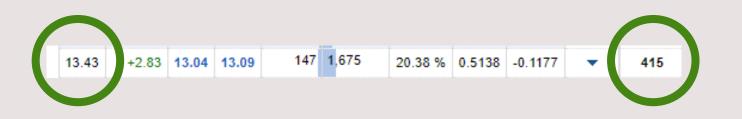


#### Disclaimer

- Its Kevin again, do you own due diligence.
- Don't take investment advice from a frog boi
- Part of this is to scare you, but also inform you.

# . Options are Super Confusing

- "I'm long 2 contracts on the SPY September out of the money calls at 415"
- "I'm naked short 1 contract on the SPY September in the money put at 415"
- "I'm short 1 contract on the SPY September covered out of the money calls at 415"
- Option Chains
- Numbers be like wut?
  - Lots of 100
  - Quoted at a per share bases



#### View All Expiration Dates

							2022			
<	SEP 30 (Q)	OCT 21	NOV 18	DEC 16	DEC 30 (Q)	DEC 30 (W)	JAN 20	MAR 17	>	Apply Reset

#### Expand All | Collapse All

Last	Change	Bid	Ask	Volume	Open Int	Imp Vol	Delta	Theta	Action	Strike -	Action	Last	Change	Bid	Ask	Volume	Open Int	Imp Vol	Delta	Theta
	CALLS Sep 30 '22 (58 days) PUTS																			
16.73	+3.38	16.03	16.10	912	8,605	21.08 %	0.5728	-0.12	-	410	-	11.96	-3.24	11.93	11.97	4,088	2,867	21.09 %	-0.4409	-0.1183
15.99	+3.20	15.40	15.47	2,653	1,321	20.93 %	0.5614	-0.1197	•	411	-	11.81	-3.47	12.31	12.35	655	5,524	20.95 %	-0.4523	-0.1179
15.30	+3.12	14.78	14.85	193	1,425	20.78 %	0.5498	-0.1193	-	412	-	12.51	-3.62	12.71	12.75	223	1,208	20.78 %	-0.4638	-0.1174
14.72	+3.02	14.18	14.25	98	3,902	20.64 %	0.538	-0.1189	-	413	-	12.67	-3.46	13.11	13.15	403	3,977	20.65 %	-0.4755	-0.1169
14.25	+2.22	13.61	13.66	68	1,220	20.52 %	0.526	-0.1183	-	414	-	13.60	-2.81	13.53	13.58	256	1,603	20.50 %	-0.4874	-0.1162
13.43	+2.83	13.04	13.09	147	1,675	20.38 %	0.5138	-0.1177	•	415	-	13.87	-3.20	13.96	14.01	706	899	20.36 %	-0.4994	-0.1155
12.87	+0.86	12.47	12.52	77	1,512	20.26 %	0.5015	-0.117	-	416	-	13.92	-3.82	14.41	14.46	328	954	20.22 %	-0.5115	-0.1147
12.60	+1.14	11.93	11.97	51	1,029	20.09 %	0.4891	-0.1161	-	417	-	14.55	-3.10	14.87	14.92	208	3,449	20.08 %	-0.5238	-0.1137
12.07	+1.62	11.39	11.44	114	688	19.98 %	0.4767	-0.1152	-	418	-	14.64	-3.64	15.35	15.39	323	1,198	19.98 %	-0.5361	-0.1128
11.25	+2.36	10.87	10.92	274	1,257	19.87 %	0.4641	-0.1142	•	419	-	15.07	-4.79	15.84	15.88	174	1,533	19.83 %	-0.5486	-0.1116

in the money

## What is an option contract?

- A derivative that is based on the value of a security like stocks (ticker symbol)
- An option (not an obligation) to buy or sell a lot (100 shares) of stock to a buy or seller
- Contract has a "strike price"
- Contract has an expiration date
- Options trade in lots of 100 shares per contract
- Zero sum investing. Always a winner, always a loser.



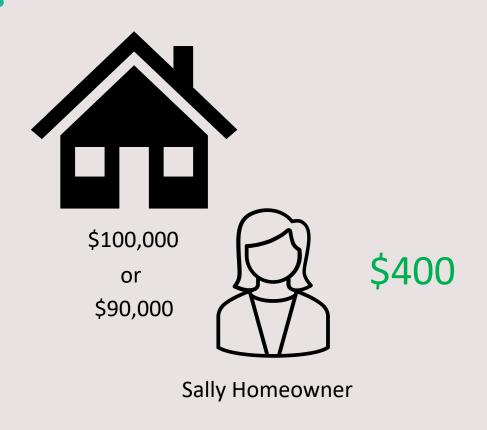


Ill pay you \$400 for the option to buy your home for \$110,000 in the next 3 months



Johnny OptionBoi

#### 2 Months Later



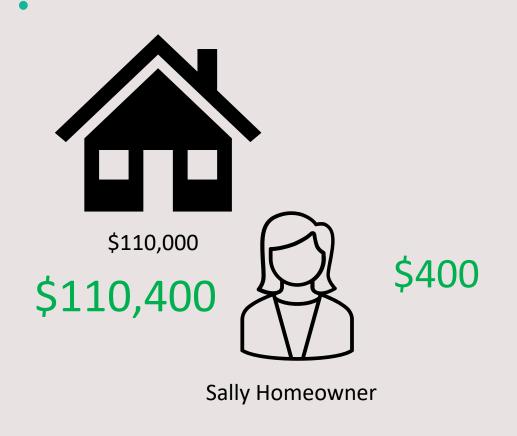


-\$400



Johnny OptionBoi

#### 2 Months Later



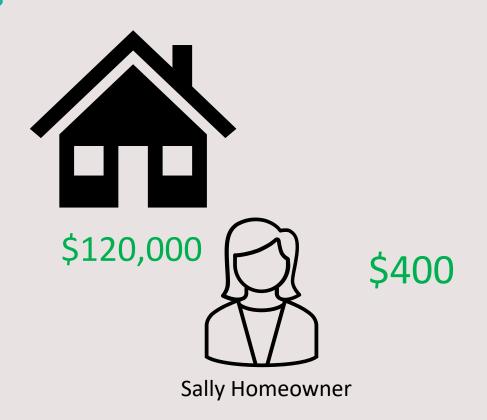


-\$400



Johnny OptionBoi

#### 2 Months Later







-\$400

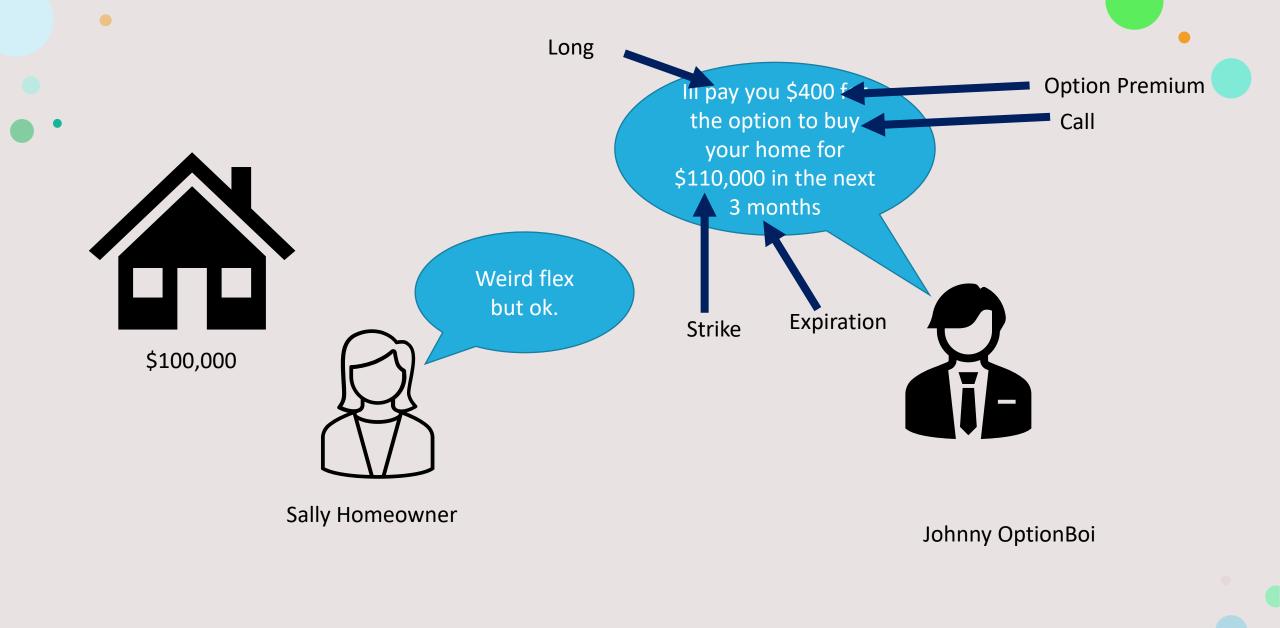
Johnny OptionBoi

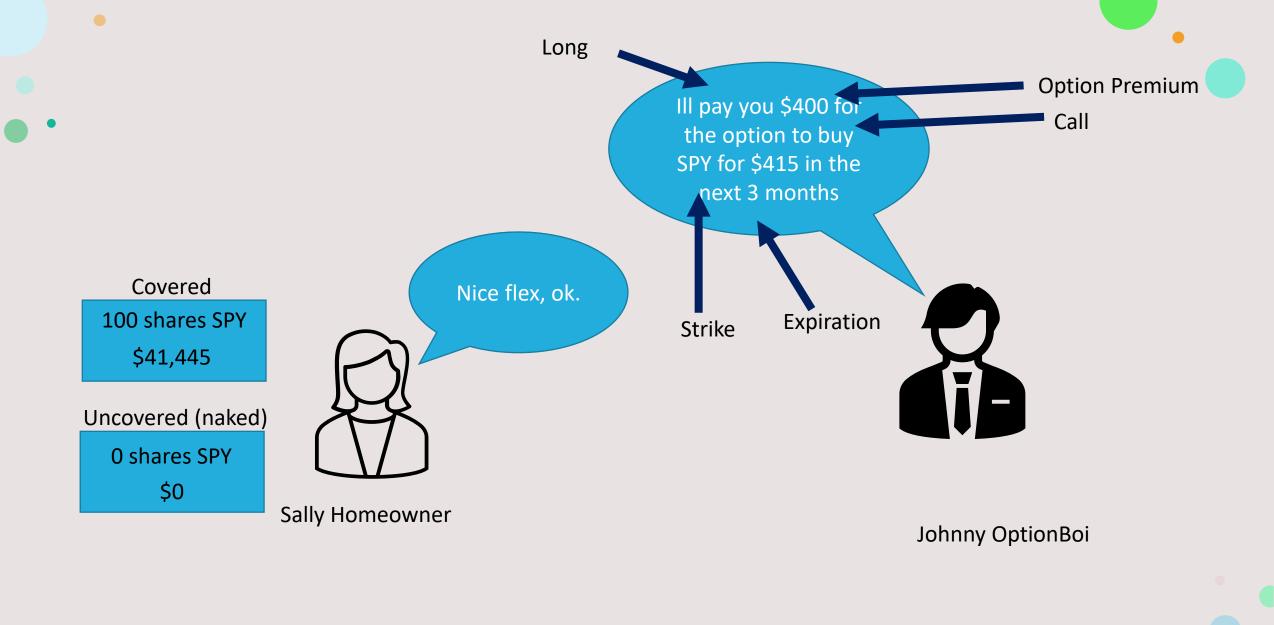
- Johnny can now buy the home for \$110,000 and immediately sell it for \$120,00
- Johnny can just sells the option contract to another individual for \$10,000

# . Calls and Puts and Long and Short

- Calls is an option to buy (not an obligation)
  a given stock at a set price in a set time
- Put is the option to sell (not the obligation)
  a given stock at a set price in a set time
- Can go "long" or "short" on either contract
  - Long is the buyer of the option
  - Short is the seller of the option







### Value/Premium of an option

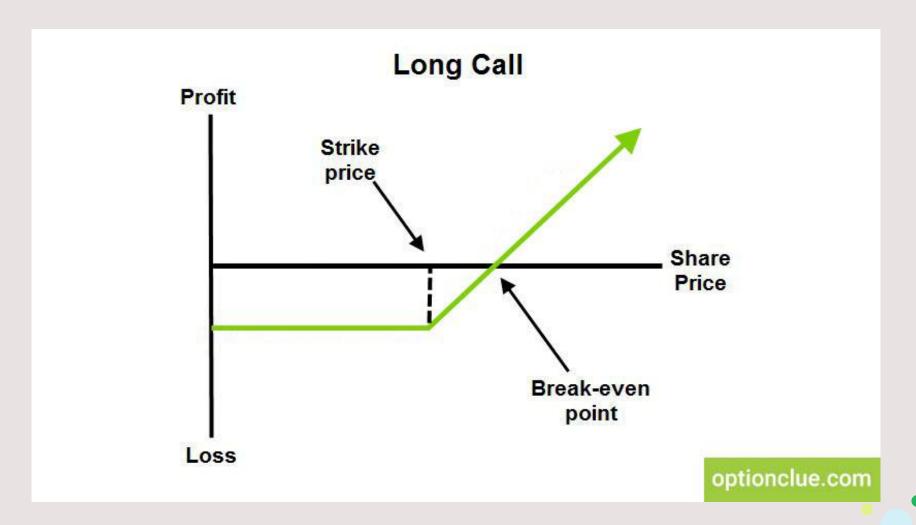
- Why did Sally and Johnny agree on \$400 as a contract price/premium?
- Time The more time, the longer the stock has to hit the strike
  - SPY \$415 strike expiring today vs expiring 2 years from now
- Volatility the more volatile a stock, the more likely it is to hit the strike



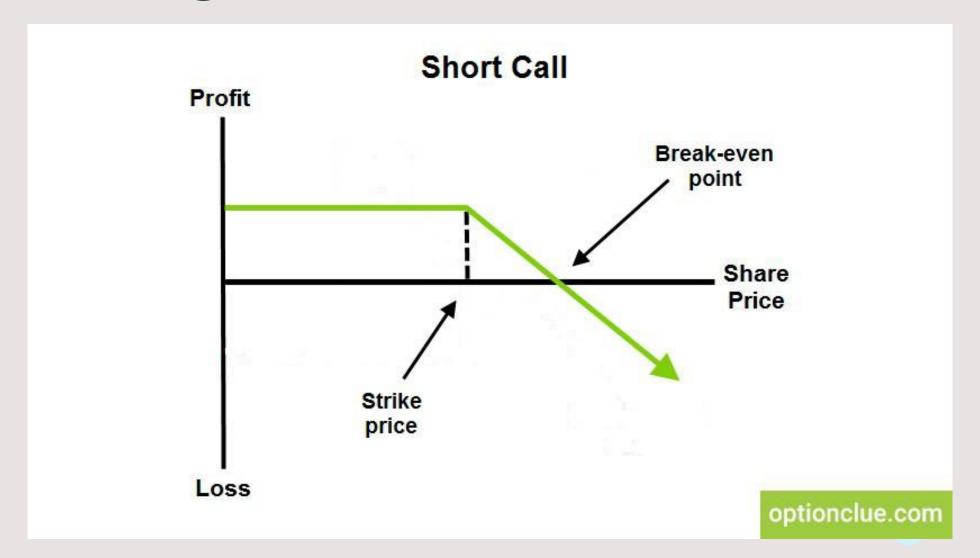
- Current Stock Price \$414.45
- Value of option is \$16.73???
- Strike of 410 has an intrinsic value of \$4.45 but extrinsic value of \$12.28

"Based on the volatility of this stock and time left in the option, the market is willing to pay \$12 because this option to take this risk on."

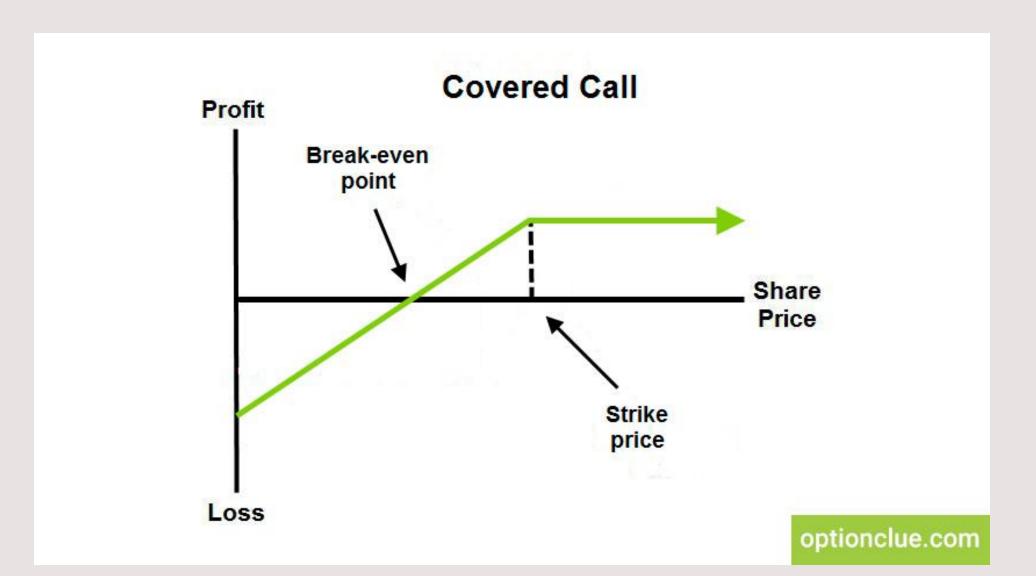
# . Visualizing the Long Call Strategy



# . Visualizing the Short Call



### . Visualizing the Covered Call



### How do you know what trade to place?

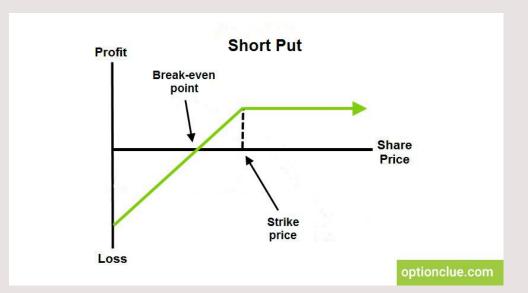
- Directional Trading "I think this stock will go up"
- Volatility trading (201) "I think this stock will be more volatile"
- Combination of both (201) "I think this stock will be more volatile and will go up"

# Directional Option Trading

- Long Call I think a stock will go up
- Long Put I think a stock will go down
- Short Call I think a stock is going down or staying the same
- Short Put I think a stock is going up or staying the same

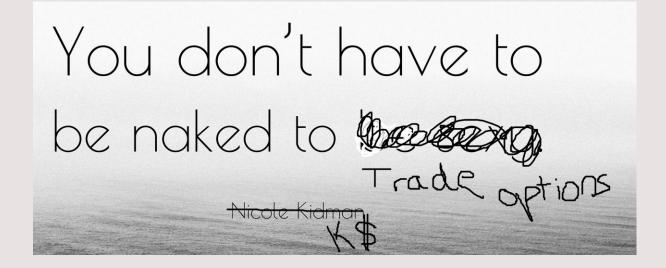
#### Multi-Leg Options

- Short Straddle Short call AND a Short put I think a stock will stay the same
- Long Straddle Long put AND Long Call -I think a stock will go up or down after news, not sure which direction
- Long Collar Covered short call AND long put I think it'll go up but I want an option premium to pay for some downside protection
- Reverse Butterfly 4 option legs wtf, seriously?



#### . Did | Scare You Yet?

- Exceptionally complex and jargony
- If you don't know the risks, you WILL lose everything.
  - Long calls in a nutshell leverage play (big money potential), likely will expire worthless.
  - Short call in a nutshell Likely will make money pretty regularly, INFINITE RISK IF NAKED.
  - Long Puts Great portfolio insurance (VIX), more effective to not buy it since market generally goes up
  - Short Puts Great way to collect money and buy stocks at discount, must be able to buy 100 shares if ITM
- Zero Sum investing



#### . Homework

- Let's track the SPY Sept 30<sup>th</sup> Long Call with a \$419 strike
- What happened to the option in the next week?
- Month?
- Did we make money?
- Did we lose money?