

# Thoughts on employment

17-313 Fall 2022  
Michael Hilton

# Administrivia

Final presentation slots have been scheduled

Section 1: Tuesday December 13th 5:30pm - 8:30pm POS 151&152

Section 2: Thursday December 15th 5:30pm - 8:30pm WEH 7500

# Advice for looking for internships

- Don't fixate on the internship you think you **should** take
- Don't underestimate your intuition
- Consider smaller companies (startups)
- Consider (primarily) non-tech companies
- Don't be afraid to ask for help
- There is a lot of uncertainty, don't feel bad if you hear a no
- Think about the stories you have to tell (open source excursion?)

# Some thoughts on SE jobs

# Resumes

# Resume Advice

- Start with what makes you special
- Next, what makes you “good enough”
- Finally, keywords for search matching



**What are software  
company cultural  
problems?**

# 10x Engineers





# 10X Engineers

- Aka “rock-star”, “ninja”

ROCK STAR DEVELOPER



@SKELETON\_CLAW

SKELETONCLAW.COM

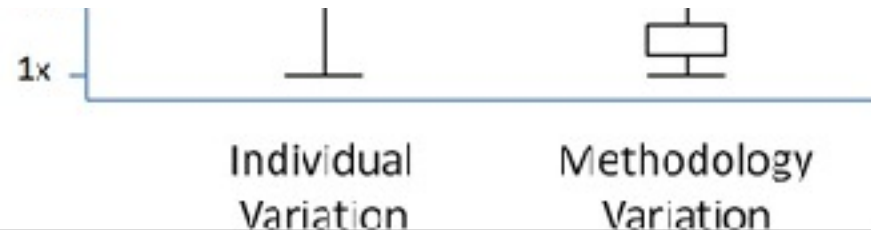
# 1966 study on online/offline programming performance

Productivity



Performance variables. To paraphrase a nursery rhyme:

When a programmer is good,  
He is very, very good,  
But when he is bad,  
He is horrid.



# 10x

- Reported as early as 1968 (Sackman, Erickson, and Grant)
  - Coding time 20:1
  - Debugging time 25:1
  - Program size 5:1
  - Execution speed 10:1
  - No correlation to amount of experience
- "order-of-magnitude differences among programmers" repeatedly reported
- Differences not explained by
  - programming language
  - years of experience

## A Fork in the Road

Going forward, to build a breakthrough Twitter 2.0 and succeed in an increasingly competitive world, we will need to be extremely hardcore. This will mean working long hours at high intensity. Only exceptional performance will constitute a passing grade.

Twitter will also be much more engineering-driven. Design and product management will still be very important and report to me, but those writing great code will constitute the majority of our team and have the greatest sway. At its heart, Twitter is a software and servers company, so I think this makes sense.

If you are sure that you want to be part of the new Twitter, please click yes on the link below:

[forms.gle](https://forms.gle)

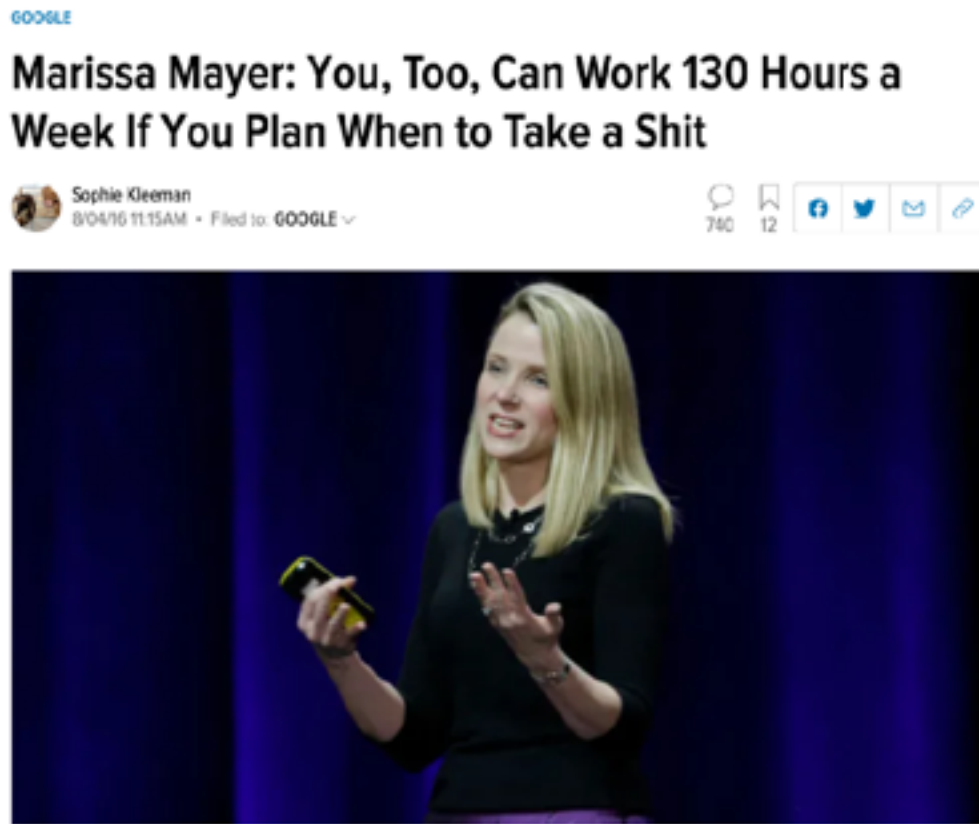
Anyone who has not done so by 5pm ET tomorrow (Thursday) will receive three months of severance.

Whatever decision you make, thank you for your efforts to make Twitter successful.

Elon



# Overwork



Overwork: <https://www.nytimes.com/2015/08/16/technology/inside-amazon-wrestling-big-ideas-in-a-bruising-workplace.html>

<https://gizmodo.com/marissa-mayer-you-too-can-work-130-hours-a-week-if-y-1784822446>



# Overwork

## Why Unlimited Paid Time Off Is Bad for Your Employees

Netflix and LinkedIn's policies are not helping their employees. Here's why. [↗](#)

BY GENE MARKS, OWNER, MARKS GROUP @GENEMARKS

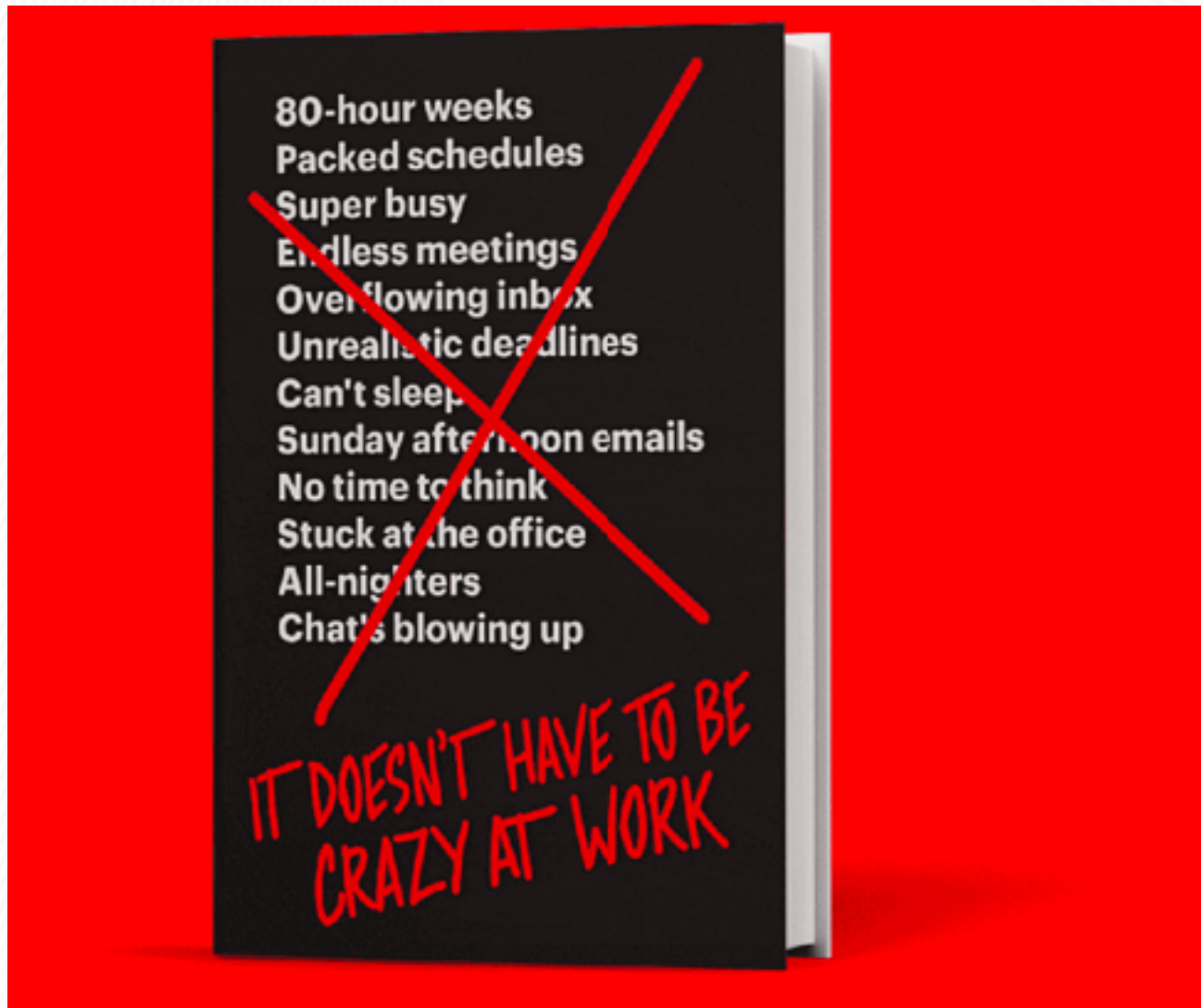


Getty Images

“Unlimited vacation”

<http://fortune.com/2016/03/10/best-companies-unlimited-vacation/>

<https://www.inc.com/gene-marks/why-unlimited-paid-time-off-is-bad-for-your-employees.html>



80-hour weeks  
Packed schedules  
Super busy  
Endless meetings  
Overflowing inbox  
Unrealistic deadlines  
Can't sleep  
Sunday afternoon emails  
No time to think  
Stuck at the office  
All-nighters  
Chat's blowing up

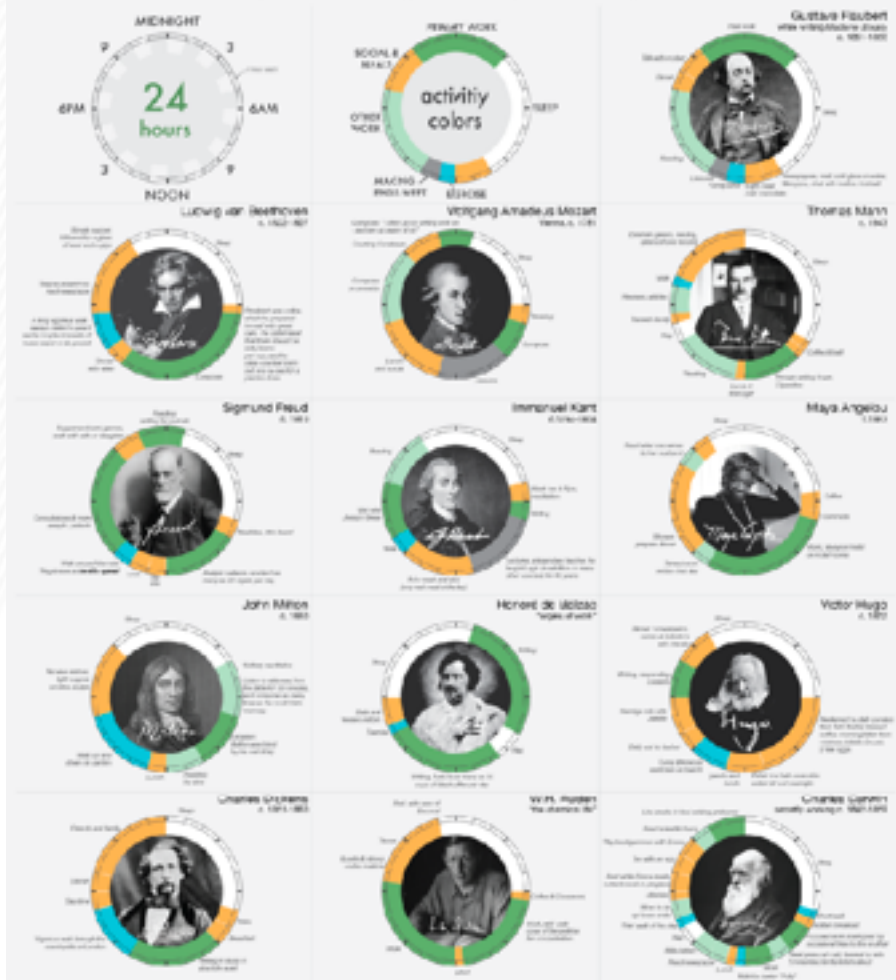
IT DOESN'T HAVE TO BE  
CRAZY AT WORK

<https://basecamp.com/books/calm>



# CREATIVE ROUTINES

"In the right hands, it can be a truly collected mechanism for being: a bridge of limited resources... a self-discipline leaders can well adopt for their mental energies." —Thomas Curran, author of *The Inspiring Book*, *DAILY RITUALS*



<https://infographwetrust.files.wordpress.com/2014/03/daily-rituals.png>

# Inclusive culture - Neurodiversity

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## Agile in the Wild

---

### Why you want an Autist on your tech team.

salfreudenberg / May 19, 2016 / neurodiversity, psychology of programming, Uncategorized

"By autistic standards the neuro typical brain is easily distractable, obsessively social and suffers from a deficit of attention to detail" – Steve Silberman

Autism is said to effect 1 in 62 people. That's around a million people in the U.K. alone. It appears there is a correlation between autism and the world of science and technology. There is a pretty compelling body of evidence showing this link (Baron-Cohen et al, 1998; Windam, 2009; Roelfsema et al, 2011; Wei, 2003). So why this tendency towards tech for autists? Well there are a number of traits of the autistic mind that lend themselves very well to working in the technology sector. Here are just three examples:

<https://salfreudenberg.wordpress.com/2016/05/19/why-you-want-an-autist-on-your-tech-team/>

<https://salfreudenberg.wordpress.com/2016/05/19/why-you-want-an-autist-on-your-tech-team/>

<https://www.microsoft.com/en-us/research/publication/understanding-the-challenges-faced-by-neurodiverse-software-engineering-employees-towards-a-more-inclusive-and-productive-technical-workforce/>

# Implicit Bias

<https://www.ncwit.org/resources>

Conferences: <https://www.ncwit.org/resources/ncwit-tips-13-tips-make-technical-conferences-more-inclusive/ncwit-tips-13-tips-make>

Websites:

<https://www.ncwit.org/resources/ncwit-tips-9-tips-creating-inclusive-corporate-websites>

Job Ads:

[https://www.ncwit.org/sites/default/files/resources/ncwitchecklist\\_reducingunconsciousbiasjobdescriptions.pdf](https://www.ncwit.org/sites/default/files/resources/ncwitchecklist_reducingunconsciousbiasjobdescriptions.pdf)

# Sidenote: Implicit Bias in Teaching Reviews



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Export



ELSEVIER

Journal of Public Economics

Volume 145, January 2017, Pages 27-41

A  
E

Gender biases in student evaluations of teaching \*

Anne Boring

Show more

<https://doi.org/10.1016/j.jpubeco.2016.11.006>

Get rights a

# FCEs





# REMEMBER

You are interviewing them as much  
as they are interviewing you!!

# Questions you could ask interviewers

- What's the gender balance in this company as a whole? What's the balance in engineering?
- What's the average length of stay in a job at this company (at this level)? How does that vary by race, gender, etc.?
- How long do people stay in their role? Do people leave to another job or do they move up?
- What other questions could you ask?
- What does review and promotion look like?



# Compensation

# Congratulations! You were offered equity!:

## Stock Options

### Running Example: Kerri

Kerri's offer tells her the number of shares of option grants she was offered, but not how much they're worth.

**This is standard.**

**MEETLY**  
2525 CHARLESTON ROAD SUITE 104  
MOUNTAIN VIEW, CA 94043

SEPTEMBER 3, 2015

Kerri Stuart  
Via email to: kerri@example.com

Dear Kerri:

I am pleased to offer you a position with Meetly, Inc (the "Company"), as Senior Engineer. If you decide to join us, you will receive an annual salary of \$100,000, which will be paid semi-monthly in accordance with the Company's normal payroll procedures. **In addition, subject to the approval of the Company's Board of Directors, you will be granted 100 shares of option grants of the Company,** which shares will vest in accordance with the following vesting schedule: 25% on your first year anniversary date, and the remainder for 1/36th for each month of continuous service thereafter. You should note that the Company may modify job titles, salaries and benefits from time to time as it deems necessary.

The Company is excited about your joining and looks forward to a beneficial and productive relationship. Nevertheless, you should be aware that your employment with the Company is for no specified period and constitutes at will employment. As a result, you are free to resign at any time, for any reason or for no reason. Similarly, the Company is free to conclude its employment relationship with you at any time, with or without cause, and with or without notice. We request that, in the event of resignation,

<https://med>

# Congratulations! You were offered equity!: Stock Options

## Running Example: Kerri

Kerri has 100 shares of option grants.

But what does this even mean?

**To make sense of this, there are 4 things Kerri should consider:**

1. Types of Stock Options
2. Option Agreement
3. Vesting
4. Termination

# What's a Stock Option anyway?

## Stock Options:

A stock option is the right to buy a set number of shares at a fixed price.

Think of it as a coupon to get a discount on a future purchase.

**In Kerri's case, that fixed price is \$1**

The goal is for the **value** of that stock to increase. But since the fixed price stays fixed for Kerri, that means Kerri can make money on the difference.

# What's an RSU?

## Restricted Stock Units:

RSU is a the company giving you stock, no more transactions needed.

RSUs have some major benefits:

- Less dilution
- No cost to exercise
- Less risk if stock price goes down

Generally, RSUs have more upside for you as an employee

# Know what kind of Stock Option you have

There are generally two types:

## ISO vs NSO

ISO = incentive stock option, NSO = non-qualified stock option

Employees usually get ISOs.

Consultants usually get NSOs.

**The main difference is tax benefits, which we'll cover later.**

# Make sure you get an option agreement

An offer letter talking about stock options you've been offered is ***not legally binding***.

Until you've received and signed an option agreement, you technically don't own stock options.

## MEETLY, INC. 2005 STOCK PLAN NOTICE OF STOCK OPTION GRANT

The Optionee has been granted the following option to purchase shares of the Common Stock of XYZ, Inc.:

Name of Optionee:	«Name»
Total Number of Shares:	«TotalShares»
Type of Option:	«ISC» Incentive Stock Option (ISO) «NSO» Nonstatutory Stock Option (NSO)
Exercise Price per Share:	\$«PricePerShare»
Date of Grant:	«DateGrant»
Date Exercisable:	This option may be exercised with respect to the first 25% of the Shares subject to this option when the Optionee completes 12 months of continuous Service beginning with the Vesting Commencement Date set forth below. This option may be exercised with respect to an additional 1/36 <sup>th</sup> of the remaining Shares subject to this option when the Optionee completes each month of continuous Service thereafter.
Vesting Commencement Date:	«VestComDate»
Expiration Date:	«ExpDate». This option expires earlier if the Optionee's Service terminates earlier, as provided in Section 6 of the Stock Option Agreement.

<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>



# You don't get your stock options right away

## You don't get it until it **VESTS**

Vesting means that you have to earn your stock options over time.

Companies do this because they want employees to stay with them and contribute to the company's success over several years.

If stock options didn't vest, an employee could join a company, work there for a month, buy a bunch of the company's stock, and leave. Vesting prevents this.

# Traditional Vesting

MEETLY  
2525 CHARLESTON ROAD SUITE 104  
MOUNTAIN VIEW, CA 94043

SEPTEMBER 3, 2015

Kerri Stuart  
Via email to: kerri@example.com

Dear Kerri:

I am pleased to offer you a position with Meetly, Inc. (the "Company"), as Senior Engineer. If you decide to join us, you will receive an annual salary of \$100,000, will be paid semi-monthly in accordance with the Company's normal payroll process. In addition, subject to the approval of the Company's Board of Directors, you will be granted 100 shares of option grants of the Company, which shares will vest in accordance with the following vesting schedule: 25% on your first year anniversary date, and remaining shares for 1/36th for each month of continuous service thereafter. You note that the Company may modify job titles, salaries and benefits from time to time as it deems necessary.

The Company is excited about your joining and looks forward to a beneficial and productive relationship. Nevertheless, you should be aware that your employment with the Company is for no specified period and constitutes at will employment. As a result, you are free to resign at any time, for any reason or for no reason. Similarly, the Company is free to conclude its employment relationship with you at any time, with or without cause, and with or without notice. We request that, in the event of resignation, you give the Company at least two weeks notice.

The Company reserves the right to conduct background investigations and/or reference checks on all of its potential employees. Your job offer, therefore, is contingent upon the clearance of such a background investigation and/or reference check, if any.

For purposes of federal immigration law, you will be required to provide to the Company documentary evidence of your identity and eligibility for employment in the United States. Such documentation must be provided to us within three (3) business days of date of hire, or our employment relationship with you may be terminated.

## MEETLY, INC. 2005 STOCK PLAN NOTICE OF STOCK OPTION GRANT

The Optionee has been granted the following option to purchase shares of the Common Stock of MEETLY, Inc.:

Name of Optionee:	«Name»
Total Number of Shares:	«TotalShares»
Type of Option:	«ISO» Incentive Stock Option (ISO) «NSO» Nonstatutory Stock Option (NSO)
Exercise Price per Share:	«PricePerShare»
Date of Grant:	«DateGrant»
Date Exercisable:	This option may be exercised with respect to the first 25% of the Shares subject to this option when the Optionee completes 12 months of continuous Service beginning with the Vesting Commencement Date set forth below. This option may be exercised with respect to an additional 1/36 <sup>th</sup> of the remaining Shares subject to this option when the Optionee completes each month of continuous Service thereafter.
Vesting Commencement Date:	«VestComDate»
Expiration Date:	«ExpDate». This option expires earlier if the Optionee's Service terminates earlier, as provided in Section 6 of the Stock Option Agreement.

By signing below, the Optionee and the Company agree that this option is granted under, and governed by the terms and conditions of, the 2010 Stock Plan and the Stock Option Agreement. Both of these documents are attached to, and made a part of, this Notice of Stock Option Grant. Section 13 of the Stock Option Agreement includes important acknowledgements of the Optionee.

OPTIONEE:

MEETLY INTELLIGENCE, INC.

There are all kinds of vesting schedules (so pay attention to this if you get an offer with a non-traditional vesting schedule!) but what's called *traditional vesting* is most common.

# Traditional Vesting

## Two parts of a traditional vesting schedule:

1. the “cliff”
2. the total length of the schedule

## Kerri’s example:

**1 year cliff.** This is standard. After 1 year of working at Meetly, she can buy 25% of her shares, which is 25 shares out of 100.

# Traditional Vesting

Date	Options vested	Cumulative
<b>Nov 1, 2015</b>	<b>25</b>	<b>25</b>
Dec 1, 2015	2	27
Jan 1, 2016	2	29
Feb 1, 2016	2	31
Mar 1, 2016	2	33
Apr 1, 2016	2	35
May 1, 2016	2	37
Jun 1, 2016	2	39
Jul 1, 2016	2	41

$100 \div 4 = 25$

<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

# Traditional Vesting

## Two parts of a traditional vesting schedule:

1. the “cliff”
2. the total length of the schedule

## Kerri’s example:

**1 year cliff.** This is standard. After 1 year of working at Meetly, she can buy 25% of her shares, which is 25 shares out of 100.

**36 month schedule.** This outlines how often, and for how long, Kerri will continue to vest her shares. After Kerri reaches her cliff, she will continue to vest the remaining shares for 36 months, or 2 shares each month.

# Traditional Vesting

Date	Options vested	Cumulative
Nov 1, 2015	25	25
<b>Dec 1, 2015</b>	<b>2</b>	<b>27</b>
Jan 1, 2016	2	29
Feb 1, 2016	2	31
Mar 1, 2016	2	33
Apr 1, 2016	2	35
May 1, 2016	2	37
Jun 1, 2016	2	39
Jul 1, 2016	2	41

$75 \div 36 = 2$

<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

# levels.fyi



## Duolingo

### Vesting Schedule

Main



### Stock Type Options

At Duolingo, Main Options are subject to a 4-year vesting schedule:

- 25% vests in the 1st-year (25.00% annually)
- 25% vests in the 2nd-year (2.08% monthly)
- 25% vests in the 3rd-year (2.08% monthly)
- 25% vests in the 4th-year (2.08% monthly)

### Vesting Schedule

Main

Alternate 1

Alternate 2

Alternate 3

Alternate 4



### Stock Type RSU

At Google, Main RSUs are subject to a 4-year vesting schedule:

- 33% vests in the 1st-year (2.75% monthly)
- 33% vests in the 2nd-year (2.75% monthly)
- 22% vests in the 3rd-year (1.83% monthly)
- 12% vests in the 4th-year (1.00% monthly)



Google





# Side Note:

The screenshot shows the homepage of levels.fyi. At the top, there is a search bar with the text "Search by Company, Title, or City" and buttons for "Sign Up" and "Sign In". Below the search bar are navigation links for "Salaries", "Tools", "Services", "Community", and "About Us". A banner below the navigation links reads "Get Paid, Not Played! Services to level up your career" and includes buttons for "+\$27k Salary Negotiation", "Resume Review", and "Career Coaching".

Two main sections are visible: "Join the Levels.fyi Community" and "Resume Review". The "Join the Levels.fyi Community" section features a speech bubble icon with a dollar sign and text: "Chat with colleagues, mentors and recruiters from top companies in our new community! Join the waitlist; from our mobile app to get access sooner! Download App". The "Resume Review" section features a document icon and text: "Get your resume reviewed by the real experts - recruiters who do it every single day. Book a Time".

The central focus is the "Salary Negotiation Help" section. It has a heading "Salary Negotiation Help" and a paragraph: "We've gathered a team of experienced recruiters and career coaches to help you get paid more. Our team has helped hundreds of professionals evaluate & negotiate higher job offers." Below this is another paragraph: "How? Having been on the other side of negotiations, our recruiters know how compensation at companies like Amazon, Google, Apple and more work from the inside. They'll work with you 1-on-1 to figure out how much more you can earn and how to ask for it." A final paragraph states: "Don't wait - session availability fills up fast. On average, we've increased offers by over \$20k".

On the left side of the "Salary Negotiation Help" section, there are three icons representing companies and their associated salary increases: Facebook (+\$27k), Amazon (+\$13k), and Microsoft (+\$19k). At the bottom of this section is a large green button that says "Chat with us".

# What happens when I leave the company?

Startups have higher turnover rates

**Jargon: you must remember to on your own to exercise on your options in that 90-day window!**

And most importantly,

**YOU ONLY HAVE THAT RIGHT FOR A FIXED WINDOW OF TIME, TYPICALLY 30-90 DAYS 😱**

**Your company won't remind you of this window when you leave. Typically they only tell you about it in your option agreement when you join!**

## But how much is it worth anyway?

The short answer is...

First, **some terms**

**But wait, our startup isn't publicly-traded... It's a private company.**

**strike price:** the cost for you to buy 1 share of stock. This is also called an exercise price.

**FMV (fair market value):** to figure out the strike price, the company has to determine the fair market value of the stock if it were publicly traded on the open market. The strike price is almost always equal to the Fair Market Value of the stock on the day the option is granted.

# Where does the FMV come from?

For startups, which are private companies and not publicly-traded on the stock market, we have to estimate the FMV somehow.

This is done via a **409a valuation**

# Where does the FMV come from?

## DEFINITION

A **409A valuation** is an assessment private companies are required by the IRS to conduct regarding the value of any equity the company issues or offers to employees. A company wants the 409A to be low, so that employees make more off options, but not so low the IRS won't consider it reasonable. In order to minimize the risk that a 409A valuation is manipulated to the benefit of the company, companies hire independent firms to perform 409A valuations, typically annually or after events like fundraising.

The 409A valuation of employee equity is usually much less than what investors pay for preferred stock; often, it might be only a third or less of the preferred stock price.

**controversy** Although the 409A process is required and completely standard for startups, the practice is a strange mix of formality and complete guesswork. It has been called “quite precise—remarkably inaccurate,” by venture capitalist Bill Gurley. You can read more about its nuances and controversies.

From the Holloway  
Guide on Equity  
Compensation: [https://  
www.holloway.com/g/  
equity-compensation](https://www.holloway.com/g/equity-compensation)

<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

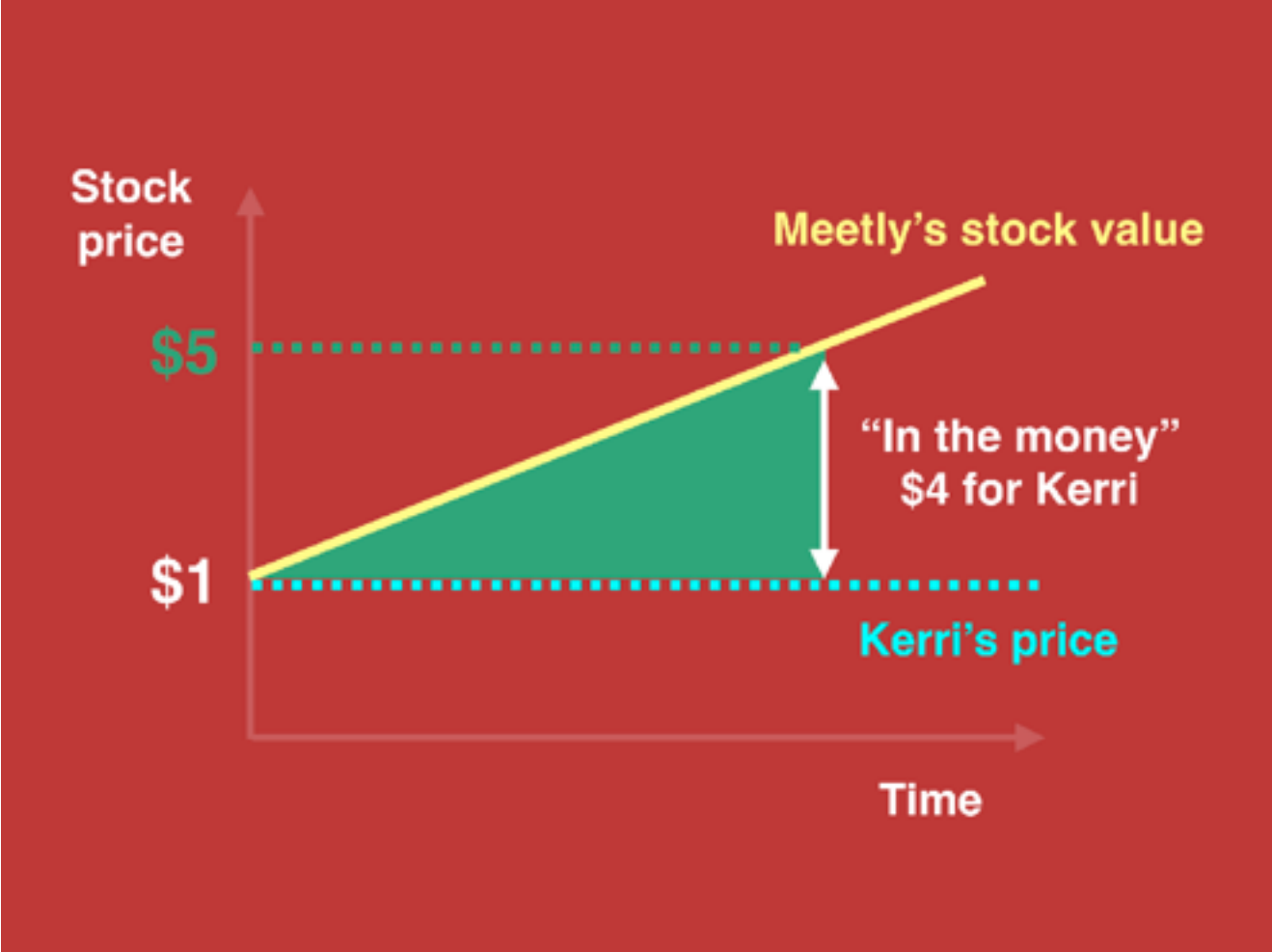
# How stock options gain value



<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

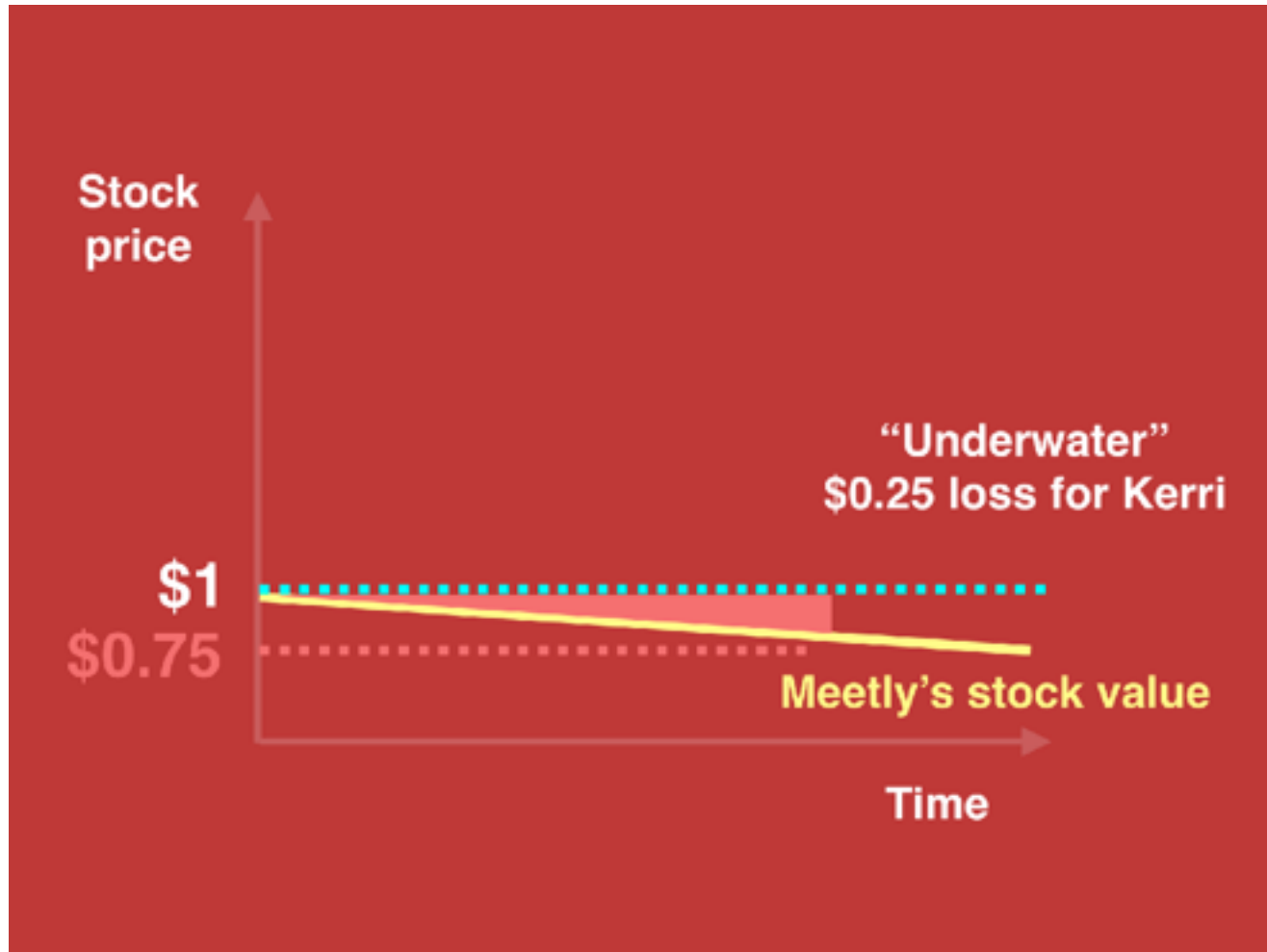


# How stock options gain value



<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

# How stock options gain value



<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

But things won't stay this way forever...

***Dilution*** happens.

<https://youtu.be/njx09wXb9o0?t=47>

# Dilution in Kerri's example

Shareholder	Percentage	Shares
Kerri	2%	100
Everyone else	98%	4,900
Total	100%	5,000

Kerri's 100 shares were worth 2% of the company.

# Dilution in Kerri's example

Shareholder	Percentage	Shares
Kerri	1.4%	100
Everyone else	70%	4,900
New investors	28.6%	2,000
<b>Total</b>	<b>100%</b>	<b>7,000</b>

A year later, Meetly decides it needs more money, so it brings in new investors.

# Dilution in Kerri's example

<b>BEFORE</b>	Shareholder	Percentage	Value
	Kerri	2%	\$2M
	Others	98%	\$98M
	<b>Total</b>	<b>100%</b>	<b>\$100M</b>

<b>AFTER</b>	Shareholder	Percentage	Value	
	Kerri	1.4%	?	←
	Others	70%	?	←
	Investors	28.6%	\$20M	
	<b>Total</b>	<b>100%</b>	<b>\$120M</b>	

# Dilution in Kerri's example

**BEFORE**

Shareholder	Percentage	Value
Kerri	2%	\$2M
Others	98%	\$98M
Total	100%	\$100M

**AFTER**

Shareholder	Percentage	Value
Kerri	1.4%	\$2M
Others	70%	\$98M
Investors	28.6%	\$20M
Total	100%	\$120M

<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>



# Taxes really matter when you exercise your options...

# Taxes really matter when you exercise your options...

what-i-wish-id-know-about-equity-before-joining-a-unicorn.md Raw

## What I Wish I'd Known About Equity Before Joining A Unicorn

**Disclaimer:** This piece is written anonymously. The names of a few particular companies are mentioned, but as common examples only.

This is a short write-up on things that I wish I'd known and considered before joining a private company (aka startup, aka unicorn in some cases). I'm not trying to make the case that you should *never* join a private company, but the power imbalance between founder and employee is extreme, and that potential candidates would do well to consider alternatives.

None of this information is new or novel, but this document aims to put the basics in one place.

### The Rub

#### Lock In

- After leaving a company, you generally have 90 days to exercise your options or they're gone. This seems to have originally developed around a historical rule from the IRS around the treatment of ISOs, but the exact reason doesn't really matter anymore. The only thing that does matter is that if you ever want to leave your company, all that equity that you spent years building could evaporate if you don't have the immediate cash reserves to buy into it.
- Worse yet, by exercising options you owe tax immediately on money that you never made. Your options have a *strike price* and private companies generally have a *409A valuation* to determine their fair market value. You owe tax on the difference between those two numbers multiplied by the number of options exercised, even if the illiquidity of the shares means that you never made a cent, and have no conceivable way of doing so for the foreseeable future.
- Even if you have the money to buy your options and pay the taxman, that cash is now locked in and could see little return investment for a long period of time. Consider the opportunity cost of what you could

# Taxes really matter when you exercise your options...

## The Rub

### Lock In

- After leaving a company, you generally have 90 days to exercise your options or they're gone. This seems to have originally developed around a historical rule from the IRS around the treatment of ISOs, but the exact reason doesn't really matter anymore. The only thing that does matter is that if you ever want to leave your company, all that equity that you spent years building could evaporate if you don't have the immediate cash reserves to buy into it.
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- Even if you have the money to buy your options and pay the taxman, that cash is now locked in and could see little return on investment for a long and uncertain amount of time. Consider the opportunity cost of what you could otherwise have done with that liquid capital.
- Due to tax law, there is a ten year limit on the exercise term of ISO options from the day they're granted. Even if the shares aren't liquid by then, you either lose them or exercise them, with exercising them coming with all the caveats around cost and taxation listed above.

Does ten years sound like a long time? Consider the ages of these unicorns:

  - Palantir is now thirteen years old.
  - Dropbox will be ten years old this year (2017).
  - AirBnB, GitHub, and Uber are all within a year or two of their ten year birthdays.
- Some companies now offer 10-year exercise window (after you quit) whereby your ISOs are automatically converted

# Taxes really matter when you exercise your options...

There are two types of taxes you should keep in mind when exercising your options:

**Ordinary Income Tax**

**VS**

**Capital Gains**

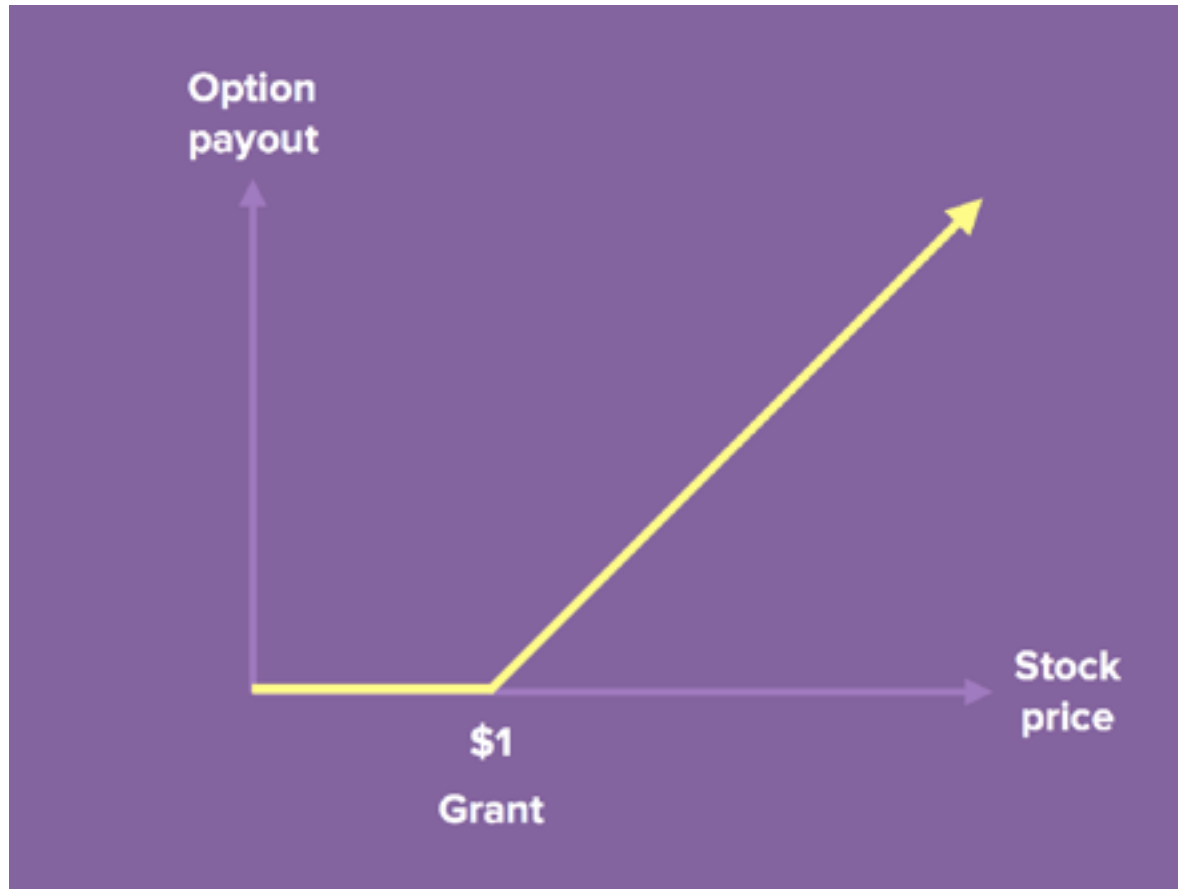
# Taxes really matter when you exercise your options...

There are two types of taxes you should keep in mind when exercising your options:

**Ordinary Income Tax** applies to things like wages and salaries.

**Capital Gains** tax applies to any profits you make from selling an asset.

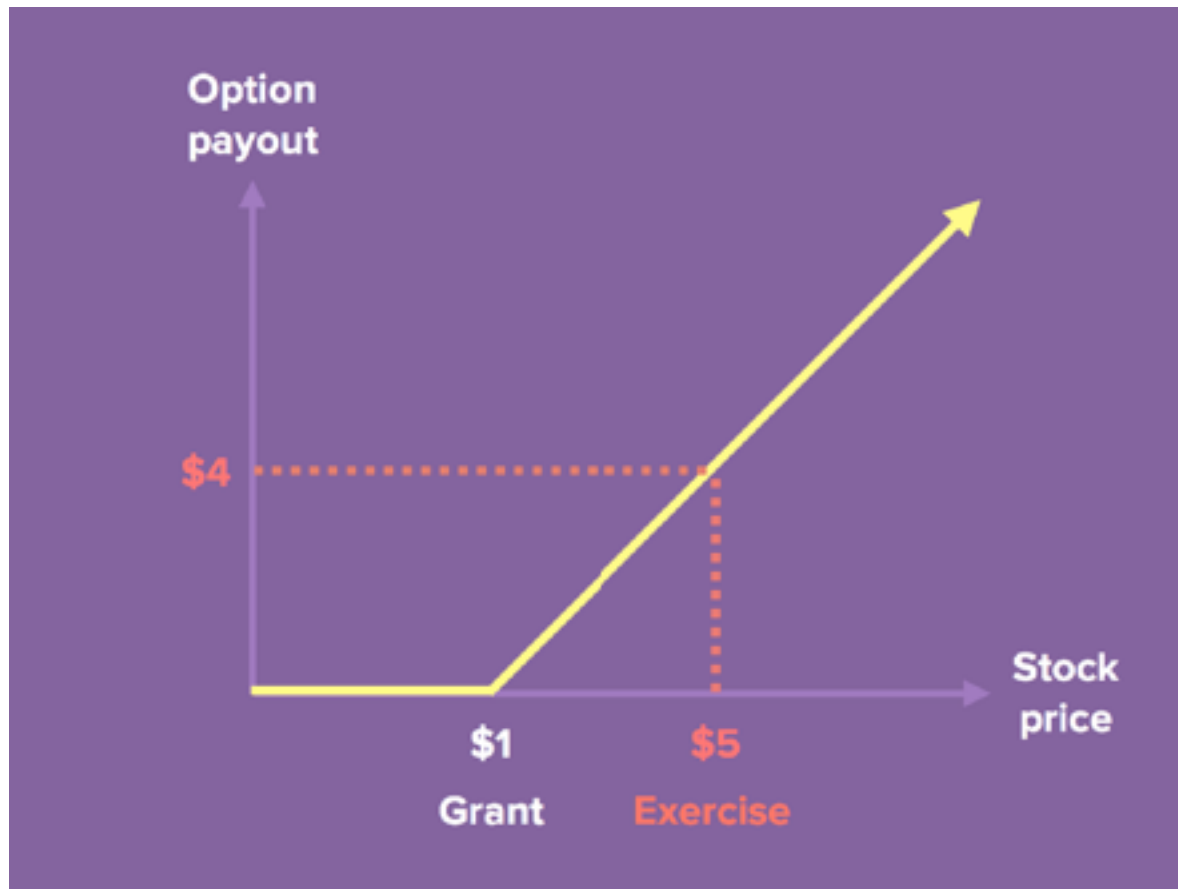
# Taxes on payouts in Kerri's example



This graph shows Kerri's option payout as a function of Meetly's stock price.

The option payout is represented by the yellow line.

# Taxes on payouts in Kerri's example

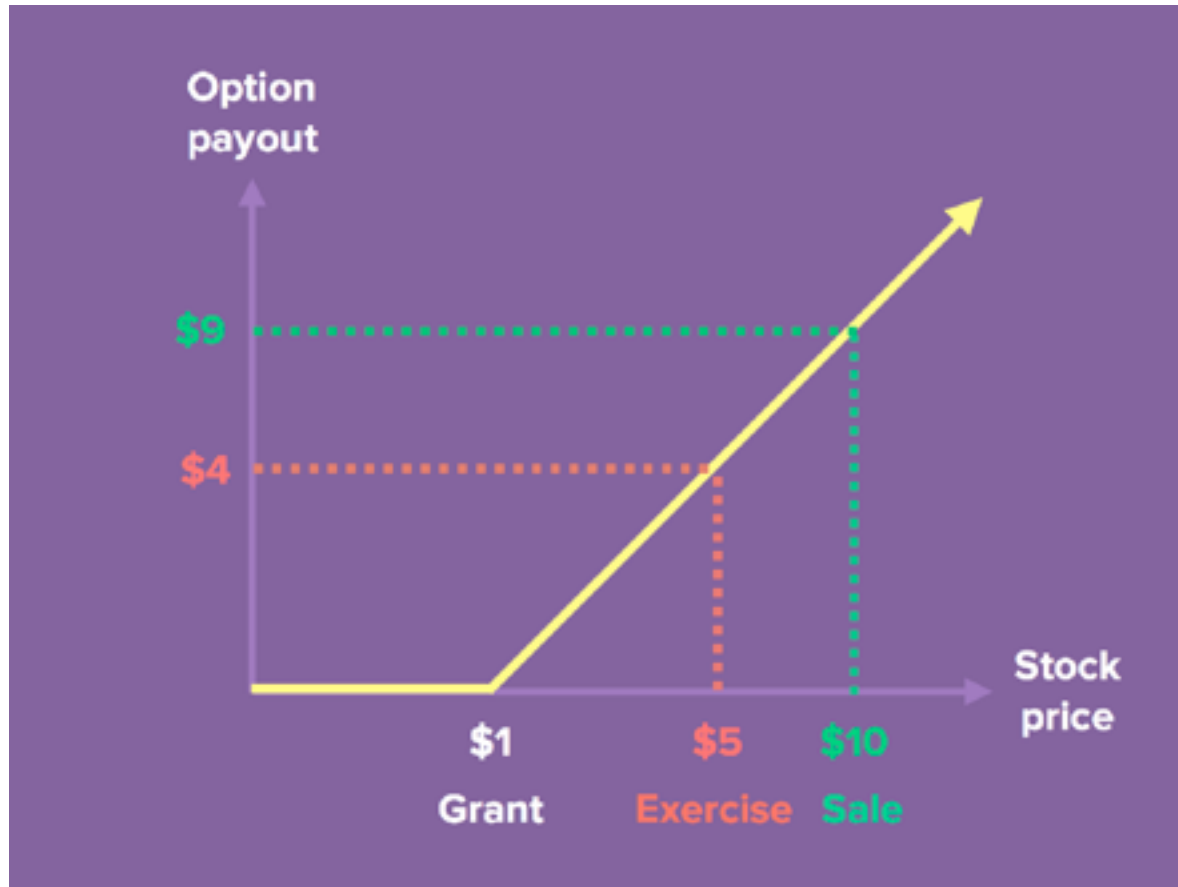


If Kerri decides to exercise when the stock price is \$5, her option payout is \$4.

That's the \$5 stock price minus her \$1 strike price.



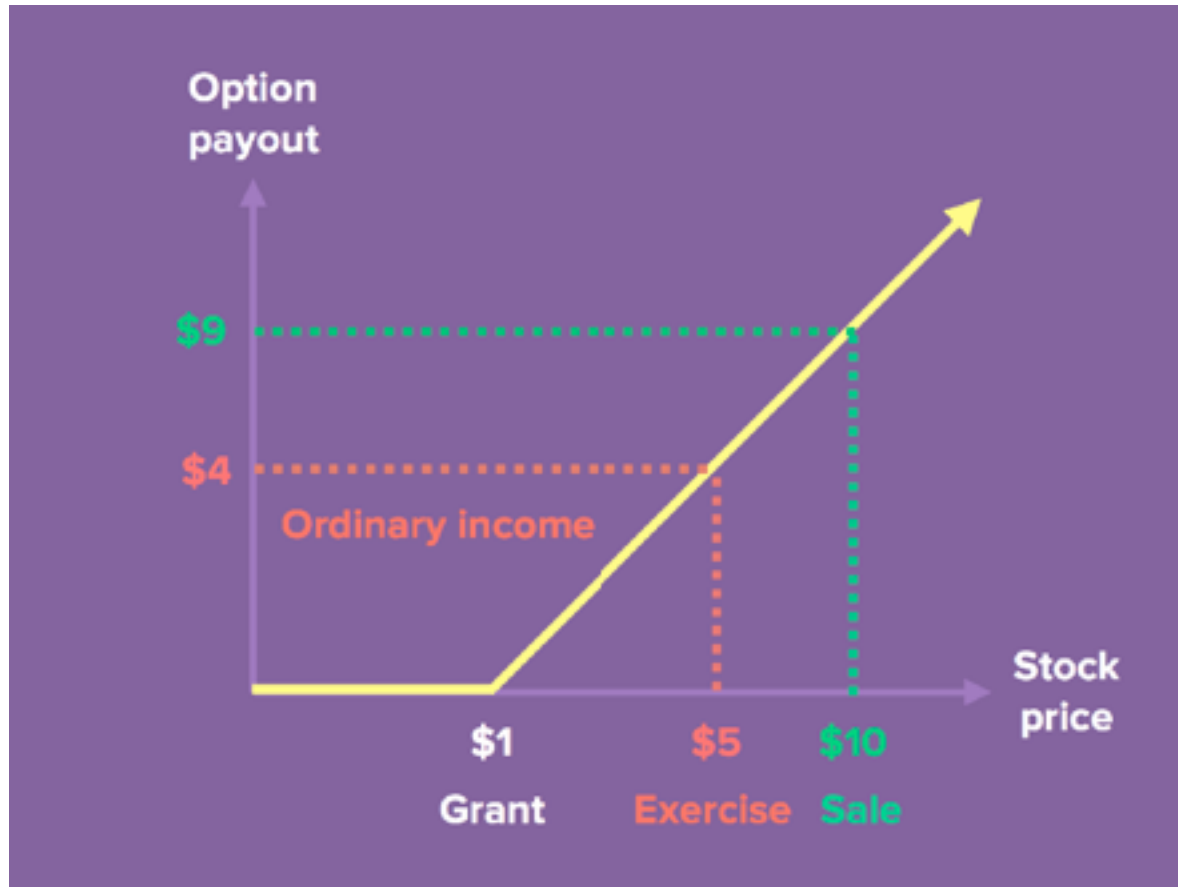
# Taxes on payouts in Kerri's example



Now let's assume Kerri sells the stock when the stock price is \$10. Her option payout here is \$9.

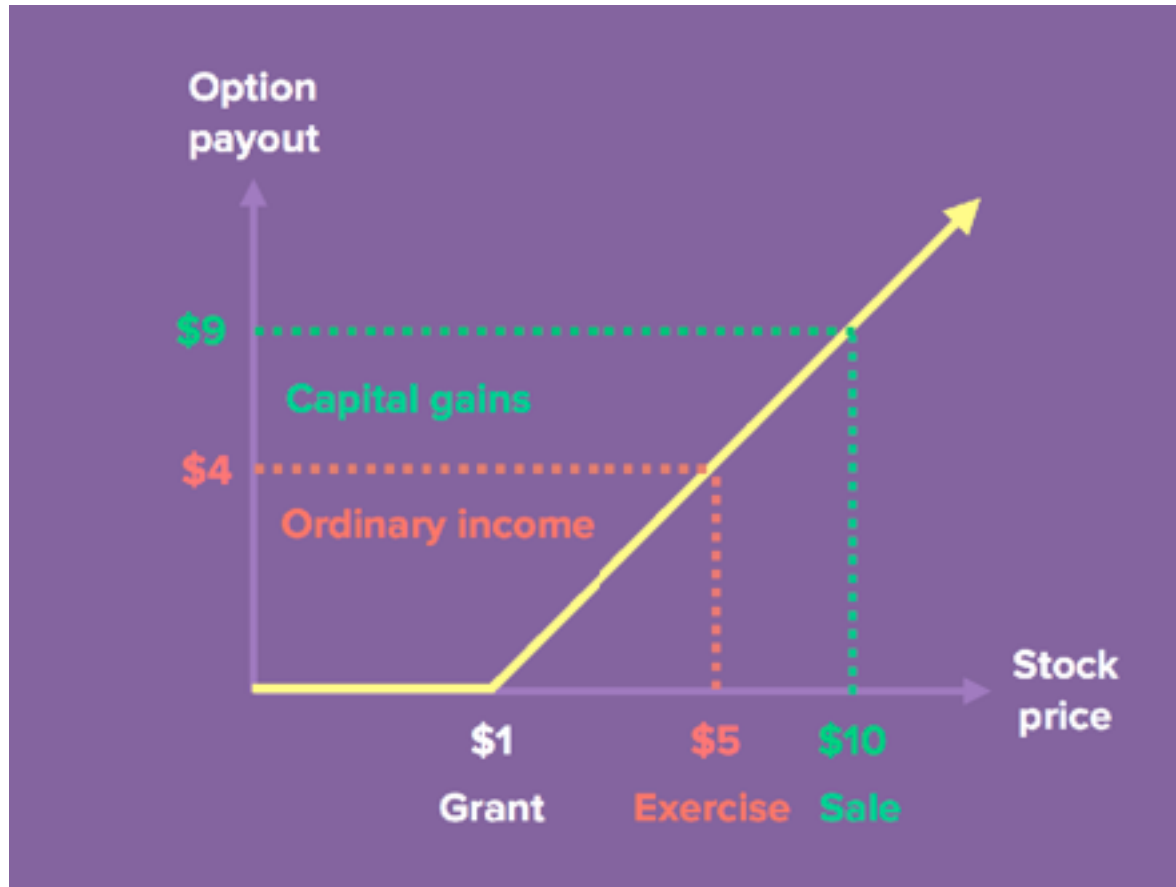
Again, the \$10 stock price minus her \$1 strike price.

# Taxes on payouts in Kerri's example



Any gain before the exercise is treated as Ordinary Income tax

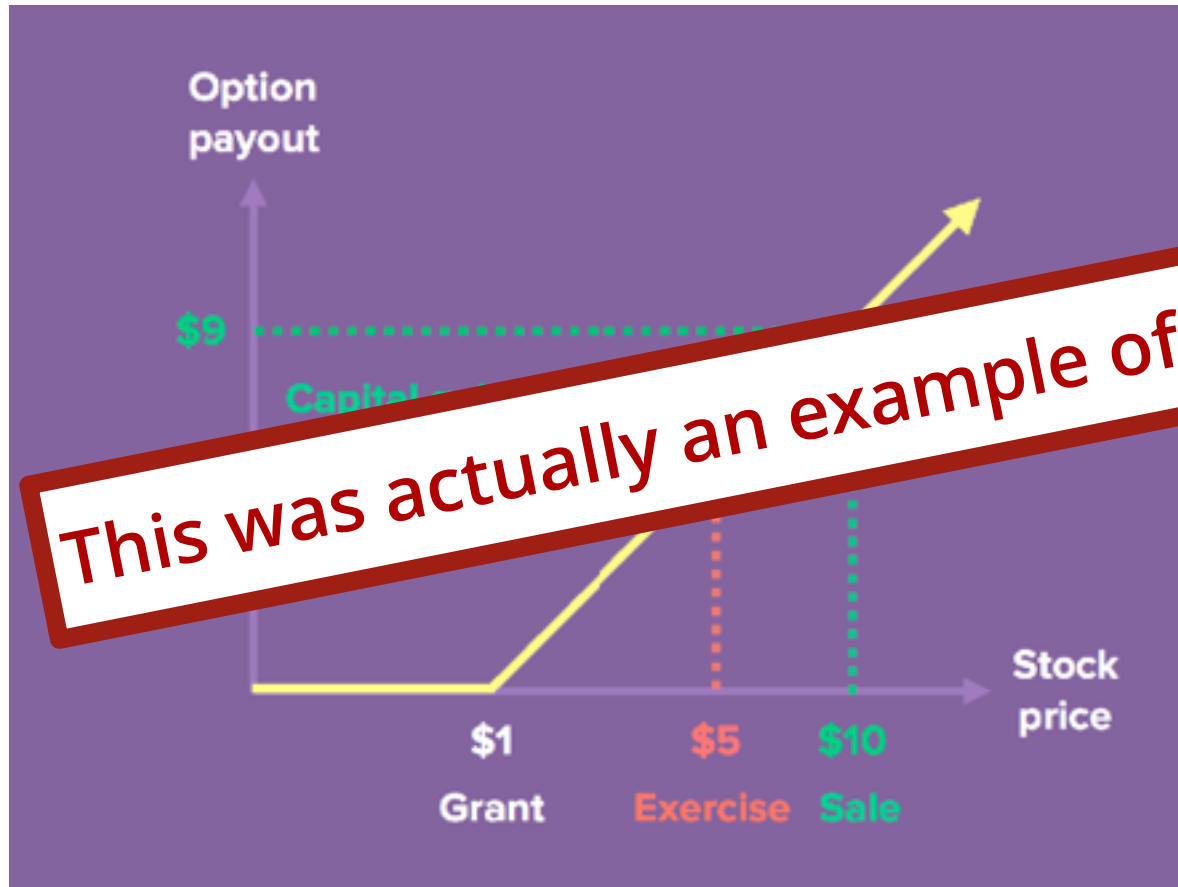
# Taxes on payouts in Kerri's example



On top of that, any gain in the stock price after the exercise is treated as Capital Gains tax.

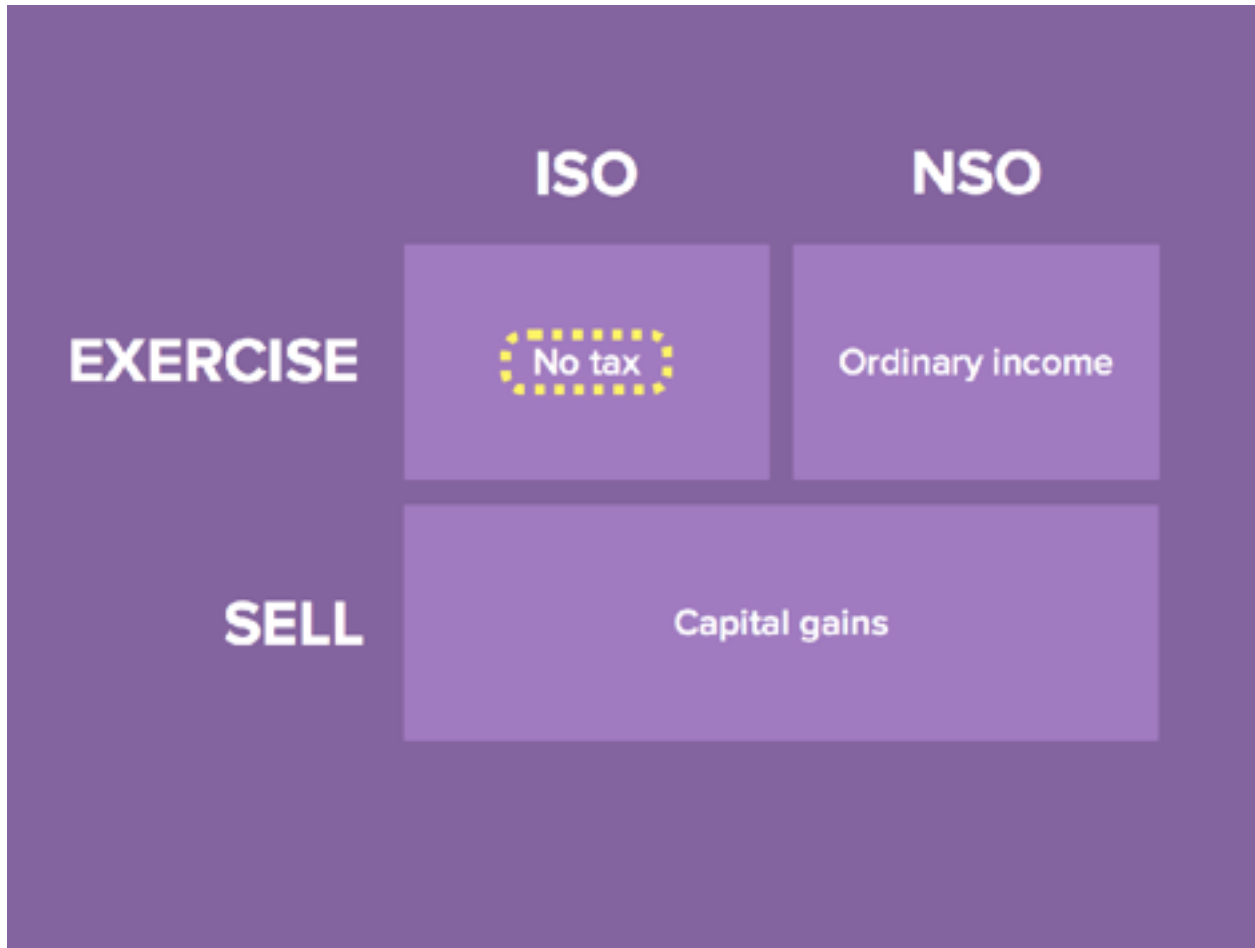
Because Kerri owns the stock at this point, any gain she makes at sale is a profit from selling as asset.

# Taxes on payouts in Kerri's example



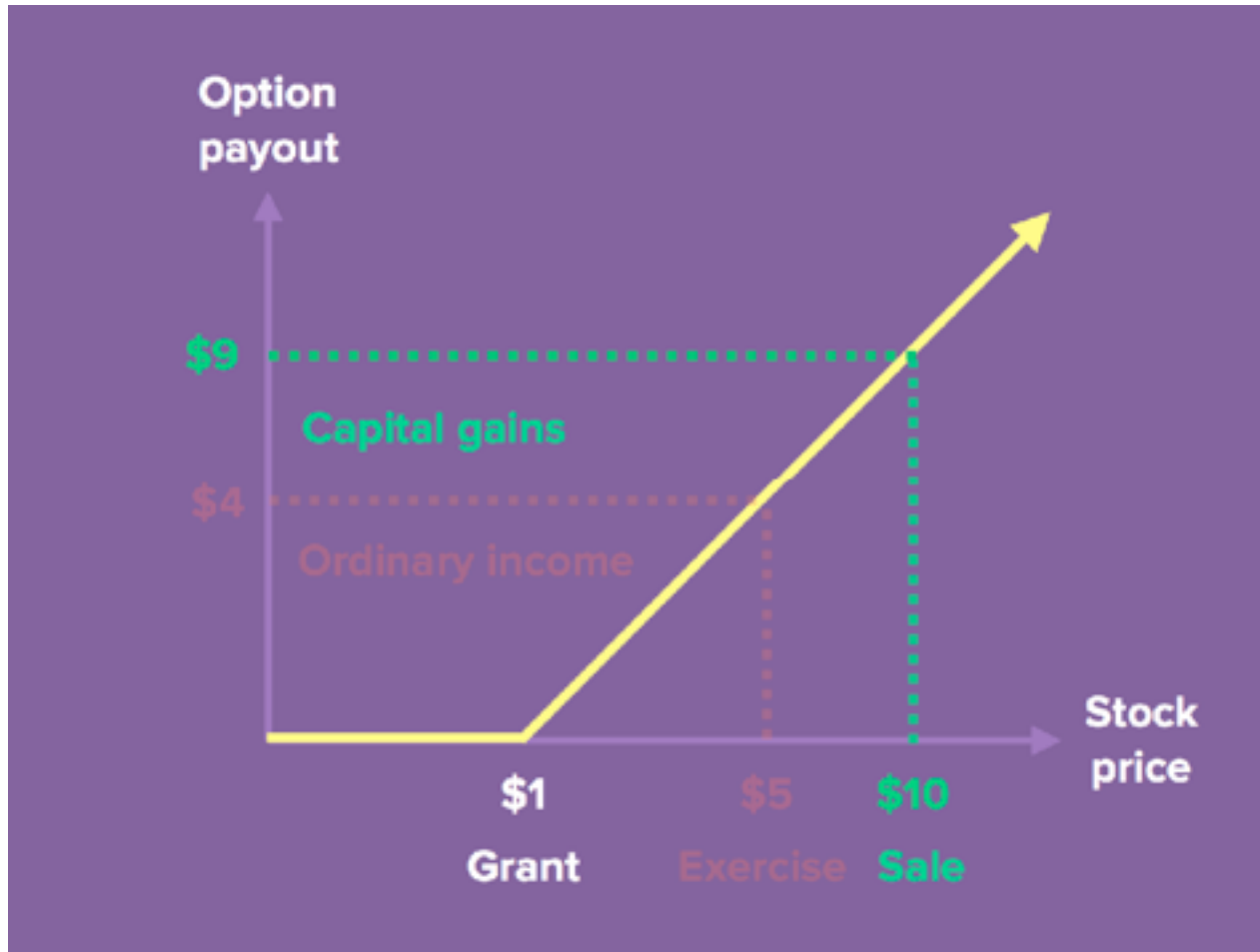
<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>

# ISOs vs NSOs on Kerri's example



The benefit of having ISOs is that you do not pay tax on the day you exercise.

# ISOs vs NSOs on Kerri's example



In Kerri's case, the entire \$9 payout is taxed as Capital Gains and she does not have to pay that tax until she sells the stock.

# One other tax you should be aware of...

## Alternative Minimum Tax (AMT)

AMT is a separate set of tax rules that include external factors like ISO exercises in your tax calculation.

If the AMT calculation exceeds the normal amount, you will need to pay the greater of the two calculation.

AMT can potentially be thousands of dollars, depending on your income and the gain you realize from the exercise.



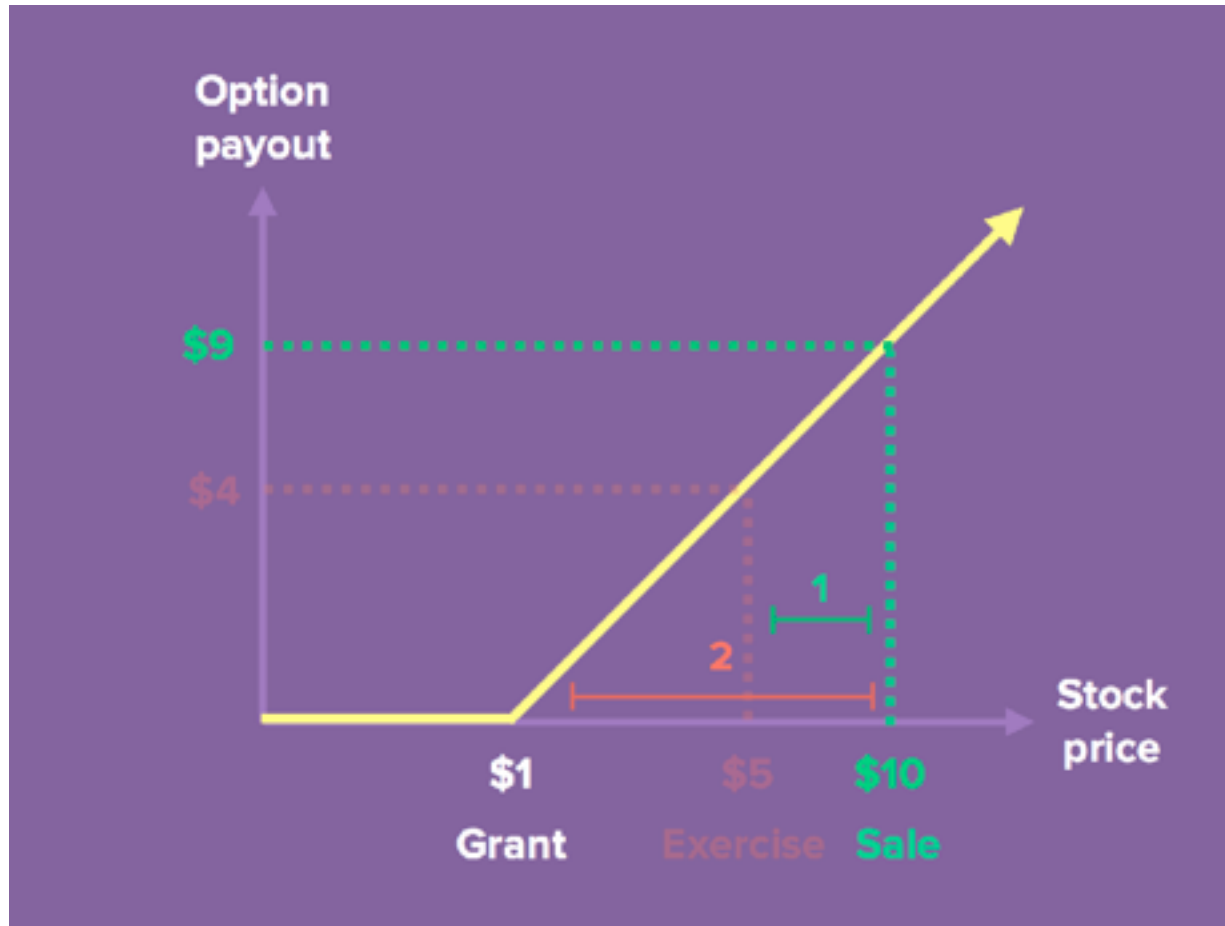
# In order to receive tax benefits, you must adhere to a holding period

The main reason ISOs are nice is that you don't have to pay tax on the day that you exercise (unless you owe AMT)

To receive this benefit, however, you have to meet certain holding periods:

**the day you sell the stock** needs to be at least **2 years after the day your options were granted**, and **1 year after the day your options were exercised**.

# Holding periods in Kerri's example



If either of these holding periods aren't met, your options are treated as NSOs (=more tax)

# But when do people exercise then?

# But when do people exercise then?

**Scenario 1:** (Usually) **upon termination.**

And remember, you always have a window—typically 30-90 days—to exercise your vested options.

**When this happens, you are exercising at some point in the middle of the grant's life. That means you will most likely pay some mix of Ordinary Income tax and Capital Gains tax upon the sale of the stock.**

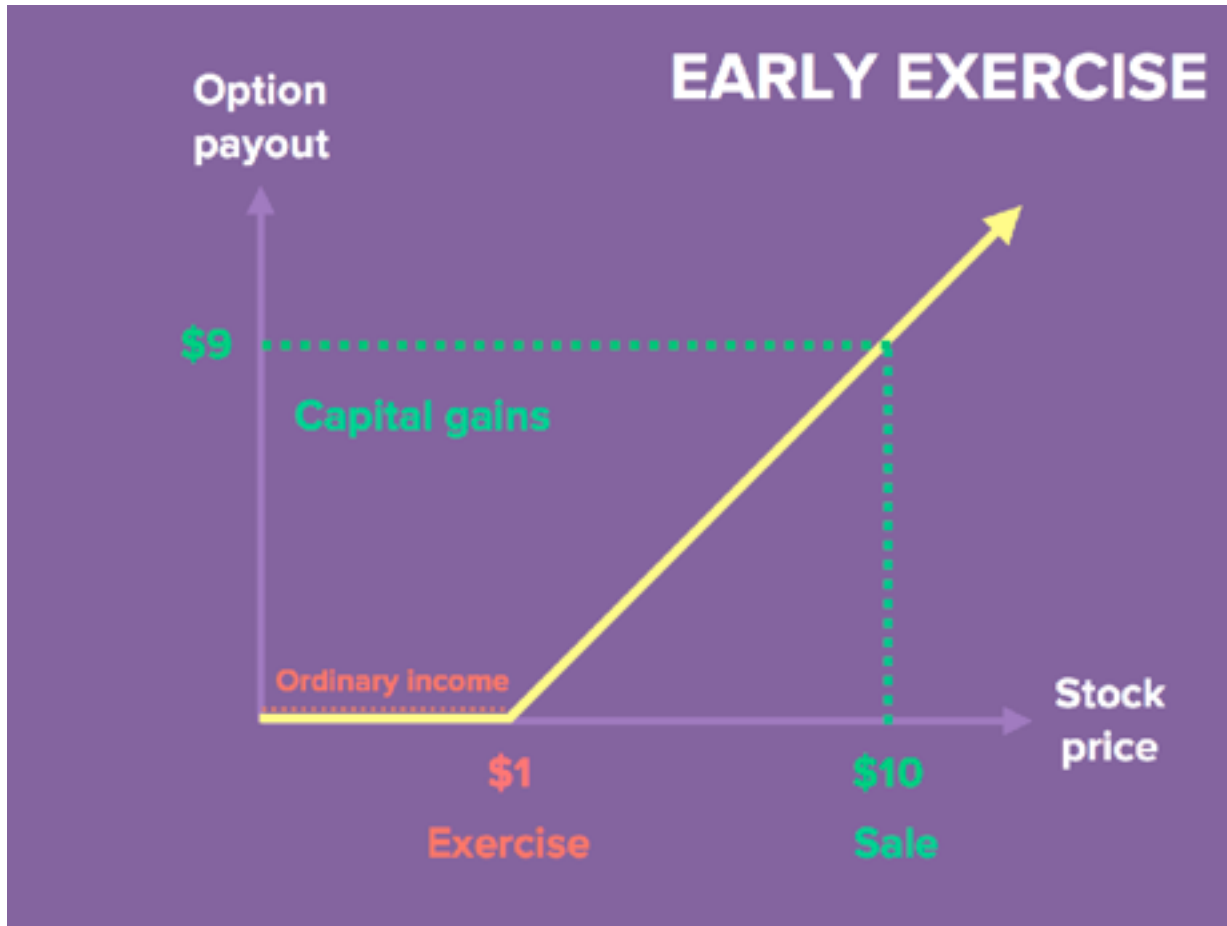
# But when do people exercise then?

## Scenario 2: Early exercise.

Some companies allow this, and it just means you can exercise your options before they have vested.

But this is risky!

# Holding periods in Kerri's example



Risky because:

**There is no guarantee that your stock will ever be liquid, so you are paying to buy stock that could one day be worthless.**

# But when do people exercise then?

## Scenario 3: Upon Exit

This is the least risky time to exercise, because you know the stock is liquid immediately.

You can turn around and sell the stock for a gain (hopefully) the same day you pay to buy it.

**The downside in this situation is that you usually end up paying more tax.**

*Remember those holding periods we talked about (the day you sell the stock needs to be at least one year after the day you exercised your options)? That holding period won't be met if you sell the stock on the same day you buy it. If this happens, you're options will be treated like NSOs, and any pre-exercise gain is taxed as Ordinary Income.*

<https://medium.com/eshares-blog/understand-your-options-equity-101-for-startup-employees-part-1-6eaea8cfcb4>



# Equity. How much should I ask for?

The screenshot shows the Angel.co website's 'Silicon Valley Startup Salary & Equity' page. The page features a navigation bar with links for 'STARTUP JOBS', 'RECRUIT', 'INVEST', 'BLOG', and 'MORE'. A search bar and a 'Join Login' link are also present. The main content area is titled 'Silicon Valley Startup Salary & Equity' and includes a 'Share' button. Below the title, there are filters for 'Role' and 'Location'. The 'Role' filter is set to 'all' and shows various job titles like 'Developer', 'Sales', 'Full Stack Developer', etc. The 'Location' filter is set to 'Silicon Valley' and shows other locations like 'San Francisco', 'New York City', etc. A bar chart displays the distribution of compensation packages, with the x-axis representing compensation ranges and the y-axis representing the number of jobs. The chart shows a peak in the '\$-9%' range with 51 jobs. Below the chart, there are 213 matching jobs listed, including '7 Cups', 'Scribd', 'Lerk', and 'LearnData'. The average salary is listed as \$128,000.

**Filters** [Reset](#)

**Role** [compare all](#)

Developer Sales Full Stack Developer Marketing  
Backend Developer Frontend Developer  
Business Development Designer Mobile Developer  
Product Manager Marketing Manager UI/UX Designer  
Data Scientist DevOps Growth Hacking  
Software Architect Account Manager [more](#)

**Location** [compare all](#)

**Silicon Valley** San Francisco New York City Europe  
India London Los Angeles Boston Toronto  
Karnataka Texas Bengaluru Seattle  
Maharashtra France Berlin Chicago [more](#)

**Skill** [compare all](#)

**Javascript** Python Product Management Java  
Business Development Ruby on Rails  
Sales and Marketing Project Management  
iOS Development Social Media Marketing CSS  
HTML5 & CSS3 Android HTML MySQL PHP  
Django [more](#)

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Enterprise Software Consumers Mobile Finance  
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Fashion Mobile Health Nonprofits Art

Compensation: Salary **Equity**

213 Matching Jobs **\$128,000** AVG SALARY

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# I need more intuition about stock options.

