



Real GDP

For 2019 **real** GDP we use prices paid in **base** year



2019 **Real** GDP use  
**quantities** purchased in  
**2019** but uses prices  
paid in the **base year**

A red speech bubble with a white background and a red outline. The bubble has a tail pointing towards the top-left. Inside the bubble, the following text is written:

Since prices are **fixed at**  
**base year prices**, we know  
changes in **Real** GDP are  
due to a change in  
**quantities** not prices

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= \$11,000B

$$\left( Q_{\text{apples}}^{2019} \times P_{\text{apples}}^{\text{base year}} \right)$$

$$+ (Q_{\text{computers}}^{2019} \times P_{\text{computers}}^{\text{base year}})$$



$$+ (Q_{\text{haircuts}}^{2019} \times P_{\text{haircuts}}^{\text{base year}})$$

$$+ (Q_{\text{cars}}^{2019} \times P_{\text{cars}}^{\text{base year}})$$

$$+ (Q_{\text{houses}}^{2019} \times P_{\text{Houses}}^{\text{base year}})$$

+

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For 2019 **real** GDP we use prices paid in **base year**

$$(Q_{\text{apples}}^{2019} \times P_{\text{apples}}^{\text{base year}}) + (Q_{\text{computers}}^{2019} \times P_{\text{computers}}^{\text{base year}}) + (Q_{\text{haircuts}}^{2019} \times P_{\text{haircuts}}^{\text{base year}}) \\ + (Q_{\text{cars}}^{2019} \times P_{\text{cars}}^{\text{base year}}) + (Q_{\text{houses}}^{2019} \times P_{\text{Houses}}^{\text{base year}}) + \dots = \$11,000\text{B}$$

2019 **Real** GDP use **quantities** purchased in **2019** but uses prices paid in the **base year**

## Real GDP

Since prices are **fixed at base year prices**, we know changes in **Real** GDP are due to a change in **quantities** not prices

Nominal GDP

Real GDP