FINANCIAL LITERACY 101

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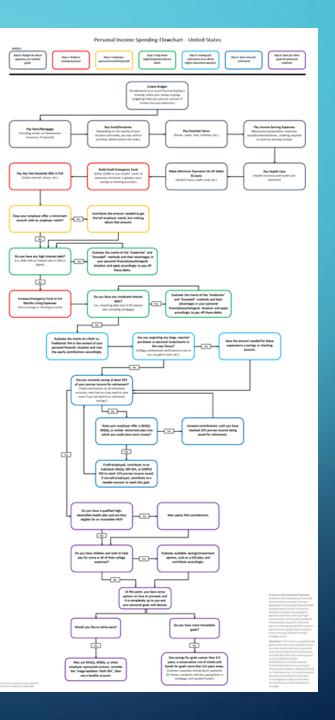
"NOT-SO-FUN" FACTS

- Based on the 50/30/20 budgeting rule:
 - 50% to "needs", 30% to "wants", 20% to saving
 - Median necessary living wage in US is \$67,690 (2021)^[1]
- Median US Household income: \$68,703 (2019) ^[2]
 - At least half of the population makes enough money to save 20% annually
- But 69% of American adults do not have \$1,000 in their saving accounts (2019)^[3]
- Where did the money go?



R/PERSONALFINANCE THE FLOWCHART

- A subreddit community created a flowchart on how to handle money
- "I have \$X, what should I do with it?"



OVERALL PHASES

PHASES:

Step 0: Budget & reduce expenses, set realistic goals

Step 1: Build an emergency fund

Step 2: Employersponsored matching funds

Step 3: Pay down high/moderate interest debts

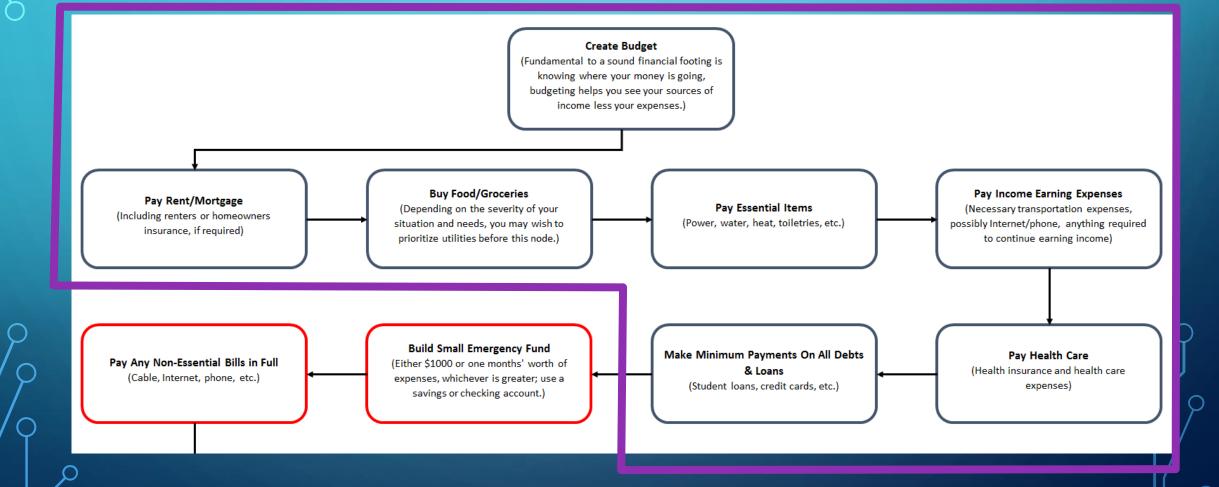
Step 4: Savings for retirement in an IRA & higher education expenses

Step 5: Save more for retirement

Step 6: Save for other goals & advanced methods

Step 0: Budget & reduce expenses, set realistic goals

PHASE O: BUDGETING AND SURVIVE



Step 0: Budget & reduce expenses, set realistic goals

BUDGET RULE #1: SPEND LESS THAN YOU EARN

	Net Income at	ter taxes and oth	er deduct	tions					
		Estimate Monthly Budget	December 20	January	February	March	April		
Income	Paycheck into pocket 🥢	\$2,000.00	\$2,250.86	\$2,148.56	<u>\$2,265.02</u>	\$2,265.02	\$2,330.86		
	Rent	-\$689.00	-\$666.00	-\$666.00	-\$682.43	-\$689.00	-\$689.00		
	TEP (Electricity)	-\$100.00	-\$55.53	-\$93.36	-\$130.56	\$110.03	-\$83.70		
Monthly	Cox (Internet)	-\$110.00	-\$108.59	-\$108.60	-\$108.60	-\$108.60	-\$108.60		
Deducted	Water/Sewer & Trash	-\$70.00	-\$56.38	-\$52.71	-\$54.81	-\$48.57	\$0.00		
Expenses	Verizon (Phone)	-\$60.00	-\$58.22	-\$58.24	-\$58.33	-\$58.33	-\$58.33		
-	GEICO (Auto Insurance)	-\$120.00	-\$117.64	-\$117.64	-\$117.61	-\$109.96	🔁 Keer	o track of	
	Spotify	-\$10.60	-\$10.60	-\$10.60	-\$10.60	-\$10.60			
Food	Grocery/Gas	-\$350.00	-\$314.54	-\$278.67	-\$341.35	-\$340./2	- recei	ipts/credi	
FUUU	Eat Out/Snacks	-\$250.00	\$0.00	\$0.00	\$0.00	\$0.00	card	records c	
	Laundary	-\$25.00	-\$14.75	-\$19.50	-\$8.25	-\$71.00			
Misc	Essential Misc (Cash, Car Checkup, Haircut, Amazon, etc)	-\$100.00	-\$82.16	-\$66.72	-\$38.74	-\$61.67	comp	oile the to	
	Travel, Non-Essential Misc (Nintendo Online, Gaming, etc)	-\$200.00	\$0.00	-\$8.65	\$0.00	\$0.00	- at th	e end of t	
Annual	Subscriptions (Renter Insurance, Amazon Prime)	\$0.00	\$0.00	\$0.00	\$283.26	-\$240.68	mont	h	
Items	Timebank Payout, Tax Return, Profit Sharing	\$0.00	\$0.00	\$1,183.00	\$1,145.00	\$1,667.00	mom	n	
Investment	ESRP Withdrawal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
	ІТОТ	-\$500.00	-\$700.00	-\$1,000.00	-\$1,000.00	-\$1,000.00	\$0.00		
	Roth IRA	\$0.00	\$0.00	\$0.00	\$0.00	-\$1,000.00	-\$1,000.00		
	Separate out large annual it	ems to not							
Total Expenses		-\$2,584.60	-\$2,194.41	-\$1,297.69	-\$1,689.54	-\$2,132.16	-\$2,549.00		
Monthly Total throw the monthly budget off		balance _{-\$584.60}	\$56.45	\$850.87	\$575.48	\$132.86	-\$218.14		
		*Non-Essential Items							

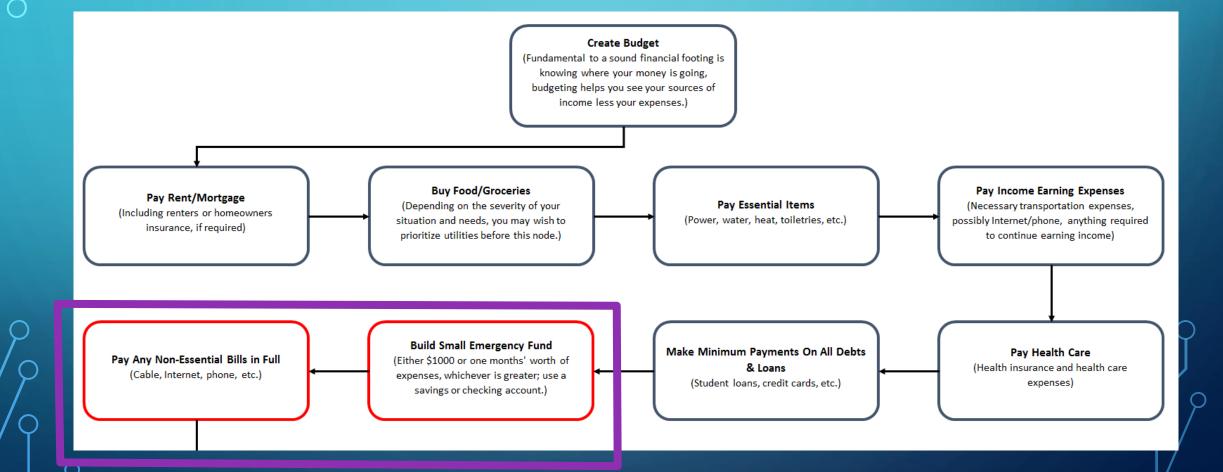
HOUSING COST

• For most people, housing is the biggest monthly expense

- General rule: try to spend no more than 30% of gross income on housing ^[4]
 - Gross income = income before taxes and other deductions
 - Housing cost includes utilities; for owner, includes property taxes and maintenance
- At some cities it might be difficult to follow, i.e. NYC, LA, and SF
- Be cautious that the higher the gross income, a higher percentage goes to taxes
 - Effective tax rate goes up as your gross income goes up
 - If your effective tax rate is 35% and you put another 30% to housing, you will only have 35% for everything else
 - High-Income earners should consider budgeting with after-tax income instead

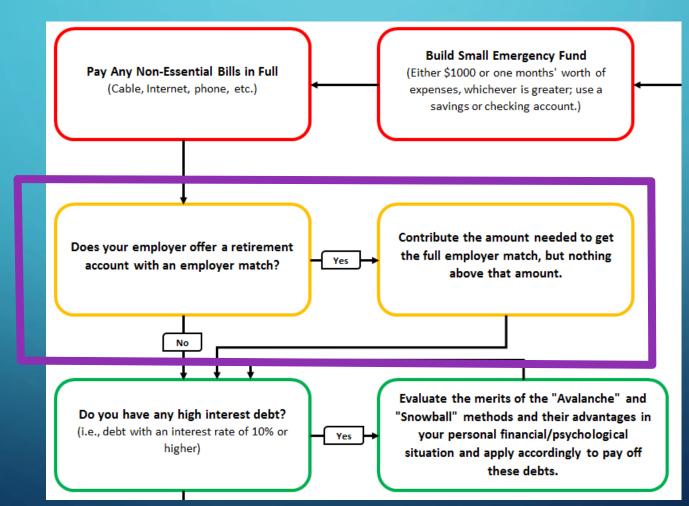
Step 1: Build an emergency fund

PHASE 1: SMALL EMERGENCY FUND



Step 2: Employersponsored matching funds

PHASE 2: RETIREMENT MATCHING



Step 2: Employersponsored matching funds

RETIREMENT MATCH IS FREE MONEY!

- Employer match is typically under a 401(k) account
 - Other plans include 403(b) and 457(b) plans (usually for government employees)
- What does matching mean?
 - Example: An entry electrical engineer John makes \$68,000 annually and his company matches 50% of what he puts into his 401(k) account, up to 6% of his pre-tax salary.
 - If John wants the full match amount, he has to put in $68,000 \times 6\% = 4,080$
 - Employer matches 50%: $$4,080 \times 50\% = $2,040$ free money

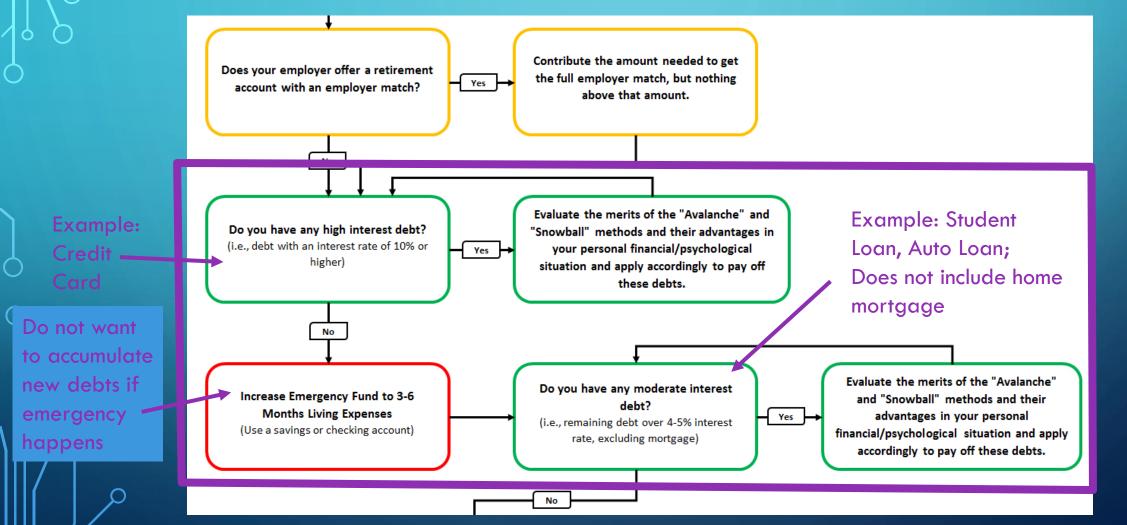
Step 2: Employersponsored matching funds

BUT WHAT IF...?

• Why should I worry about retirement now? Spend now and not lock money inside 401(k).

- Stock market grows exponentially in long-term. Let time work in your favor and invest early.
- Spend responsibly and enjoy life now. But also plan ahead. You are likely to reach retirement age.
- My 401(k) plan does not have good investment options?
 - Take it! It is free money! Free money is better than no money!
- My 401(k) provider has high management fee?
 - It is free money!
- I still have debts to pay off. Shouldn't I target them first?
 - It is free money! Contribute just enough to get the free money first.
- It cannot be right! Why would my company give me free money?
 - Government provides tax breaks to offset the cost of the matching
 - Companies repackage it as "benefits" to attract potential employees

PHASE 3: PAY DOWN DEBTS



AVALANCHE VS SNOWBALL METHODS

- After making minimum payments on all debts and loans (Phase 0), ...
- Avalanche Method:
 - Extra money going to the debt with the highest interest rate
 - Mathematically superior
- Debt Consolidation
 - Combine multiple debts into one, and sometimes it comes with a higher weighted interest rate
 - You might not get approved with a bad credit score and a high debt utilization ratio
- Snowball Method:
 - Dave Ramsey: Extra money to the debt with the smallest balance
 - Psychological reward/motivation for those who lack of self discipline

COMMON NEW GRAD MISTAKE: CAR

- #1: Lease a new car
 - Average \$467 monthly car lease payment (2020)^[5] even when the driver never own the vehicle
 - Basically a never-ending loan to exchange for driving a new car every couple years

• #2: Finance a new car

- What about 0% down, 0% APR car loan for 60-72 months?
- Trap#1: Your vehicle might depreciate faster than your loan balance
- Trap#2: Average lifespan of a vehicle is about 12 years or 200,000 miles ^[6]; but
- Average length of car ownership is about 80 months ^[7]
- Average \$568 monthly loan payment (2020) ^[5]

COMMON NEW GRAD MISTAKE: FINANCING

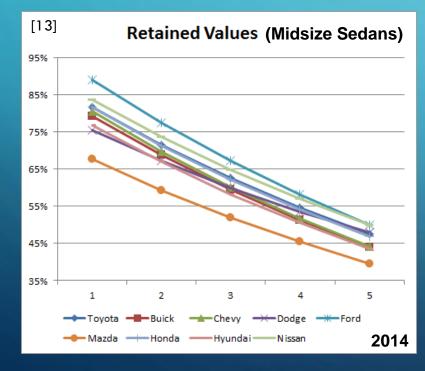
- Ground Rules on financing a new/used vehicle ^[8]: 20/3/8
 - Put at least 20% to protect from depreciation
 - Monthly payment should be less than 8% of your monthly gross income; 3 years max
 - You should invest more for retirement than spending on your car payment
- Some car brands/models depreciate slower and have lower maintenance cost
- 0% down, 0% APR loan encourages lifestyle creep
 - Not just vehicles, but also: cell phones, personal electronics, furniture, ...
 - "Buy Now, Pay later": "Broke Now, Broke Later" ^[9]

CASE STUDY: BUYING NEW LUXURY CAR WITH CASH

- Now what if you have the mean to buy a luxury car in cash? Should you do it?
- Let say you are set to buy a new car, and you are comparing the following:
 - 2021 Toyota Corolla: \$20,000 [10]
 - 2021 Tesla Model 3: \$39,000 [11]
- For simplification, this does not include the cost of taxes, insurance, maintenance
- What is the harm?
 - Average US stock market annual return is about 10% ^[12]
 - 7% adjusted for inflation
- If you put the difference \$19,000 invested into the US stock market, you will have:
 - \$144,633 in 30 years, today's dollars (adjusted with inflation)
 - \$331,539 in 30 years, future's dollars

CASE STUDY: BUYING A USED CAR

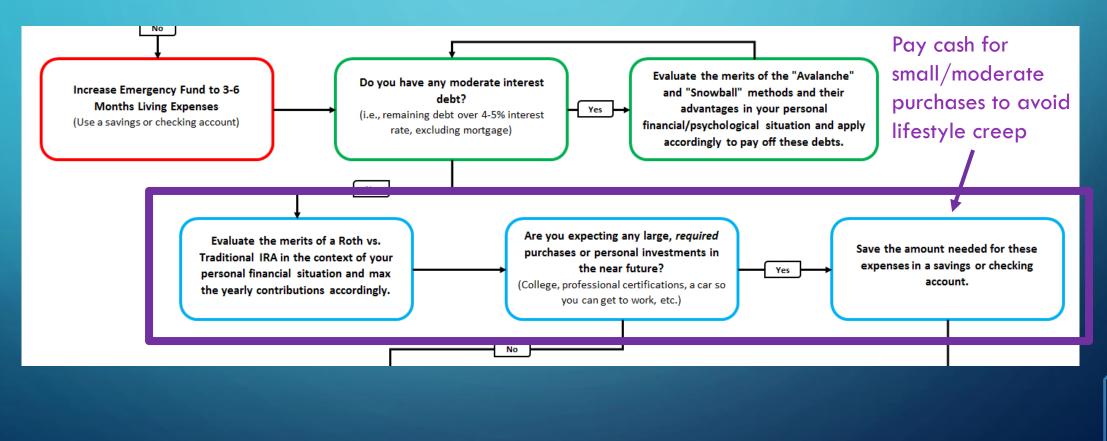
- Some people go the opposite way and buy a low-mileage, reliable, used car
- Most new cars lose 50% of its value after 5 years (avg 15k miles driven per year):



- Remember, with 10% market annual return,
 - For every extra \$1,000 invested, you will have an addition of \$17,449 in 30 years
- However, used car comes with disadvantages:
 - Risks if purchasing from a private party (not dealership)
 - Repair/Maintenance cost goes up as the vehicle ages

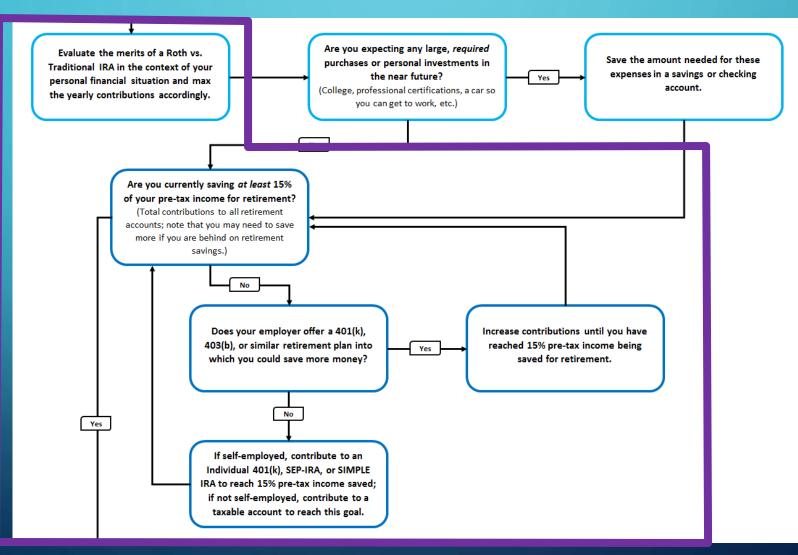
Step 4: Savings for retirement in an IRA & higher education expenses

PHASE 4: SAVING FOR IMMEDIATE GOALS



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PHASE 5: RETIREMENT SAVING



GENERAL RETIREMENT QUESTIONS

- Recall from Phase 2:
 - You have already put in the minimum amount needed to get the full employer match on the employer retirement account [typically a 401(k)]
- What is the difference between Roth and Traditional contributions?
- What to look out for between an IRA and 401(k)?
- What to invest inside these accounts?
- How much do I need to save for retirement?

ROTH VS TRADITIONAL

- Roth:
 - Pay income taxes now before you contribute into retirement accounts
 - Tax-free withdrawal after retirement age*
- Traditional:
 - Tax deductions when you contribute into retirement accounts
 - Will need to pay income taxes when you withdraw the money after retirement age*

Do you expect a higher tax bracket/higher income tax rate when you retire?
*Retirement age depends on the types of accounts
*Withdrawing early will typically trigger a 10% penalty

ROTH VS TRADITIONAL

- For single tax filing status (2021): ^[14]
 - Modified AGI < \$125,000 can put in \$6000 (\$7000 if age 50+) into Roth IRA
 - Modified AGI between \$125,000 and \$140,000 can put in a reduced amount into Roth IRA
 - Modified AGI >\$140,000 cannot contribute directly into Roth IRA
- For single tax filing status and if your employer provided 401(k) (2021): [15]
 - Modified AGI < \$66,000 can have a full tax deduction on Traditional IRA
 - Modified AGI between \$66,000 and \$76,000 can have a partial tax deduction on Traditional IRA
 - Modified AGI >\$76,000 have no tax deduction on Traditional IRA
- No Income limit for Roth 401(k) and Traditional 401(k)

ROTH VS TRADITIONAL

- Do you expect a higher tax bracket/higher income tax rate when you retire?
- Some people do a mix of Roth and traditional
- Remember:
 - #1: Employer's match is always traditional
 - #2: Social Security (if it still exists when you retire) is taxable

IRA VS 401(K): WHICH ONE TO FILL UP FIRST?

- 401(k) typically has a fewer investment options and funds come typically with higher expense ratios
- Some 401(k) plans have a asset-based plan administration fee (on top of expense ratio): read your plan document!
- Common IRA providers: Fidelity, Vanguard, Charles Schwab

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Morningstar Category Target Date 2055		Fund Inception 6/1/2011	
	5/30/2020		5/30/2020
Target Date 2055 Exp Ratio (Gross) 0.12% NAV	5/30/2020	6/1/2011 Exp Ratio (Net)	
Target Date 2055 Exp Ratio (Gross)		6/1/2011 Exp Ratio (Net) 0.12% Minimum to Invest	5/30/2020

CONTRIBUTION LIMITS (SINGLE, AGE < 50)

- Typical maximum contribution limit in 2021: ^[16]
 - 401(k): \$19,500, not including employer's match
 - Roth IRA: \$6,000 if Modified AGI < \$125,000
- Backdoor Roth IRA: [17]
 - No income limit on traditional IRA contribution (just no tax deduction)
 - Put money into traditional IRA, and then transfer it to Roth IRA, up to \$6,000
- Mega Backdoor Roth IRA:
 - If your 401(k) plan allows after-tax contributions and allow you to move after-tax money
 - Your Employer and you can contribution up to \$58,000 into 401(k) in 2021 ^[16]
 - After-tax Contribution to 401(k), and then rollover to a IRA ^[18]
- You should always check with a tax professional before making any decisions!

RETIREMENT ACCOUNTS VS BROKERAGE

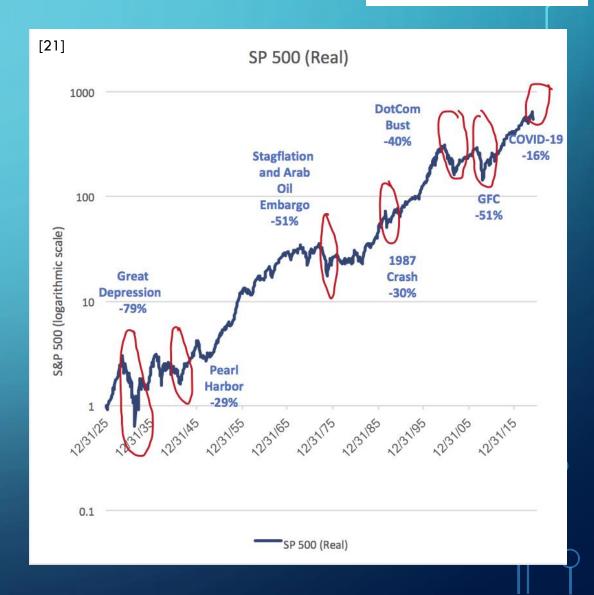
- Retirement accounts (Roth and Traditional):
 - Tax-free on interest and investment earnings (i.e. dividends)
- Taxable brokerage accounts:
 - Pay interest and dividend tax every year as income
 - Pay capital gain/loss from the sale of the investment
 - Can withdraw money at any time
- Hidden Gem: HSA (Health Saving Account):
 - If you have a qualified HDHP health plan, you and employer can contribute up to \$3,600 in 2021 [19]
 - Pre-tax contribution that is also not subjected to FICA tax
 - Tax-free on interest and investment earnings (i.e. dividends)
 - Tax-free withdrawal for qualified medical expenses
 - Can be treated like a traditional IRA after age 65

WHAT TO INVEST IN?

- Some stocks grow faster than others
- Investment in one single stock is risky:
 - If the company bankruptcies, your investment goes to zero
- Average US stock market annual return is about 10% ^[12]
 - 7% adjusted for inflation
- Almost impossible pick good stocks to beat the market in a long run
 - Only 18% of active mutual fund managers beat the market over a 15-year period ^[20]
- Mutual funds: funds that invest in a basket of different stocks or assets, sometimes a particular financial sector
- Index funds: low-cost funds that track a specific mutual funds
 - S&P Total Market ETF (ITOT), Total US Bond Market ETF (AGG), US Global Jets ETF (JETS)

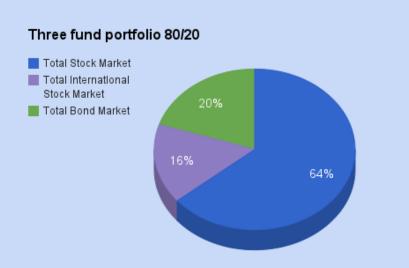
WHAT TO INVEST IN?

- Index funds does not protect you from recessions
- 100% assets into stocks still come with risks
- You don't want your investment balance drop 30-50% during retirement



WHAT TO INVEST IN?

- Three-fund portfolio: diversified asset allocation to lower risks ^[22]
- As you age, your portfolio needs to be rebalanced to be more conservative
 - More bonds, less stocks



WHAT TO INVEST IN?

- Target date funds: All-in-one funds that automatically rebalance the asset mix based on retirement date
- Typically available in your 401(k) plan, IRA and HSA

• Pro:

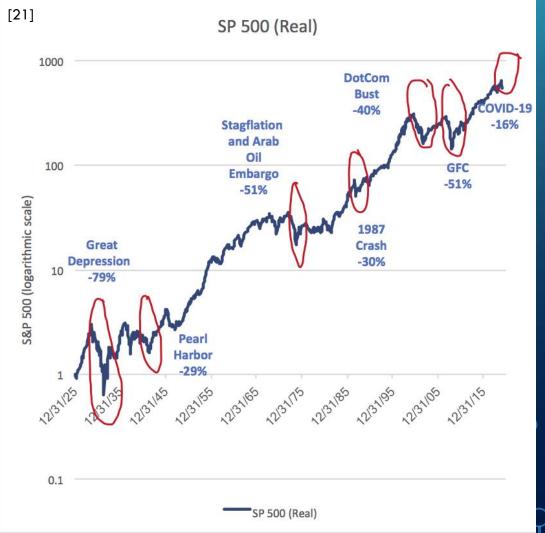
- Contribute and forget about it
- Prevent investors from making mistakes
- Con:
 - Higher expense ratios (fee)
 - Some investors might find it too aggressive/conservative

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Morningstar [®] Snapshot* AS OF 2/28/2021; Morningstar Cal				and her bloost	
Overall Rating Rating Info	rmation	Returns	Low Av	/g High	Expe
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Morningstar Category Target-Date 2055		Fund Inception 6/1/2011	n		
Exp Ratio (Gross) 0.12% 5/	/30/2020	Exp Ratio (Ne 0.12%	et)	5/30/2020	
<u>NAV</u> \$18.73	4/1/2021	Minimum to Ii \$0.00	nvest		
Turnover Rate 12% ®	/30/2020	Portfolio Net \$4,080.21	Assets (\$N	<u>1)</u> 3/31/2021	
Share Class Net Assets (\$M)		12 Month Lov			

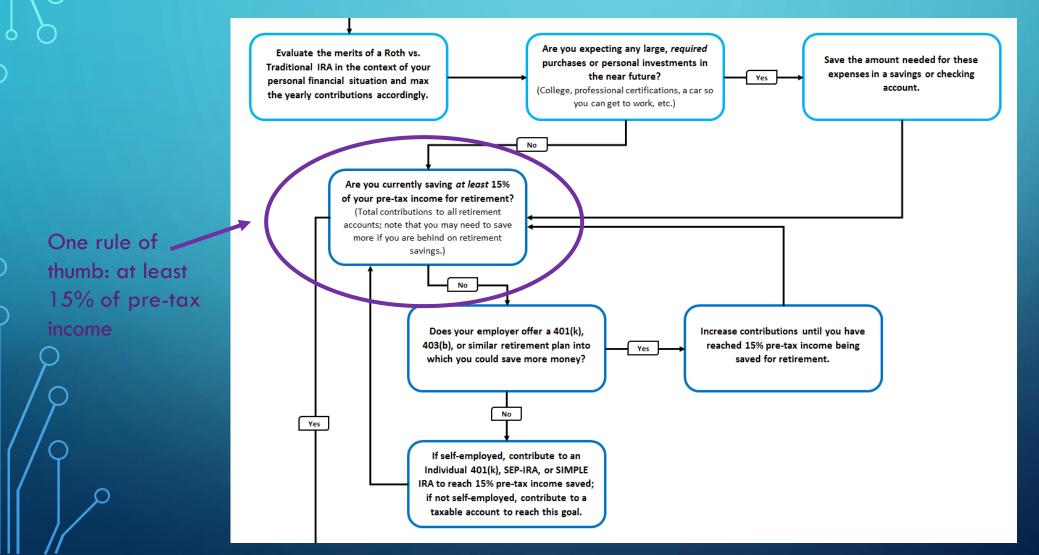
Step 5: Save more for retirement

CASE STUDY: "WAIT FOR THE DIP"

- What if I am the best market timer?
- Let's say you saved \$260.7 per month from January 1980 to September 2020 ^[23]:
 - 25% of the average income in 1980
 - Saved in saving account and earn 2% interest
 - During each stock market crash, you invested all the cash when S&P 500 was at the very bottom
 - You would have \$1,431,546
- Don't time the market and invest every month:
 - You would have \$1,676,881



HOW MUCH DO I NEED TO SAVE FOR RETIREMENT?



15% ASSUMPTIONS^[24]

- #1: You are saving for retirement from age 25 to 67
- #2: You will need between 55% and 80% of income to maintain lifestyle
- #3: Some money will come from Social Security



Step 5: Save more for retirement

FOUR PERCENT RULE

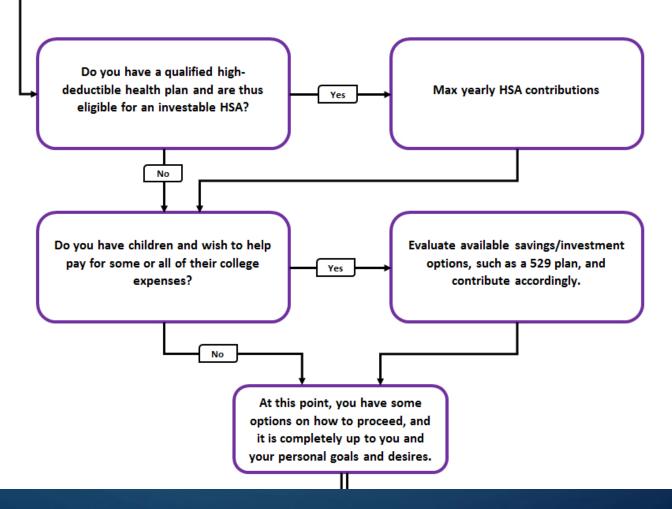
- Historical data shows that you can withdraw 4% of a retirement portfolio annually without running out of money in less than 33 years ^[26]
- You can back calculate the required retirement portfolio size by:
 - Portfolio Size = Annual withdrawal amount x 25
- Note: inflation matters. \$1 in 1981 is worth \$2.89 in 2021 [27]
- Some go more conservative and use a 3% Safety Withdrawal Rate
 - Portfolio Size = Annual withdrawal amount x 33

Step 5: Save more for retirement

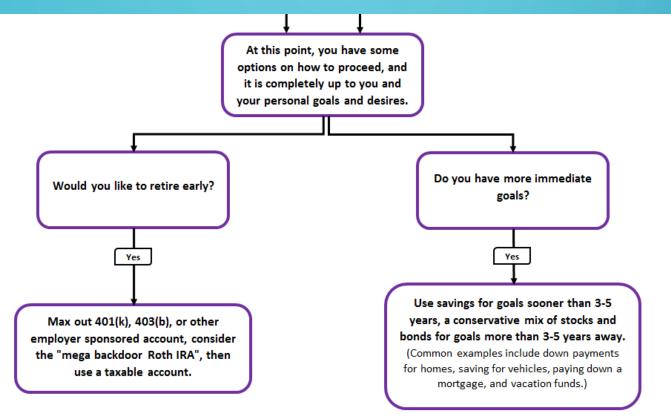
SOCIAL SECURITY

- Need to have at least worked in the US for 10 years
- Payout calculation based on the higher 35 years of indexed earnings
 - 22 + 35 = 57
- Current rule as of 2021: ^[28]
 - Reduced benefit as early as age 62
 - Full benefit at age 67 (full retirement age)
 - 132% of Full benefit at age 70
- Social Security reserve is expected to run out by 2035 ^[29]
 - Can maintain balance if only pay out about 79% of promised benefits
 - Can increase FICA tax to cover the gap

PHASE 6: OTHER GOALS



PHASE 6: OTHER GOALS



INVEST FOR BIG PURCHASES?

• You should have 9-12 months of emergency saving first

- Think about COVID-19 and unemployment
- Stock market is risky in short-term, but also high return in long-term
 - Stock Market historically doubled every 7-10 years ^[30]
- Immediate goals should use a HYSA (High-Yield Saving Account)
- Long-Term goals (5 years+) can use a asset mix of stocks and cash
 - Use a taxable brokerage account

HOUSING: BUY VS RENT

• Rent:

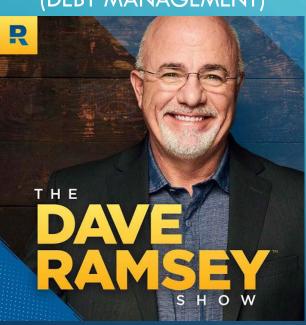
- Monthly Payment on Rent is the maximum you pay
 - If your roof/AC is broken, your landlord is responsible for fix it
- Typically renting a one-bedroom or two-bedroom apartment, not a house
- Homeownership:
 - Build equity over time
 - Hidden fee: Property taxes, homeowner insurance, HOA fee, higher utility bills
- Investing the extra money into the stock market might have a higher rate of return than the local house market
 - There are <u>Rent vs Buy Calculators</u> ^[31 & 32] online you can play around with the numbers

SUMMARY

- Step 0: Setup budget and reduce expenses
- Step 1: Build an emergency fund
- Step 2: Employer-sponsored matching funds (for retirement)
- Step 3: Pay down high/moderate interest debts
- Step 4: Save for large, required purchases in the near future
- Step 5: Save more for retirement
- Step 6: Save for other advanced goals (i.e. retiring early, house down payment)

EXTRA PODCAST RESOURCES

THE DAVE RAMSEY SHOW ^[33] (DEBT MANAGEMENT)



MINORITY MINDSET [34]

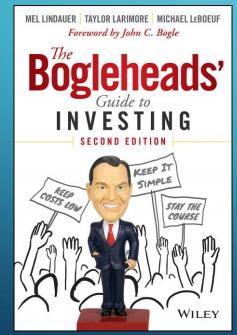


THE MONEY GUY SHOW [35]

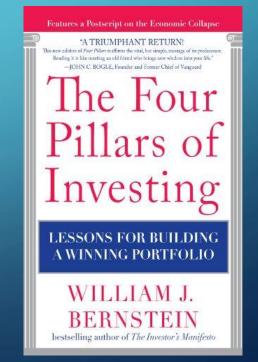


EXTRA READING MATERIALS FOR INVESTING

The Bogleheads' Guide to Investing ^[36]



The Four Pillars of Investing: Lessons for Building a Winning Portfolio ^[37]



CITATIONS

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