## You lend \$100,000 at 9% Nominal interest in 2020 to be repaid in 2021

## The borrower pays back = 100,000(1.09)=109,000



CPI = 210

2020

CPI = ?

2021

#### You want to earn a 4% Real interest rate

# You earn Interest Income = $100,000 \times 0.09 = $9,000$

#### If the tax on interest income is 25%

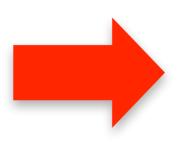
Tax you owe	$$9,000 \times 0.25 = 2,250$
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### If the tax on interest income was charged on the Real interest

## Tax you really owe $$4,000 \times 0.25 = 1,000$

You earn	Real Interest Income = $100,000 \times 0.04 = $4,000$

#### Even though your Real Income was only \$4,000 the government still makes you pay \$2,250



### You pay 56% instead of the 25% you are supposed to pay by law

# $\frac{2,250}{-----}$ x 100 = 56% effective tax!

4,000



You want to earn a 4% Real interest rate

You lend \$100,000 at 9% Nominal interest in 2020 to be repaid in 2021

The borrower pays back = 100,000(1.09)=109,000

You earn

Interest Income =  $100,000 \times 0.09 = $9,000$ 

If the tax on interest income is 25%

Tax you owe

 $$9,000 \times 0.25 = 2,250$ 



Real Interest Income =  $100,000 \times 0.04 = $4,000$ 

Even though your Real Income was only \$4,000 the government still makes you pay \$2,250

2,250

-x 100 = 56% effective tax!

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