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Reproduce economic indicators from 'The Economist'

Published on October 20, 2020 by Thomas Brand (/author/thomas-brand.html)

DBnomics (/tag/dbnomics.html), database (/tag/database.html), R (/tag/r.html)

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TEXT=REPRODUCE%20ECONOMIC%20INDICATORS%20FROM%20%E2%80%98THE%C2%A0ECONOMIST%E2%80%99%20-%20MACROECONOMIC%20OBSERVATORY&URL=%2FARTICLE%2F2020-10%2FECONOMIC-INDICATORS%2F)

▲ DOWNLOAD (HTTPS://GIT.NOMICS.WORLD/MACRO/INDICATORS)

	Gross domestic product			Industrial production			
	latest	quarter*2021†20	022 [†]	latest			
United States	+0.4 Q1 (https://db.nomics.world/OECD/MEI/USA.NAEXKP01.GYSA.Q)	+1.6 +6.4 +	3.5	+16.9 Apr (https://db.nomics.world/OECD/MEI/USA.PRINTO(
China	+21.2 Q1 (https://db.nomics.world/OECD/MEI/CHN.NAEXCP01.STSA.Q)	-15.9 +8.4 +	-5.6	+5.4 Nov (https://db.nomics.world/IMF/IFS/M.CN.AIP_PC_0			
Japan	-1.5 Q1 (https://db.nomics.world/OECD/MEI/JPN.NAEXKP01.GYSA.Q)	-1.0 +3.3 +	2.5	+14.1 Apr (https://db.nomics.world/OECD/MEI/JPN.PRINTO(
Britain	-6.1 Q1 (https://db.nomics.world/OECD/MEI/GBR.NAEXKP01.GYSA.Q)	-1.6 +5.3 +	5.1	+27.5 Apr (https://db.nomics.world/OECD/MEI/GBR.PRINTO(
Canada	+0.3 Q1 (https://db.nomics.world/OECD/MEI/CAN.NAEXKP01.GYSA.Q)	+1.4 +5.0 +	4.7	+1.7 Mar (https://db.nomics.world/OECD/MEI/CAN.PRINTO(
Euro area	-1.3 Q1 (https://db.nomics.world/OECD/MEI/EA19.NAEXKP01.GYSA.Q)	-0.3 +4.4 +	-3.8	+38.9 Apr (https://db.nomics.world/OECD/MEI/EA19.PRINTO			
Austria	-4.5 Q1 (https://db.nomics.world/OECD/MEI/AUT.NAEXKP01.GYSA.Q)	-1.1 +3.5 +	4.0	+12.6 Mar (https://db.nomics.world/OECD/MEI/AUT.PRINTOC			
Belgium	-0.6 Q1 (https://db.nomics.world/OECD/MEI/BEL.NAEXKP01.GYSA.Q)	+1.0 +4.0 +	3.1	+28.3 Apr (https://db.nomics.world/OECD/MEI/BEL.PRINTOC			
France	+1.2 Q1 (https://db.nomics.world/OECD/MEI/FRA.NAEXKP01.GYSA.Q)	-0.1 +5.8 +	4.2	+43.9 Apr (https://db.nomics.world/OECD/MEI/FRA.PRINTO(
Germany	-3.1 Q1 (https://db.nomics.world/OECD/MEI/DEU.NAEXKP01.GYSA.Q)	-1.8 +3.6 +	3.4	+34.4 Apr (https://db.nomics.world/OECD/MEI/DEU.PRINTO(
Greece	-2.3 Q1 (https://db.nomics.world/OECD/MEI/GRC.NAEXKP01.GYSA.Q)	+4.4 +3.8 +	-5.0	+21.7 Apr (https://db.nomics.world/OECD/MEI/GRC.PRINTO(
Italy	-0.8 Q1 (https://db.nomics.world/OECD/MEI/ITA.NAEXKP01.GYSA.Q)	+0.1 +4.2 +	3.6	+78.6 Apr (https://db.nomics.world/OECD/MEI/ITA.PRINTO0			
Netherlands	-2.3 Q1 (https://db.nomics.world/OECD/MEI/NLD.NAEXKP01.GYSA.Q)	-0.8 +3.5 +	3.0	+8.4 Apr (https://db.nomics.world/OECD/MEI/NLD.PRINTO(
Spain	-4.2 Q1 (https://db.nomics.world/OECD/MEI/ESP.NAEXKP01.GYSA.Q)	-0.4 +6.4 +	4.7	+48.2 Apr (https://db.nomics.world/OECD/MEI/ESP.PRINTO0			
Czech Republic	-2.1 Q1 (https://db.nomics.world/OECD/MEI/CZE.NAEXKP01.GYSA.Q)	-0.3 +4.2 +	4.3	+53.3 Apr (https://db.nomics.world/OECD/MEI/CZE.PRINTOC			
Denmark	-1.3 Q1 (https://db.nomics.world/OECD/MEI/DNK.NAEXKP01.GYSA.Q)	-1.3 +2.8 +	20	+6.6 Apr (https://db.nomics.world/OECD/MEI/DNK.PRINTO(
Norway	-0.2 Q1 (https://db.nomics.world/OECD/MEI/NOR.NAEXKP01.GYSA.Q)	-0.6 +3.9 +	4.0	+0.7 Mar (https://db.nomics.world/OECD/MEI/NOR.PRINTO(
Poland	-1.4 Q1 (https://db.nomics.world/OECD/MEI/POL.NAEXKP01.GYSA.Q)	+1.1 +3.5 +	4.5	+29.7 May (https://db.nomics.world/OECD/MEI/POL.PRINTO(
Russia	-2.0 Q1 (https://db.nomics.world/OECD/MEI/RUS.NAEXKP01.GYSA.Q)	-0.0 +3.8 +	3.8	+0.5 Mar (https://db.nomics.world/OECD/MEI/RUS.PRINTOC			
Sweden	-0.1 Q1 (https://db.nomics.world/OECD/MEI/SWE.NAEXKP01.GYSA.Q)	+0.8 +3.1 +	3.0	+22.7 Apr (https://db.nomics.world/OECD/MEI/SWE.PRINTO(
Switzerland	-0.5 Q1 (https://db.nomics.world/OECD/MEI/CHE.NAEXKP01.GYSA.Q)	-0.5 +3.5 +	2.8	+5.4 Q4 (https://db.nomics.world/OECD/MEI/CHE.PRINTO(
Turkey	+6.7 Q1 (https://db.nomics.world/OECD/MEI/TUR.NAEXKP01.GYSA.Q)	+1.7 +6.0 +	.2 5	+65.4 Apr (https://db.nomics.world/OECD/MEI/TUR.PRINTO(
Australia	+1.1 Q1 (https://db.nomics.world/OECD/MEI/AUS.NAEXKP01.GYSA.Q)	+1.8 +4.5 +	-2.8	-1.6 Q1 (https://db.nomics.world/OECD/MEI/AUS.PRINTO(
Hong Kong	+8.0 Q1 (https://db.nomics.world/IMF/IFS/Q.HK.NGDP_R_SA_XDC)	+5.4 +4.3 +	-3.8	-6.0 Q4 [‡] (https://db.nomics.world/IMF/IFS/Q.HK.AIPMA_PC			
India	+1.8 Q1 (https://db.nomics.world/OECD/MEI/IND.NAEXKP01.GYSA.Q)	+2.1 +12.5 +	6.9	+2.6 Dec (https://db.nomics.world/OECD/MEI/IND.PRINTOC			
Source: DBnomics (Eurostat, ILO, IMF, OECD and national sources). Click on the figures in the `latest` columns to see the full time series.							

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 $^{^{*}}$ % change on previous quarter, annual rate † IMF estimation/forecast ‡ 2020 § 2019

	Gross domestic product		Industrial production		
	latest	quarter	*2021 [†]	2022 [†]	
Indonesia	-0.5 Q1 (https://db.nomics.world/OECD/MEI/IDN.NAEXKP01.GYSA.Q)	+1.6	+4.3	+5.8	-3.7 Apr [§] (https://db.nomics.world/IMF/IFS/M.ID.AIPMA_PC
Malaysia	+4.4 Q4 [§] (https://db.nomics.world/BI/TABEL9_1/21.Q)	NA	+6.5	+6.0	+3.1 Mar [§] (https://db.nomics.world/IMF/IFS/M.MY.AIP_PC_
Pakistan	-0.4 Year[‡] (https://db.nomics.world/IMF/WEO:2021- 04/PAK.NGDP_RPCH.pcent_change)	NA	+1.5	+4.0	+23.0 Mar (https://db.nomics.world/IMF/IFS/M.PK.AIPMA_PC
Philippines	-0.1 Q1 [‡] (https://db.nomics.world/IMF/IFS/Q.PH.NGDP_R_SA_XDC)	-5.1	+6.9	+6.5	-73.4 Mar (https://db.nomics.world/IMF/IFS/M.PH.AIPMA_PC
Singapore	+1.1 Q4 [§] (https://db.nomics.world/IMF/IFS/Q.SG.NGDP_R_SA_XDC)	+0.2	+5.2	+3.2	+8.6 Jan (https://db.nomics.world/IMF/IFS/M.SG.AIPMA_PC
South Korea	+1.9 Q1 (https://db.nomics.world/OECD/MEI/KOR.NAEXKP01.GYSA.Q)	+1.7	+3.6	+2.8	+8.9 Apr (https://db.nomics.world/OECD/MEI/KOR.PRINTO(
Taiwan	+3.0 Q4 [§] (https://db.nomics.world/BI/TABEL9_1/17.Q)	NA	+4.7	+3.0	NA
Thailand	-2.6 Q1 (https://db.nomics.world/IMF/IFS/Q.TH.NGDP_R_SA_XDC)	+0.2	+2.6	+5.6	-6.6 Q1 [‡] (https://db.nomics.world/IMF/IFS/Q.TH.AIPMA_PC
Argentina	+2.2 Q1	+2.6	+5.8	+2 5	+4.4 Q3
, a geneme	https://db.nomics.world/Eurostat/naidq_10_gdp/Q.SCA.KP_I10.B1GQ.AR))	. 5.0		(https://db.nomics.world/IMF/IFS/Q.AR.AIPMA_PC
Brazil	+2.3 Q1 (https://db.nomics.world/OECD/MEI/BRA.NAEXKP01.GYSA.Q)	+1.2	+3.7	+2.6	+32.2 Apr (https://db.nomics.world/OECD/MEI/BRA.PRINTO(
Chile	+1.2 Q1 (https://db.nomics.world/OECD/MEI/CHL.NAEXKP01.GYSA.Q)	+3.2	+6.2	+3.8	$+5.2~{\rm Apr}$ (https://db.nomics.world/OECD/MEI/CHL.PRINTO(
Colombia	+2.0 Q1 (https://db.nomics.world/OECD/MEI/COL.NAEXKP01.GYSA.Q)	+2.9	+5.2	+3.6	-1.1 Dec (https://db.nomics.world/OECD/MEI/COL.PRINTO(
Mexico	-2.8 Q1 (https://db.nomics.world/OECD/MEI/MEX.NAEXKP01.GYSA.Q)	+0.8	+5.0	+3.0	-29.3 Apr [‡] (https://db.nomics.world/IMF/IFS/M.MX.AIP_PC
Peru	-11.1 Year [‡] (https://db.nomics.world/IMF/WEO:2021- 04/PER.NGDP_RPCH.pcent_change)	NA	+8.5	+5.2	+20.3 Apr (https://db.nomics.world/IMF/IFS/M.PE.AIPMA_PC
Egypt	+3.6 Year [‡] (https://db.nomics.world/IMF/WEO:2021- 04/EGY.NGDP_RPCH.pcent_change)	NA	+2.5	+5.7	+6.2 Mar (https://db.nomics.world/IMF/IFS/M.EG.AIP_PC_0
Israel	-0.4 Q1 (https://db.nomics.world/OECD/MEI/ISR.NAEXKP01.GYSA.Q)	-1.6	+5.0	+4.3	+11.6 Mar (https://db.nomics.world/OECD/MEI/ISR.PRINTO0
Saudi Arabia	-2.3 Q1 (https://db.nomics.world/IMF/IFS/Q.SA.NGDP_R_SA_XDC)	-0.5	+2.9	+4.0	+1.6 Q3 (https://db.nomics.world/IMF/IFS/Q.SA.AIPMA_PC
South Africa	-2.7 Q1 (https://db.nomics.world/OECD/MEI/ZAF.NAEXKP01.GYSA.Q)	+1.1	+3.1	+2.0	+1.3 Aug (https://db.nomics.world/IMF/IFS/M.ZA.AIPMA_PC

Source: DBnomics (Eurostat, ILO, IMF, OECD and national sources). Click on the figures in the `latest` columns to see the full time series.

The aim of this blog post is to reproduce part of the economic indicators table from <u>'The Economist'</u> (https://www.economist.com/economic-and-financial-

indicators/2018/03/20/economic-and-financial-indicators) using only free tools. We take data directly from DBnomics (https://db.nomics.world/). The DBnomics API can be accessed through R with the rdbnomics (https://cran.r-project.org/web/packages/rdbnomics/index.html) package. All the following code is written in R, thanks to the RCoreTeam (2016) and the RStudioTeam (2016). To update the table, just download the code here (https://git.nomics.world/macro/indicators) and re-run it.

```
if (!"pacman" %in% installed.packages()[,"Package"]) install.packages("pacman", re
pos='http://cran.r-project.org')
pacman::p_load(tidyverse,rdbnomics,magrittr,zoo,lubridate,knitr,kableExtra,formatt
able)
opts_chunk$set(fig.align="center", message=FALSE, warning=FALSE)
currentyear <- year(Sys.Date())</pre>
lastyear <- currentyear-1
beforelastyear <- currentyear-2</pre>
CountryList <- c("United States", "China", "Japan", "Britain", "Canada",
                  "Euro area", "Austria", "Belgium", "France", "Germany", "Greece", "Ital
y", "Netherlands", "Spain",
                  "Czech Republic", "Denmark", "Norway", "Poland", "Russia", "Sweden", "S
witzerland", "Turkey",
                  "Australia", "Hong Kong", "India", "Indonesia", "Malaysia", "Pakista
n", "Philippines", "Singapore", "South Korea", "Taiwan", "Thailand",
                  "Argentina", "Brazil", "Chile", "Colombia", "Mexico", "Peru",
                  "Egypt", "Israel", "Saudi Arabia", "South Africa")
```

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 $^{^*}$ % change on previous quarter, annual rate † IMF estimation/forecast ‡ 2020 § 2019

```
gdp <- rdb("OECD","MEI",ids=".NAEXKP01.GPSA+GYSA.Q")</pre>
hongkong philippines thailand saudi singapore gdp level <-
  rdb("IMF","IFS",mask="Q.HK+PH+TH+SA+SG.NGDP_R_SA_XDC") %>%
  rename(Country=`Reference Area`) %>%
  mutate(Country=case_when(Country=="Hong Kong, China" ~ "Hong Kong",
                            TRUE ~ Country))
gdp_qoq_hongkong_philippines_thailand_saudi_singapore <-</pre>
  hongkong_philippines_thailand_saudi_singapore_gdp_level %>%
  arrange(Country,period) %>%
  group_by(Country) %>%
  mutate(value=(value/lag(value)-1)*100,
         MEASURE="GPSA")
gdp_yoy_hongkong_philippines_thailand_saudi_singapore <-</pre>
  hongkong_philippines_thailand_saudi_singapore_gdp_level %>%
  arrange(Country,period) %>%
 mutate(quarter=quarter(period)) %>%
  group_by(Country,quarter) %>%
  mutate(value=(value/lag(value)-1)*100,
         MEASURE="GYSA")
malaysia gdp <-
  rdb("BI/TABEL9_1/21.Q") %>%
  mutate(Country="Malaysia",
         MEASURE="GYSA")
taiwan_gdp <-
  rdb("BI/TABEL9_1/17.Q") %>%
  mutate(Country="Taiwan",
         MEASURE="GYSA")
egypt_pakistan_peru_gdp <-
  rdb("IMF","WEO:latest",mask="EGY+PAK+PER.NGDP_RPCH") %>%
  rename(Country=`WEO Country`) %>%
  mutate(MEASURE="GYSA") %>%
  filter(year(period)<currentyear)</pre>
china_gdp_level <-</pre>
  rdb(ids="OECD/MEI/CHN.NAEXCP01.STSA.Q")
gdp_qoq_china <-</pre>
  china_gdp_level %>%
  arrange(period) %>%
  mutate(value=(value/lag(value)-1)*100,
         MEASURE="GPSA")
gdp_yoy_china <-</pre>
  china_gdp_level %>%
  arrange(period) %>%
 mutate(quarter=quarter(period)) %>%
  group_by(quarter) %>%
 mutate(value=(value/lag(value)-1)*100,
         MEASURE="GYSA")
argentina_gdp_level <-</pre>
  rdb(ids="Eurostat/naidq_10_gdp/Q.SCA.KP_I10.B1GQ.AR") %>%
  rename(Country=`Geopolitical entity (reporting)`)
gdp_qoq_argentina <-</pre>
  argentina_gdp_level %>%
  arrange(period) %>%
  mutate(value=(value/lag(value)-1)*100,
         MEASURE="GPSA")
gdp_yoy_argentina <-</pre>
  argentina_gdp_level %>%
  arrange(period) %>%
  mutate(quarter=quarter(period)) %>%
  group_by(quarter) %>%
 mutate(value=(value/lag(value)-1)*100,
         MEASURE="GYSA")
gdp <- bind_rows(gdp,</pre>
                  gdp_qoq_hongkong_philippines_thailand_saudi_singapore,
                  gdp_yoy_hongkong_philippines_thailand_saudi_singapore,
                 malaysia_gdp,
                  taiwan_gdp,
                 egypt_pakistan_peru_gdp,
```

```
gdp_yoy_china,
                  gdp_qoq_china,
                  gdp_yoy_argentina,
                 gdp_qoq_argentina)
indprod <- rdb("OECD","MEI",ids=".PRINTO01.GYSA.M")</pre>
australia_swiss_indprod <- rdb("OECD","MEI","AUS+CHE.PRINTO01.GYSA.Q")</pre>
china_egypt_mexico_malaysia_indprod <-</pre>
  rdb("IMF","IFS",mask="M.CN+EG+MX+MY.AIP_PC_CP_A_PT") %>%
  rename(Country=`Reference Area`)
indonesia_pakistan_peru_philippines_singapore_southafrica_indprod <-</pre>
  rdb("IMF","IFS",mask="M.ID+PK+PE+PH+SG+ZA.AIPMA_PC_CP_A_PT") %>%
  rename(Country=`Reference Area`)
argentina_hongkong_saudiarabia_thailand_indprod <-</pre>
  rdb("IMF","IFS",mask="Q.AR+HK+SA+TH.AIPMA_PC_CP_A_PT") %>%
  rename(Country=`Reference Area`) %>%
  mutate(Country=case_when(Country=="Hong Kong, China" ~ "Hong Kong",
                            TRUE ~ Country))
indprod <- bind_rows(indprod,australia_swiss_indprod,china_egypt_mexico_malaysia_i</pre>
ndprod,indonesia_pakistan_peru_philippines_singapore_southafrica_indprod,argentina
_hongkong_saudiarabia_thailand_indprod)
cpi <- rdb("OECD", "MEI", ids=".CPALTT01.GY.M")</pre>
australia_cpi <- rdb("OECD","MEI",ids="AUS.CPALTT01.GY.Q")</pre>
taiwan_cpi <-
  rdb("BI/TABEL9_2/17.Q") %>%
 mutate(Country="Taiwan")
other cpi <-
  rdb("IMF","IFS",mask="M.EG+HK+MY+PE+PH+PK+SG+TH.PCPI_PC_CP_A_PT") %>%
  rename(Country=`Reference Area`) %>%
 mutate(Country=case_when(Country=="Hong Kong, China" ~ "Hong Kong",
                            TRUE ~ Country))
cpi <- bind_rows(cpi,australia_cpi,taiwan_cpi,other_cpi)</pre>
unemp <- rdb("OECD","MEI",ids=".LRHUTTTT.STSA.M")</pre>
swiss_unemp <- rdb("OECD","MEI",mask="CHE.LMUNRRTT.STSA.M")</pre>
brazil_unemp <- rdb("OECD","MEI",mask="BRA.LRUNTTTT.STSA.M")</pre>
southafrica_russia_unemp <- rdb("OECD","MEI",mask="ZAF+RUS.LRUNTTTT.STSA.Q")</pre>
china unemp <-
 rdb(ids="BUBA/BBXL3/Q.CN.N.UNEH.TOTAL0.NAT.URAR.RAT.I00") %>%
 mutate(Country="China")
saudiarabia_unemp <-
  rdb(ids="ILO/UNE_DEAP_SEX_AGE_RT/SAU.BA_627.AGE_AGGREGATE_TOTAL.SEX_T.A") %>%
  rename(Country=`Reference area`) %>%
  filter(year(period)<currentyear)</pre>
india_unemp <-
  rdb(ids="ILO/UNE_2EAP_SEX_AGE_RT/IND.XA_1976.AGE_YTHADULT_YGE15.SEX_T.A") %>%
  rename(Country=`Reference area`) %>%
  filter(year(period)<currentyear)</pre>
indonesia_pakistan_unemp <-</pre>
  rdb("ILO", "UNE DEAP SEX AGE EDU RT", mask="IDN+PAK..AGE AGGREGATE TOTAL.EDU AGGRE
GATE_TOTAL.SEX_T.Q") %>%
  rename(Country=`Reference area`)
other_unemp <-
  rdb("ILO", "UNE_DEA1_SEX_AGE_RT", mask="ARG+EGY+HKG+MYS+PER+PHL+SGP+THA+TWN..AGE_Y
THADULT_YGE15.SEX_T.Q") %>%
  rename(Country=`Reference area`) %>%
  mutate(Country=case_when(Country=="Hong Kong, China" ~ "Hong Kong",
                            Country=="Taiwan, China" ~ "Taiwan",
                            TRUE ~ Country))
unemp <- bind_rows(unemp,brazil_unemp,southafrica_russia_unemp,swiss_unemp,china_u</pre>
nemp,saudiarabia_unemp,india_unemp,indonesia_pakistan_unemp,other_unemp)
forecast_gdp_cpi_ea <-</pre>
  rdb("IMF","WEOAGG:latest",mask="163.NGDP_RPCH+PCPIPCH") %>%
  rename(`WEO Country`=`WEO Countries group`)
forecast_gdp_cpi <-</pre>
```

```
rdb("IMF","WEO:latest",mask=".NGDP_RPCH+PCPIPCH") %>%
 bind_rows(forecast_gdp_cpi_ea) %>%
 transmute(Country=`WEO Country`,
            var=`WEO Subject`,
            value,
            period) %>%
 mutate(Country=str_trim(Country),
         var=str_trim(var)) %>%
 mutate(Country=case_when(Country=="United Kingdom" ~ "Britain",
                            Country=="Hong Kong SAR" ~ "Hong Kong",
                            Country=="Korea" ~ "South Korea",
                            Country=="Taiwan Province of China" ~ "Taiwan",
                            TRUE ~ Country),
         \label{eq:var=case_when} $$ (var=="Gross domestic product, constant prices" $$ \sim "GDP", $$ $$ $$
                        var=="Inflation, average consumer prices" ~ "CPI",
                        TRUE ~ var))
forecast_gdp_cpi <- left_join(data.frame(Country=CountryList),forecast_gdp_cpi,by</pre>
="Country")
```

Transform

```
gdp_yoy_latest_period <-</pre>
  gdp %>%
  filter(MEASURE=="GYSA") %>%
  filter(!is.na(value)) %>%
  group_by(Country) %>%
  summarise(period=max(period))
gdp_yoy_latest <-</pre>
  gdp %>%
  filter(MEASURE=="GYSA") %>%
  inner_join(gdp_yoy_latest_period) %>%
  mutate(var="GDP",measure="latest")
gdp_qoq_latest_period <-</pre>
  gdp %>%
  filter(MEASURE=="GPSA") %>%
 filter(!is.na(value)) %>%
  group_by(Country) %>%
  summarise(period=max(period))
gdp_qoq_latest <-</pre>
  gdp %>%
  filter(MEASURE=="GPSA") %>%
  inner_join(gdp_qoq_latest_period) %>%
 mutate(var="GDP",
         measure="quarter")
gdp_2021_2022 <-
  forecast gdp cpi %>%
  filter(var=="GDP" & (period=="2021-01-01" | period=="2022-01-01")) %>%
  mutate(measure=as.character(year(period)))
indprod_latest_period <-</pre>
  indprod %>%
  filter(!is.na(value)) %>%
  group_by(Country) %>%
  summarise(period=max(period))
indprod latest <-
  indprod %>%
  inner_join(indprod_latest_period) %>%
 mutate(var="indprod", measure="latest")
cpi_latest_period <-</pre>
  cpi %>%
  filter(!is.na(value)) %>%
  group_by(Country) %>%
  summarise(period=max(period))
cpi_latest <-</pre>
  cpi %>%
  inner_join(cpi_latest_period) %>%
  mutate(var="CPI",measure="latest")
cpi_2021 <-
  forecast_gdp_cpi %>%
  filter(var=="CPI" & period=="2021-01-01") %>%
  mutate(measure=as.character(year(period)))
unemp_latest_period <-</pre>
 unemp %>%
 filter(!is.na(value)) %>%
  group_by(Country) %>%
  summarise(period=max(period))
unemp_latest <-
  unemp %>%
  inner_join(unemp_latest_period) %>%
  mutate(var="unemp", measure="latest")
```

Merge

```
df_all <-
  bind rows(gdp yoy latest,gdp qoq latest,gdp 2021 2022,indprod latest,cpi latest,
cpi_2021,unemp_latest) %>%
  mutate(value=ifelse(value>=0,
                      paste0("+",sprintf("%.1f",round(value,1))),
                      sprintf("%.1f",round(value,1)))) %>%
  unite(measure,c(var,measure))
df_latest <-</pre>
  df_all %>%
  filter(measure %in% c("GDP_latest","indprod_latest","CPI_latest","unemp_lates
 mutate(value=case_when(`@frequency`=="quarterly" ~ paste(value," Q",quarter(peri
od),sep=""),
                         `@frequency`=="monthly" ~ paste(value," ",month(period,la
bel = TRUE, abbr = TRUE, locale = "en_US.utf8"),sep=""),
                          `@frequency`=="annual" ~ paste(value," Year",sep=""),
                         TRUE ~ value)) %>%
 mutate(value=text_spec(ifelse(year(period)==lastyear,paste0(value,footnote_marke
r_symbol(3)),
                                ifelse(year(period)==beforelastyear,paste0(value,f
ootnote_marker_symbol(4)), value)),
                         link = paste("https://db.nomics.world",provider_code,data
set_code,series_code,sep = "/"),
                         color = "#333333",escape = F,extra_css="text-decoration:n
one"))
df_final <-</pre>
  df all %>%
  filter(measure %in% c("GDP_quarter","GDP_2021","GDP_2022","CPI_2021")) %>%
  bind_rows(df_latest) %>%
  mutate(Country=case_when(Country=="United Kingdom" ~ "Britain",
                           Country=="Euro area (19 countries)" ~ "Euro area",
                           Country=="China (People's Republic of)" ~ "China",
                           Country=="Korea" ~ "South Korea",
                           TRUE ~ Country)) %>%
  select(Country, value, measure) %>%
  spread(measure, value) %>%
  select(Country,GDP_latest,GDP_quarter,GDP_2021,GDP_2022,indprod_latest,CPI_lates
t,CPI_2021,unemp_latest)
df_final <- left_join(data.frame(Country=CountryList),df_final,by="Country")</pre>
```

Display

```
names(df_final)[1] <- ""</pre>
names(df final)[2] <- "latest"</pre>
names(df_final)[3] <- paste0("quarter",footnote_marker_symbol(1))</pre>
names(df_final)[4] <- paste0("2021",footnote_marker_symbol(2))</pre>
names(df_final)[5] <- paste0("2022",footnote_marker_symbol(2))</pre>
names(df_final)[6] <- "latest"</pre>
names(df_final)[7] <- "latest"</pre>
names(df_final)[8] <- paste0("2021",footnote_marker_symbol(2))</pre>
names(df_final)[9] <- "latest"</pre>
df_final %>%
  kable(row.names = F,escape = F,align = c("1",rep("c",8)),caption = "Economic dat
a (% change on year ago)") %>%
  kable_styling(bootstrap_options = c("striped", "hover", "responsive"), fixed_thea
d = T, font_size = 13) %>%
  add_header_above(c(" " = 1, "Gross domestic product" = 4, "Industrial production
" = 1, "Consumer prices"= 2, "Unemployment rate, %"=1)) %>%
  column_spec(1, bold = T) %>%
  row_spec(seq(1,nrow(df_final),by=2), background = "#D5E4EB") %>%
  row_spec(c(5,14,22,33,39),extra_css = "border-bottom: 1.2px solid") %>%
  footnote(general = "DBnomics (Eurostat, ILO, IMF, OECD and national sources). Cl
ick on the figures in the `latest` columns to see the full time series.",
           general_title = "Source: ",
           footnote_as_chunk = T,
           symbol = c("% change on previous quarter, annual rate ", "IMF estimatio
n/forecast", paste0(lastyear),paste0(beforelastyear)))
```

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