Data and motivation

# US Real Gross Domestic Product

Billions of Chained 2012 Dollars, Not Seasonally Adjusted

<https://fred.stlouisfed.org/series/ND000334Q>



## Real Gross Domestic Product for European Union

Millions of Chained 2010 Euros, Seasonally Adjusted

<https://fred.stlouisfed.org/series/CLVMNACSCAB1GQEU28>

## Real Gross Domestic Product for Japan

Billions of Chained 2015 Yen, Seasonally Adjusted

<https://fred.stlouisfed.org/series/JPNRGDPEXP>







* dlog(us) c @expand(@quarter, @drop(1)) q2y08 q3y08 q4y08 q1y20 q2y20 q3y20
* 