
## 2730      DP.DOD.DLDS.CR.L1.CG.Z1
## 2733      DP.DOD.DLDS.CR.L1.FC.Z1
## 2736      DP.DOD.DLDS.CR.L1.GG.Z1
## 2739      DP.DOD.DLDS.CR.L1.NF.Z1
## 2744      DP.DOD.DLDS.CR.M1.BC.Z1
## 2747      DP.DOD.DLDS.CR.M1.CG.Z1
## 2750      DP.DOD.DLDS.CR.M1.FC.Z1
## 2753      DP.DOD.DLDS.CR.M1.GG.Z1
## 2756      DP.DOD.DLDS.CR.M1.NF.Z1
## 2761      DP.DOD.DLDS.CR.MV.BC.Z1
## 2764      DP.DOD.DLDS.CR.MV.CG.Z1
## 2767      DP.DOD.DLDS.CR.MV.FC.Z1
```

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## 2770      DP.DOD.DLDS.CR.MV.GG.Z1
## 2773      DP.DOD.DLDS.CR.MV.NF.Z1
## 2778         DP.DOD.DLDS.CR.NF.Z1
## 2783         DP.DOD.DLIN.CR.BC.Z1
## 2786         DP.DOD.DLIN.CR.CG.Z1
## 2789         DP.DOD.DLIN.CR.FC.Z1
## 2792         DP.DOD.DLIN.CR.GG.Z1
## 2795      DP.DOD.DLIN.CR.L1.BC.Z1
## 2798      DP.DOD.DLIN.CR.L1.CG.Z1
## 2801      DP.DOD.DLIN.CR.L1.FC.Z1
## 2804      DP.DOD.DLIN.CR.L1.GG.Z1
## 2807      DP.DOD.DLIN.CR.L1.NF.Z1
## 2812      DP.DOD.DLIN.CR.M1.BC.Z1
## 2815      DP.DOD.DLIN.CR.M1.CG.Z1
## 2818      DP.DOD.DLIN.CR.M1.FC.Z1
## 2821      DP.DOD.DLIN.CR.M1.GG.Z1
## 2824      DP.DOD.DLIN.CR.M1.NF.Z1
## 2829         DP.DOD.DLIN.CR.NF.Z1
## 2834         DP.DOD.DLLO.CR.BC.Z1
## 2837         DP.DOD.DLLO.CR.CG.Z1
## 2840         DP.DOD.DLLO.CR.FC.Z1
## 2843         DP.DOD.DLLO.CR.GG.Z1
## 2846      DP.DOD.DLLO.CR.L1.BC.Z1
## 2849      DP.DOD.DLLO.CR.L1.CG.Z1
## 2852      DP.DOD.DLLO.CR.L1.FC.Z1
## 2855      DP.DOD.DLLO.CR.L1.GG.Z1
## 2858      DP.DOD.DLLO.CR.L1.NF.Z1
## 2863      DP.DOD.DLLO.CR.M1.BC.Z1
## 2866      DP.DOD.DLLO.CR.M1.CG.Z1
## 2869      DP.DOD.DLLO.CR.M1.FC.Z1
## 2872      DP.DOD.DLLO.CR.M1.GG.Z1
## 2875      DP.DOD.DLLO.CR.M1.NF.Z1
## 2880         DP.DOD.DLLO.CR.NF.Z1
## 2885         DP.DOD.DLOA.CR.BC.Z1
## 2888         DP.DOD.DLOA.CR.CG.Z1
## 2891         DP.DOD.DLOA.CR.FC.Z1
## 2894         DP.DOD.DLOA.CR.GG.Z1
## 2897      DP.DOD.DLOA.CR.L1.BC.Z1
## 2900      DP.DOD.DLOA.CR.L1.CG.Z1
```

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## 2903     DP.DOD.DLOA.CR.L1.FC.Z1
## 2906     DP.DOD.DLOA.CR.L1.GG.Z1
## 2909     DP.DOD.DLOA.CR.L1.NF.Z1
## 2914     DP.DOD.DLOA.CR.M1.BC.Z1
## 2917     DP.DOD.DLOA.CR.M1.CG.Z1
## 2920     DP.DOD.DLOA.CR.M1.FC.Z1
## 2923     DP.DOD.DLOA.CR.M1.GG.Z1
## 2926     DP.DOD.DLOA.CR.M1.NF.Z1
## 2931        DP.DOD.DLOA.CR.NF.Z1
## 2936        DP.DOD.DLSD.CR.BC.Z1
## 2939        DP.DOD.DLSD.CR.CG.Z1
## 2942        DP.DOD.DLSD.CR.FC.Z1
## 2945        DP.DOD.DLSD.CR.GG.Z1
## 2948     DP.DOD.DLSD.CR.M1.BC.Z1
## 2951     DP.DOD.DLSD.CR.M1.CG.Z1
## 2954     DP.DOD.DLSD.CR.M1.FC.Z1
## 2957     DP.DOD.DLSD.CR.M1.GG.Z1
## 2960     DP.DOD.DLSD.CR.M1.NF.Z1
## 2965        DP.DOD.DLSD.CR.NF.Z1
## 2970        DP.DOD.DLTC.CR.BC.Z1
## 2973        DP.DOD.DLTC.CR.CG.Z1
## 2976        DP.DOD.DLTC.CR.FC.Z1
## 2979        DP.DOD.DLTC.CR.GG.Z1
## 2982     DP.DOD.DLTC.CR.L1.BC.Z1
## 2985     DP.DOD.DLTC.CR.L1.CG.Z1
## 2988     DP.DOD.DLTC.CR.L1.FC.Z1
## 2991     DP.DOD.DLTC.CR.L1.GG.Z1
## 2994     DP.DOD.DLTC.CR.L1.NF.Z1
## 2999     DP.DOD.DLTC.CR.M1.BC.Z1
## 3002     DP.DOD.DLTC.CR.M1.CG.Z1
## 3005     DP.DOD.DLTC.CR.M1.FC.Z1
## 3008     DP.DOD.DLTC.CR.M1.GG.Z1
## 3011     DP.DOD.DLTC.CR.M1.NF.Z1
## 3016        DP.DOD.DLTC.CR.NF.Z1
## 3022        DP.DOD.DSCD.CR.BC.Z1
## 3025        DP.DOD.DSCD.CR.CG.Z1
## 3028        DP.DOD.DSCD.CR.FC.Z1
## 3031        DP.DOD.DSCD.CR.GG.Z1
## 3034        DP.DOD.DSCD.CR.NF.Z1
```

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## 3039          DP.DOD.DSDS.CR.BC.Z1
## 3042          DP.DOD.DSDS.CR.CG.Z1
## 3045          DP.DOD.DSDS.CR.FC.Z1
## 3048          DP.DOD.DSDS.CR.GG.Z1
## 3051          DP.DOD.DSDS.CR.NF.Z1
## 3056          DP.DOD.DSIN.CR.BC.Z1
## 3059          DP.DOD.DSIN.CR.CG.Z1
## 3062          DP.DOD.DSIN.CR.FC.Z1
## 3065          DP.DOD.DSIN.CR.GG.Z1
## 3068          DP.DOD.DSIN.CR.NF.Z1
## 3073          DP.DOD.DSLO.CR.BC.Z1
## 3076          DP.DOD.DSLO.CR.CG.Z1
## 3079          DP.DOD.DSLO.CR.FC.Z1
## 3082          DP.DOD.DSLO.CR.GG.Z1
## 3085          DP.DOD.DSLO.CR.NF.Z1
## 3090          DP.DOD.DSOA.CR.BC.Z1
## 3093          DP.DOD.DSOA.CR.CG.Z1
## 3096          DP.DOD.DSOA.CR.FC.Z1
## 3099          DP.DOD.DSOA.CR.GG.Z1
## 3102          DP.DOD.DSOA.CR.NF.Z1
## 3107          DP.DOD.DSTC.CR.BC.Z1
## 3110          DP.DOD.DSTC.CR.CG.Z1
## 3113          DP.DOD.DSTC.CR.FC.Z1
## 3116          DP.DOD.DSTC.CR.GG.Z1
## 3119          DP.DOD.DSTC.CR.NF.Z1
## 3615             DT.DOD.ALLC.ZSG
## 3618             DT.DOD.ALLN.ZSG
## 3773           DT.DOD.DECT.CD.ZSG
## 5376            DT.ODA.ALLD.GD.ZS
## 5447              DT.ODA.DACD.ZSG
## 5452              DT.ODA.MULT.ZSG
## 5460              DT.ODA.NDAC.ZSG
## 5466            DT.ODA.ODAT.GD.ZS
## 5616            DT.TDS.DECT.GD.ZS
## 5969            EG.EGY.PRIM.PP.KD
## 5993            EG.GDP.PUSE.KO.87
## 5994            EG.GDP.PUSE.KO.KD
## 5995            EG.GDP.PUSE.KO.PP
## 5996          EG.GDP.PUSE.KO.PP.KD
```

```
## 6004         EG.USE.COMM.GD.PP.KD
## 6023              EN.ATM.CO2E.GDP
## 6027         EN.ATM.CO2E.KD.87.GD
## 6028            EN.ATM.CO2E.KD.GD
## 6033            EN.ATM.CO2E.PP.GD
## 6034         EN.ATM.CO2E.PP.GD.KD
## 6164             ER.GDP.FWTL.M3.KD
## 6182               EU.EGY.USES.GDP
## 6236             FB.DPT.INSU.PC.ZS
## 6589             FD.AST.PRVT.GD.ZS
## 6595             FI.RES.TOTL.CD.ZS
## 7389             FM.AST.GOVT.CN.ZS
## 7398             FM.AST.PRVT.GD.ZS
## 7407             FM.LBL.BMNY.GD.ZS
## 7414             FM.LBL.MQMY.GD.ZS
## 7415            FM.LBL.MQMY.GDP.ZS
## 7417               FM.LBL.MQMY.XD
## 7422            FM.LBL.QMNY.GDP.ZS
## 7423            FM.LBL.SEIG.GDP.ZS
## 7462             FS.AST.CGOV.GD.ZS
## 7463             FS.AST.DOMO.GD.ZS
## 7464             FS.AST.DOMS.GD.ZS
## 7465                 FS.AST.DTOT.ZS
## 7467             FS.AST.PRVT.GD.ZS
## 7468            FS.AST.PRVT.GDP.ZS
## 7469             FS.LBL.LIQU.GD.ZS
## 7470            FS.LBL.LIQU.GDP.ZS
## 7471             FS.LBL.QLIQ.GD.ZS
## 7530             GB.BAL.OVRL.GD.ZS
## 7531            GB.BAL.OVRL.GDP.ZS
## 7540             GB.DOD.TOTL.GD.ZS
## 7541            GB.DOD.TOTL.GDP.ZS
## 7545             GB.FIN.ABRD.GD.ZS
## 7546            GB.FIN.ABRD.GDP.ZS
## 7550             GB.FIN.DOMS.GD.ZS
## 7551            GB.FIN.DOMS.GDP.ZS
## 7561             GB.REV.CTOT.GD.ZS
## 7564            GB.REV.TOTL.GDP.ZS
## 7566             GB.REV.XAGT.CN.ZS
```

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## 7569          GB.RVC.TOTL.GD.ZS
## 7571            GB.SOE.DECT.ZS
## 7573          GB.SOE.ECON.GD.ZS
## 7574         GB.SOE.ECON.GDP.ZS
## 7577          GB.SOE.NFLW.GD.ZS
## 7578         GB.SOE.NFLW.GDP.ZS
## 7579          GB.SOE.OVRL.GD.ZS
## 7605          GB.TAX.TOTL.GD.ZS
## 7606         GB.TAX.TOTL.GDP.ZS
## 7624         GB.XPD.DEFN.GDP.ZS
## 7627          GB.XPD.RSDV.GD.ZS
## 7630          GB.XPD.TOTL.GD.ZS
## 7631         GB.XPD.TOTL.GDP.ZS
## 7638          GC.AST.TOTL.GD.ZS
## 7641          GC.BAL.CASH.GD.ZS
## 7646          GC.DOD.TOTL.GD.ZS
## 7650          GC.FIN.DOMS.GD.ZS
## 7652          GC.FIN.FRGN.GD.ZS
## 7654          GC.LBL.TOTL.GD.ZS
## 7656          GC.NFN.TOTL.GD.ZS
## 7658          GC.NLD.TOTL.GD.ZS
## 7669          GC.REV.XGRT.GD.ZS
## 7684          GC.TAX.TOTL.GD.ZS
## 7701          GC.XPN.TOTL.GD.ZS
## 7792                  GFDD.DI.01
## 7793                  GFDD.DI.02
## 7794                  GFDD.DI.03
## 7796                  GFDD.DI.05
## 7797                  GFDD.DI.06
## 7798                  GFDD.DI.07
## 7799                  GFDD.DI.08
## 7800                  GFDD.DI.09
## 7801                  GFDD.DI.10
## 7802                  GFDD.DI.11
## 7803                  GFDD.DI.12
## 7804                  GFDD.DI.13
## 7805                  GFDD.DI.14
## 7806                  GFDD.DM.01
## 7807                  GFDD.DM.02
```

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## 7808              GFDD.DM.03
## 7809              GFDD.DM.04
## 7810              GFDD.DM.05
## 7811              GFDD.DM.06
## 7812              GFDD.DM.07
## 7813              GFDD.DM.08
## 7814              GFDD.DM.09
## 7815              GFDD.DM.10
## 7816              GFDD.DM.11
## 7817              GFDD.DM.12
## 7818              GFDD.DM.13
## 7821              GFDD.DM.16
## 7822              GFDD.DM.16
## 7830              GFDD.EI.08
## 7837              GFDD.OI.02
## 7843              GFDD.OI.08
## 7844              GFDD.OI.09
## 7848              GFDD.OI.13
## 7849              GFDD.OI.14
## 7854              GFDD.OI.17
## 7855              GFDD.OI.18
## 8686          IE.ICT.TOTL.GD.ZS
## 8959         IS.RRS.GOOD.KM.PP.ZS
## 8961         IS.RRS.PASG.K2.PP.ZS
## 9068           IT.TEL.REVN.GD.ZS
## 10943          MS.MIL.XPND.GD.ZS
## 10948    NA.GDP.ACC.FB.SNA08.CR
## 10949    NA.GDP.ACC.FB.SNA08.KR
## 10950             NA.GDP.AGR.CR
## 10951             NA.GDP.AGR.KR
## 10952       NA.GDP.AGR.SNA08.CR
## 10953       NA.GDP.AGR.SNA08.KR
## 10954      NA.GDP.BUSS.SNA08.CR
## 10955      NA.GDP.BUSS.SNA08.KR
## 10956            NA.GDP.CNST.CR
## 10957            NA.GDP.CNST.KR
## 10958      NA.GDP.CNST.SNA08.CR
## 10959      NA.GDP.CNST.SNA08.KR
## 10960      NA.GDP.EDUS.SNA08.CR
```

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## 10961          NA.GDP.EDUS.SNA08.KR
## 10962     NA.GDP.ELEC.GAS.SNA08.CR
## 10963     NA.GDP.ELEC.GAS.SNA08.KR
## 10964            NA.GDP.EXC.OG.CR
## 10965            NA.GDP.EXC.OG.KR
## 10966              NA.GDP.FINS.CR
## 10967              NA.GDP.FINS.KR
## 10968         NA.GDP.FINS.SNA08.CR
## 10969         NA.GDP.FINS.SNA08.KR
## 10970   NA.GDP.HLTH.SOCW.SNA08.CR
## 10971   NA.GDP.HLTH.SOCW.SNA08.KR
## 10972            NA.GDP.INC.OG.CR
## 10973            NA.GDP.INC.OG.KR
## 10974       NA.GDP.INC.OG.SNA08.CR
## 10975       NA.GDP.INC.OG.SNA08.KR
## 10976    NA.GDP.INF.COMM.SNA08.CR
## 10977    NA.GDP.INF.COMM.SNA08.KR
## 10978              NA.GDP.MINQ.CR
## 10979              NA.GDP.MINQ.KR
## 10980         NA.GDP.MINQ.SNA08.CR
## 10981         NA.GDP.MINQ.SNA08.KR
## 10982               NA.GDP.MNF.CR
## 10983               NA.GDP.MNF.KR
## 10984          NA.GDP.MNF.SNA08.CR
## 10985          NA.GDP.MNF.SNA08.KR
## 10986    NA.GDP.PADM.DEF.SNA08.CR
## 10987    NA.GDP.PADM.DEF.SNA08.KR
## 10988         NA.GDP.REST.SNA08.CR
## 10989         NA.GDP.REST.SNA08.KR
## 10990          NA.GDP.SRV.OTHR.CR
## 10991          NA.GDP.SRV.OTHR.KR
## 10992    NA.GDP.SRV.OTHR.SNA08.CR
## 10993    NA.GDP.SRV.OTHR.SNA08.KR
## 10994         NA.GDP.TRAN.COMM.CR
## 10995         NA.GDP.TRAN.COMM.KR
## 10996   NA.GDP.TRAN.STOR.SNA08.CR
## 10997   NA.GDP.TRAN.STOR.SNA08.KR
## 10998          NA.GDP.TRD.HTL.CR
## 10999          NA.GDP.TRD.HTL.KR
```

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## 11000            NA.GDP.TRD.SNA08.CR
## 11001            NA.GDP.TRD.SNA08.KR
## 11002                  NA.GDP.UTL.CR
## 11003                  NA.GDP.UTL.KR
## 11004        NA.GDP.WTR.WST.SNA08.CR
## 11005        NA.GDP.WTR.WST.SNA08.KR
## 11014                NE.CON.GOVT.ZS
## 11025                NE.CON.PETC.ZS
## 11042                NE.CON.PRVT.ZS
## 11052                NE.CON.TETC.ZS
## 11060                NE.CON.TOTL.ZG
## 11061                NE.CON.TOTL.ZS
## 11071                NE.DAB.TOTL.ZS
## 11083                NE.EXP.GNFS.ZS
## 11085            NE.GDI.CON.GOVT.CR
## 11086     NE.GDI.CON.GOVT.SNA08.CR
## 11087              NE.GDI.CON.NPI.CR
## 11088      NE.GDI.CON.NPI.SNA08.CR
## 11089             NE.GDI.CON.PRVT.CR
## 11090     NE.GDI.CON.PRVT.SNA08.CR
## 11091                NE.GDI.EXPT.CR
## 11092         NE.GDI.EXPT.SNA08.CR
## 11117                NE.GDI.FPRV.ZS
## 11122                NE.GDI.FPUB.ZS
## 11125                NE.GDI.FTOT.CR
## 11132         NE.GDI.FTOT.SNA08.CR
## 11133                NE.GDI.FTOT.ZS
## 11134                NE.GDI.IMPT.CR
## 11135         NE.GDI.IMPT.SNA08.CR
## 11136         NE.GDI.INEX.SNA08.CR
## 11141                NE.GDI.STKB.CR
## 11145         NE.GDI.STKB.SNA08.CR
## 11154                NE.GDI.TOTL.CR
## 11161         NE.GDI.TOTL.SNA08.CR
## 11162                NE.GDI.TOTL.ZG
## 11163                NE.GDI.TOTL.ZS
## 11173                NE.IMP.GNFS.ZS
## 11174                NE.MRCH.GDP.ZS
## 11180                NE.RSB.GNFS.ZG
```

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## 11181            NE.RSB.GNFS.ZS
## 11184            NE.TRD.GNFS.ZS
## 11191            NP.AGR.TOTL.ZG
## 11195            NP.IND.TOTL.ZG
## 11201            NP.SRV.TOTL.ZG
## 11209         NV.AGR.PCAP.KD.ZG
## 11219            NV.AGR.TOTL.ZG
## 11220            NV.AGR.TOTL.ZS
## 11240            NV.IND.MANF.ZS
## 11254            NV.IND.TOTL.ZG
## 11255            NV.IND.TOTL.ZS
## 11273            NV.SRV.DISC.CD
## 11274            NV.SRV.DISC.CN
## 11275            NV.SRV.DISC.KN
## 11292            NV.SRV.TETC.ZG
## 11293            NV.SRV.TETC.ZS
## 11299            NV.SRV.TOTL.ZS
## 11388            NY.AGR.SUBS.GD.ZS
## 11392            NY.GDP.COAL.RT.ZS
## 11393            NY.GDP.DEFL.87.ZG
## 11394            NY.GDP.DEFL.KD.ZG
## 11395         NY.GDP.DEFL.KD.ZG.AD
## 11396            NY.GDP.DEFL.ZS
## 11397            NY.GDP.DEFL.ZS.87
## 11398            NY.GDP.DEFL.ZS.AD
## 11399            NY.GDP.DISC.CD
## 11400            NY.GDP.DISC.CN
## 11401            NY.GDP.DISC.KN
## 11405            NY.GDP.FCST.KD.87
## 11407            NY.GDP.FCST.KN.87
## 11408            NY.GDP.FRST.RT.ZS
## 11409            NY.GDP.MINR.RT.ZS
## 11410            NY.GDP.MKTP.CD
## 11411            NY.GDP.MKTP.CD.XD
## 11412            NY.GDP.MKTP.CN
## 11413            NY.GDP.MKTP.CN.AD
## 11414            NY.GDP.MKTP.CN.XD
## 11415            NY.GDP.MKTP.IN
## 11416            NY.GDP.MKTP.KD
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## 11417            NY.GDP.MKTP.KD.87
## 11418            NY.GDP.MKTP.KD.ZG
## 11419               NY.GDP.MKTP.KN
## 11420            NY.GDP.MKTP.KN.87
## 11421         NY.GDP.MKTP.KN.87.ZG
## 11422            NY.GDP.MKTP.PP.CD
## 11423            NY.GDP.MKTP.PP.KD
## 11424         NY.GDP.MKTP.PP.KD.87
## 11425               NY.GDP.MKTP.XD
## 11426             NY.GDP.MKTP.XU.E
## 11428            NY.GDP.NGAS.RT.ZS
## 11429               NY.GDP.PCAP.CD
## 11430               NY.GDP.PCAP.CN
## 11431               NY.GDP.PCAP.KD
## 11432            NY.GDP.PCAP.KD.ZG
## 11433               NY.GDP.PCAP.KN
## 11434            NY.GDP.PCAP.PP.CD
## 11435            NY.GDP.PCAP.PP.KD
## 11436         NY.GDP.PCAP.PP.KD.87
## 11437         NY.GDP.PCAP.PP.KD.ZG
## 11438            NY.GDP.PETR.RT.ZS
## 11439            NY.GDP.TOTL.RT.ZS
## 11452               NY.GDS.TOTL.ZS
## 11457            NY.GEN.AEDU.GD.ZS
## 11458            NY.GEN.DCO2.GD.ZS
## 11459            NY.GEN.DFOR.GD.ZS
## 11460            NY.GEN.DKAP.GD.ZS
## 11461            NY.GEN.DMIN.GD.ZS
## 11462            NY.GEN.DNGY.GD.ZS
## 11463            NY.GEN.NDOM.GD.ZS
## 11464            NY.GEN.SVNG.GD.ZS
## 11497               NY.GNS.ICTR.ZS
## 11535               NYGDPMKTPKDZ
## 11536               NYGDPMKTPSACD
## 11537               NYGDPMKTPSACN
## 11538               NYGDPMKTPSAKD
## 11539               NYGDPMKTPSAKN
## 11564                  PA.NUS.PPP
## 11565               PA.NUS.PPP.05
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## 11566               PA.NUS.PPPC.RF
## 15599               SE.PRM.SATT.2
## 15663               SE.PRM.TATT.1
## 15890               SE.XPD.EDUC.ZS
## 15895            SE.XPD.PRIM.GDP.ZS
## 15896             SE.XPD.PRIM.PC.ZS
## 15899            SE.XPD.SECO.GDP.ZS
## 15900             SE.XPD.SECO.PC.ZS
## 15904            SE.XPD.TERT.GDP.ZS
## 15905             SE.XPD.TERT.PC.ZS
## 15908             SE.XPD.TOTL.GD.ZS
## 15928            SF.TRN.RAIL.KM.ZS
## 16886            SH.XPD.CHEX.GD.ZS
## 16895            SH.XPD.GHED.GD.ZS
## 16899               SH.XPD.HLTH.ZS
## 16900            SH.XPD.KHEX.GD.ZS
## 16912               SH.XPD.PRIV.ZS
## 16915               SH.XPD.PUBL.ZS
## 16921               SH.XPD.TOTL.ZS
## 17073             SL.GDP.PCAP.EM.KD
## 17074          SL.GDP.PCAP.EM.KD.ZG
## 17075             SL.GDP.PCAP.EM.XD
## 17833          TG.VAL.TOTL.GD.PP.ZS
## 17834             TG.VAL.TOTL.GD.ZS
## 17835             TG.VAL.TOTL.GG.ZS
## 20066               UIS.XGDP.0.FSGOV
## 20067               UIS.XGDP.1.FSGOV
## 20068               UIS.XGDP.2.FSGOV
## 20069              UIS.XGDP.23.FSGOV
## 20070           UIS.XGDP.2T4.V.FSGOV
## 20071               UIS.XGDP.3.FSGOV
## 20072               UIS.XGDP.4.FSGOV
## 20073              UIS.XGDP.56.FSGOV
## 20123    UIS.XUNIT.GDPCAP.02.FSGOV
## 20124     UIS.XUNIT.GDPCAP.1.FSGOV
## 20125      UIS.XUNIT.GDPCAP.1.FSHH
## 20126     UIS.XUNIT.GDPCAP.2.FSGOV
## 20127    UIS.XUNIT.GDPCAP.23.FSGOV
## 20128     UIS.XUNIT.GDPCAP.23.FSHH
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## 20129   UIS.XUNIT.GDPCAP.3.FSGOV
## 20130 UIS.XUNIT.GDPCAP.5T8.FSGOV
## 20131  UIS.XUNIT.GDPCAP.5T8.FSHH
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## 2559                                               Gross PSD, Budgetary Central Go
## 2562                                                        Gross PSD, Central Go
## 2565                                              Gross PSD, Financial Public Cor
## 2568                                                       Gross PSD, General Go
## 2571                                           Gross PSD, Nonfinancial Public Cor
## 2576                                              Gross PSD, Budgetary Central
## 2579                                                        Gross PSD, Central
## 2582                                              Gross PSD, Financial Public C
## 2585                                                       Gross PSD, General
## 2588                                           Gross PSD, Nonfinancial Public C
## 2593                                              Gross PSD, Budgetary Central G
## 2596                                                        Gross PSD, Central G
## 2599                                              Gross PSD, Financial Public Co
## 2602                                                       Gross PSD, General G
## 2605                                           Gross PSD, Nonfinancial Public Co
## 2610                                                              Gross PSD,
## 2613                                                                       G
## 2616                                                              Gross PSD,
## 2619                                                                       G
## 2622                                                           Gross PSD, Non
## 2627                                              Gross PSD, Budgetary Central Go
## 2630                                                        Gross PSD, Central Go
## 2633                                              Gross PSD, Financial Public Cor
## 2636                                                       Gross PSD, General Go
## 2639                                           Gross PSD, Nonfinancial Public Cor
## 2644                                                          Gross PSD, Budget
## 2647                                                                  Gross P
## 2650                                                          Gross PSD, Financ
## 2653                                                                  Gross P
## 2656                      Gross PSD, Budgetary Central Gov., Long-term, With
## 2659                               Gross PSD, Central Gov., Long-term, With
## 2662                     Gross PSD, Financial Public Corp., Long-term, With
## 2665                               Gross PSD, General Gov., Long-term, With
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## 2668                                              Gross PSD, Nonfinancial Public Corp., Long-term, With
## 2673                                         Gross PSD, Budgetary Central Gov., Long-term, With p
## 2676                                                  Gross PSD, Central Gov., Long-term, With p
## 2679                                        Gross PSD, Financial Public Corp., Long-term, With p
## 2682                                                  Gross PSD, General Gov., Long-term, With p
## 2685                                     Gross PSD, Nonfinancial Public Corp., Long-term, With p
## 2690                                                                  Gross PSD, Nonfinanc
## 2694                                                                          Gross PSD, C
## 2696                                                                          Gross PSD, G
## 2698                                                                  Gross PSD, Central Go
## 2700                                                                  Gross PSD, General Go
## 2702                                                                    Gross PSD, Centra
## 2704                                                                    Gross PSD, Genera
## 2706                                                                      Gross PSD, Cen
## 2708                                                                      Gross PSD, Gen
## 2710                                              Gross PSD, Central Gov.-D4, All maturiti
## 2712                                              Gross PSD, General Gov.-D4, All maturiti
## 2715                                                                          Gross PSD,
## 2718                                                                                    G
## 2721                                                                          Gross PSD,
## 2724                                                                                    G
## 2727                                              Gross PSD, Budgetary Central Gov., Long-term
## 2730                                                      Gross PSD, Central Gov., Long-term
## 2733                                             Gross PSD, Financial Public Corp., Long-term
## 2736                                                      Gross PSD, General Gov., Long-term
## 2739                                     Gross PSD, Nonfinancial Public Corp., Long-term
## 2744                                             Gross PSD, Budgetary Central Gov., Long-term,
## 2747                                                      Gross PSD, Central Gov., Long-term,
## 2750                                             Gross PSD, Financial Public Corp., Long-term,
## 2753                                                      Gross PSD, General Gov., Long-term,
## 2756                                     Gross PSD, Nonfinancial Public Corp., Long-term,
## 2761                                                                          Gross PSD,
## 2764
## 2767                                                                          Gross PSD,
## 2770
## 2773                                                                      Gross PSD, No
## 2778                                                                      Gross PSD, Non
## 2783                                             Gross PSD, Budgetary Central Gov., All maturities,
## 2786                                                      Gross PSD, Central Gov., All maturities,
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## 2789                                     Gross PSD, Financial Public Corp., All maturities,
## 2792                                            Gross PSD, General Gov., All maturities,
## 2795    Gross PSD, Budgetary Central Gov., Long-term, With payment due in one year or less,
## 2798              Gross PSD, Central Gov., Long-term, With payment due in one year or less,
## 2801    Gross PSD, Financial Public Corp., Long-term, With payment due in one year or less,
## 2804              Gross PSD, General Gov., Long-term, With payment due in one year or less,
## 2807 Gross PSD, Nonfinancial Public Corp., Long-term, With payment due in one year or less,
## 2812   Gross PSD, Budgetary Central Gov., Long-term, With payment due in more than one year,
## 2815             Gross PSD, Central Gov., Long-term, With payment due in more than one year,
## 2818   Gross PSD, Financial Public Corp., Long-term, With payment due in more than one year,
## 2821             Gross PSD, General Gov., Long-term, With payment due in more than one year,
## 2824 Gross PSD, Nonfinancial Public Corp., Long-term, With payment due in more than one year,
## 2829                              Gross PSD, Nonfinancial Public Corp., All maturities,
## 2834                                                                                G
## 2837
## 2840                                                                                G
## 2843
## 2846                                                     Gross PSD, Budgetary Central Gov.,
## 2849                                                            Gross PSD, Central Gov.,
## 2852                                                    Gross PSD, Financial Public Corp.,
## 2855                                                            Gross PSD, General Gov.,
## 2858                                                 Gross PSD, Nonfinancial Public Corp.,
## 2863                                                  Gross PSD, Budgetary Central Gov., L
## 2866                                                         Gross PSD, Central Gov., L
## 2869                                                 Gross PSD, Financial Public Corp., L
## 2872                                                         Gross PSD, General Gov., L
## 2875                                              Gross PSD, Nonfinancial Public Corp., L
## 2880                                                                             Gros
## 2885                                                              Gross PSD, Budgeta
## 2888                                                                    Gross PS
## 2891                                                            Gross PSD, Financi
## 2894                                                                    Gross PS
## 2897                          Gross PSD, Budgetary Central Gov., Long-term, With
## 2900                                 Gross PSD, Central Gov., Long-term, With
## 2903                          Gross PSD, Financial Public Corp., Long-term, With
## 2906                                 Gross PSD, General Gov., Long-term, With
## 2909                       Gross PSD, Nonfinancial Public Corp., Long-term, With
## 2914                        Gross PSD, Budgetary Central Gov., Long-term, With pa
## 2917                               Gross PSD, Central Gov., Long-term, With pa
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## 2920                              Gross PSD, Financial Public Corp., Long-term, With pa
## 2923                                 Gross PSD, General Gov., Long-term, With pa
## 2926                    Gross PSD, Nonfinancial Public Corp., Long-term, With pa
## 2931                                              Gross PSD, Nonfinanci
## 2936                                                Gross PSD, Budgeta
## 2939                                                       Gross PS
## 2942                                                Gross PSD, Financi
## 2945                                                       Gross PS
## 2948                  Gross PSD, Budgetary Central Gov., Long-term, With pa
## 2951                            Gross PSD, Central Gov., Long-term, With pa
## 2954                  Gross PSD, Financial Public Corp., Long-term, With pa
## 2957                              Gross PSD, General Gov., Long-term, With pa
## 2960          Gross PSD, Nonfinancial Public Corp., Long-term, With pa
## 2965                                             Gross PSD, Nonfinanci
## 2970                                                              Gross
## 2973
## 2976                                                          Gross
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## 2982                        Gross PSD, Budgetary Central Gov., Long-term
## 2985                                Gross PSD, Central Gov., Long-term
## 2988                       Gross PSD, Financial Public Corp., Long-term
## 2991                                 Gross PSD, General Gov., Long-term
## 2994               Gross PSD, Nonfinancial Public Corp., Long-term
## 2999                      Gross PSD, Budgetary Central Gov., Long-term,
## 3002                              Gross PSD, Central Gov., Long-term,
## 3005                     Gross PSD, Financial Public Corp., Long-term,
## 3008                               Gross PSD, General Gov., Long-term,
## 3011             Gross PSD, Nonfinancial Public Corp., Long-term,
## 3016                                                     Gross PSD
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## 3056                                              Gross PSD, Budgetary Central Gov., Short-term,
## 3059                                                   Gross PSD, Central Gov., Short-term,
## 3062                                       Gross PSD, Financial Public Corp., Short-term,
## 3065                                                   Gross PSD, General Gov., Short-term,
## 3068                                  Gross PSD, Nonfinancial Public Corp., Short-term,
## 3073
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## 3090                                                                     Gross PSD, Bud
## 3093                                                                          Gros
## 3096                                                                     Gross PSD, Fin
## 3099                                                                          Gros
## 3102                                                               Gross PSD, Nonfin
## 3107                                                                    Gross P
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## 3113                                                                    Gross P
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## 3119                                                               Gross PSD,
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## 10948                                                  GDP on Accommod
## 10949                                                  GDP on Accommoda
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## 10969                                                          GDP on
## 10970                                                       GDP on Huma
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## 10985
## 10986                               GDP on Public Administration, Defen
## 10987                               GDP on Public Administration, Defens
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## 10990
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## 10993
## 10994                                                                 GD
## 10995                                                                GDP
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## 10997                                                                  G
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## 10999
## 11000                       GDP on Wholesales & Retail Trade, Repair
## 11001                       GDP on Wholesales & Retail Trade, Repair o
## 11002
## 11003
## 11004                                 GDP on Water Supply, Sewerag
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## 11005                                        GDP on Water Supply, Sewerage
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## 11086                                                    GDP expendi
## 11087
## 11088                                              GDP expenditure on non
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WDIsearch(string = "military expenditure", field = "name", short = TRUE, cache = NULL)
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