Understanding a Unicorn

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What Is a Unicorn?

A unicorn is a privately held startup company with a valuation of more than \$1 billion. It's popular in the venture capital industry. Aileen Lee, a venture capitalist, popularized the term in 2013. Unicorns are extremely rare and necessitate creativity. Because of their size, unicorn investors are typically private investors or venture capitalists, making them out of reach for retail investors. Although it is not required, many unicorns work their way up to becoming public.

This project will involve working with Unicorn Companies data to answer a series of questions about Unicorn companies. This project's analysis will be carried out using R.

```
#Loading Libraries we'll be using for this project
library(tidyverse)
## Warning in as.POSIXlt.POSIXct(Sys.time()): unable to identify current
timezone 'C':
## please set environment variable 'TZ'
## — Attaching packages -
                                                               - tidyverse
1.3.1 —
## √ ggplot2 3.3.6
                       ✓ purrr
                                 0.3.4
## √ tibble 3.1.7
                       √ dplyr
                                 1.0.9
## √ tidyr 1.2.0

√ stringr 1.4.0

## √ readr
             2.1.2

√ forcats 0.5.1

## — Conflicts —
tidyverse_conflicts() —
## X dplyr::filter() masks stats::filter()
## X dplyr::lag()
                     masks stats::lag()
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
```

```
library(ggplot2)
library(readr)
library(dplyr)
library(tidyr)
```

With Polarity Groups launching a new venture, Polarity Ventures, investing in and funding start-ups, small businesses with impressive growth and high growth potential will be the best bet for breaking into the venture capital world. Unicorn Companies, startups, and small businesses with the potential to become Unicorns are the target market.

This open data set from datacamp.com was discovered during one of our research projects. This data set will be used to determine what kind of market we are entering and what to look for and off when evaluating a business.

The following are the questions that will be addressed in this project:

- Which Unicorn Companies have had the biggest return on investments?
- How long does it usually take for a company to become a unicorn? Has it always been this way?
- Which countries have the most unicorns? Are there any cities that appear to be industry hubs?
- Which investors have funded the most unicorns?

The dataset contains a record of private companies with a valuation of more than \$1 billion as of March 2022, including each company's current valuation, funding, country of origin, industry, select investors, and the years it was founded and became a unicorn.

```
#Loading dataset a csv file, and assigning date to date datatype
Unicorn_Companies <- data.frame(read_csv("Unicorn_Companies.csv", #setting</pre>
date in date datatype
                              col_types = cols(Date_Joined = col_date(format
= "%m/%d/%Y"))))
head(Unicorn Companies)
##
       Company Valuation Date_Joined
                                                             Industry
City
## 1 Bytedance
                   $180B 2017-04-07
                                             Artificial intelligence
Beijing
## 2
        SpaceX
                   $100B 2012-12-01
                                                                Other
Hawthorne
## 3
                          2018-07-03 E-commerce & direct-to-consumer
        SHEIN
                   $100B
Shenzhen
                    $95B 2014-01-23
## 4
       Stripe
                                                              Fintech San
Francisco
## 5
       Klarna
                    $46B 2011-12-12
                                                              Fintech
Stockholm
                                        Internet software & services
## 6
                    $40B 2018-01-08
        Canva
                                                                        Surry
Hills
```

```
##
                       Continent Year Founded Funding
           Country
## 1
             China
                                         2012
                                                   $8B
                            Asia
## 2 United States North America
                                         2002
                                                   $7B
## 3
             China
                                         2008
                                                   $2B
                            Asia
## 4 United States North America
                                         2010
                                                   $2B
## 5
                                                   $4B
            Sweden
                          Europe
                                         2005
## 6
         Australia
                         Oceania
                                         2012
                                                 $572M
                                                              Select Investors
##
      Sequoia Capital China, SIG Asia Investments, Sina Weibo, Softbank Group
## 1
                  Founders Fund, Draper Fisher Jurvetson, Rothenberg Ventures
## 2
## 3 Tiger Global Management, Sequoia Capital China, Shunwei Capital Partners
                                  Khosla Ventures, LowercaseCapital, capitalG
## 4
            Institutional Venture Partners, Sequoia Capital, General Atlantic
## 5
## 6
                   Sequoia Capital China, Blackbird Ventures, Matrix Partners
```

The data arrived in a format that would have made analysis extremely difficult; a restructuring was required to make the analysis possible; changes such as substituting B (for billions) for actual zeros (000..) and setting appropriate datatypes were required. Symbols and letters must be removed in order to assign an appropriate datatype. NAs in funding are funds invested by investors that are not recorded in the dataset and cannot be accessed from any sources, so NAs were converted to zeros for ease of computation. Data Manipulation

```
#Resigning Valuation column to appropriate Datatype
#For Valuation
Unicorn Companies<-mutate(Unicorn Companies, Valuation = substring(Valuation,</pre>
2))
Unicorn Companies<-
mutate(Unicorn_Companies, Valuation=gsub("B", "000000000", Unicorn_Companies$Val
uation))
Unicorn_Companies<- mutate(Unicorn_Companies, Valuation =</pre>
as.double(Valuation))
#For Funding
Unicorn Companies<-
mutate(Unicorn_Companies, Funding=gsub("B", "000000000", Unicorn_Companies$Fundi
ng))
Unicorn Companies<-
mutate(Unicorn_Companies, Funding=gsub("M", "000000", Unicorn_Companies$Funding)
Unicorn Companies<-mutate(Unicorn_Companies, Funding = substring(Funding, 2))</pre>
Unicorn Companies<- mutate(Unicorn Companies, Funding = as.double(Funding))</pre>
## Warning in mask$eval_all_mutate(quo): NAs introduced by coercion
# Correcting the spelling of Artificial Intelligences
Unicorn Companies<-mutate(Unicorn Companies, Industry = gsub("Artificial</pre>
intelligence",
                                                               "Artificial
Intelligences",Unicorn Companies$Industry))
```

```
Unicorn Companies<-mutate(Unicorn Companies, Industry = gsub("Artificial</pre>
Intelligence",
                                                             "Artificial
Intelligences",Unicorn_Companies$Industry))
#Substituting "NA" to 0, for easy computation.
Unicorn Companies<-mutate(Unicorn Companies, Funding =</pre>
replace(Unicorn_Companies$Funding,is.na(Unicorn_Companies$Funding),0))
head(Unicorn Companies)
##
       Company Valuation Date Joined
                                                             Industry
City
## 1 Bytedance
                 1.8e+11 2017-04-07
                                           Artificial Intelligences
Beijing
## 2
        SpaceX
                 1.0e+11 2012-12-01
                                                                0ther
Hawthorne
## 3
        SHEIN
                 1.0e+11 2018-07-03 E-commerce & direct-to-consumer
Shenzhen
## 4
        Stripe
                 9.5e+10 2014-01-23
                                                              Fintech San
Francisco
## 5
        Klarna
                 4.6e+10 2011-12-12
                                                              Fintech
Stockholm
## 6
        Canva
                 4.0e+10 2018-01-08
                                        Internet software & services
                                                                        Surry
Hills
##
           Country
                       Continent Year Founded Funding
## 1
             China
                            Asia
                                         2012 8.00e+09
## 2 United States North America
                                         2002 7.00e+09
## 3
             China
                            Asia
                                         2008 2.00e+09
## 4 United States North America
                                         2010 2.00e+09
## 5
            Sweden
                          Europe
                                         2005 4.00e+09
        Australia
                                         2012 5.72e+08
## 6
                         Oceania
##
                                                              Select Investors
## 1 Sequoia Capital China, SIG Asia Investments, Sina Weibo, Softbank Group
                  Founders Fund, Draper Fisher Jurvetson, Rothenberg Ventures
## 2
## 3 Tiger Global Management, Sequoia Capital China, Shunwei Capital Partners
                                  Khosla Ventures, LowercaseCapital, capitalG
## 4
## 5
            Institutional Venture Partners, Sequoia Capital, General Atlantic
                   Sequoia Capital China, Blackbird Ventures, Matrix Partners
## 6
```

The data is now ready for analysis after all necessary cleaning and formatting. Now we will investigate the questions that have been posed for this project; the results are only as good as the questions posed. Data always tells you what you ask it, so no matter how much potential a data has, if you don't ask the right questions, you won't get anything useful out of it. To achieve the desired results, four (4) questions were developed for this analysis.

1. Which Unicorn Companies have had the biggest return on investments?

To determine which companies have the highest return on investment, we must first calculate the return on investment (ROI) for all of the companies in the data. By calculating the ROI, we can correctly and accurately determine which companies have the highest

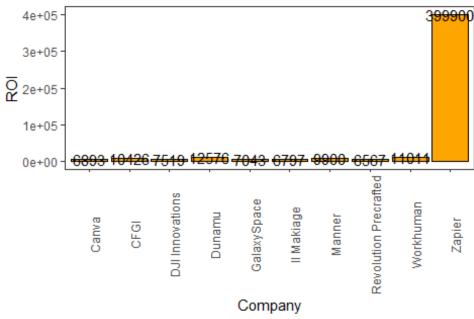
return on investment from all investments made on this data set. Naming the column with the results as ROI (Return On investment).

```
#Creating a table to house return On Investment. Keeping Calculated columns
separate from original data
return on investment<-Unicorn Companies%>%
  select(Company, Select Investors, Funding, Valuation)
#Calculating return on investment (ROI)
ROI<-((Unicorn Companies$Valuation -
Unicorn_Companies$Funding)/Unicorn_Companies$Funding)*100
#Fixing the result into our table
return_on_investment<-mutate(return_on_investment, ROI = round(ROI))#removing</pre>
decimal point
#filtering to remove Companies without funding, after the calculation their
ROI returned as Inf
return on investment<-return on investment%>%
filter(ROI != "Inf")%>%
   arrange(desc(ROI))
head(return_on_investment)
##
             Company
## 1
              Zapier
## 2
              Dunamu
## 3
           Workhuman
## 4
                CFGI
## 5
              Manner
## 6 DJI Innovations
##
                                                        Select Investors
Funding
## 1
          Sequoia Capital, Bessemer Venture Partners, Threshold Ventures
1.00e+06
## 2 Qualcomm Ventures, Woori Investment, Hanwha Investment & Securities
7.10e+07
## 3
                                                                      ICG
9.00e+06
## 4
                                 The Carlyle Group, CVC Capital Partners
1.90e+07
## 5
                             Coatue Management, H Capital, Capital Today
1.00e+07
## 6
                                         Accel Partners, Sequoia Capital
1.05e+08
## Valuation
                  ROI
## 1
         4e+09 399900
## 2
         9e+09 12576
## 3
         1e+09 11011
## 4 2e+09 10426
```

```
## 5
         1e+09
                 9900
## 6
                 7519
         8e+09
# Limiting to Top 10 companies for better presentation
Top.10.ROI<-return on investment%>%
  top_n(10)
## Selecting by ROI
# A bar chart showing what all this code means
ggplot(Top.10.ROI, aes(x=Company, y=ROI))+
  geom_bar(color="black",fill="orange",stat="identity")+
  labs(title = "Top 10 Biggest Return on Investment",
       subtitle="Years. Period: 2007-2022.",
       caption="Source: Unicorn Companies")+
  geom text(aes(label=signif(ROI)), nudge y = 1)+
  theme test()+
  theme(axis.text.x = element_text(angle = 90))
```

Top 10 Biggest Return on Investment

Years. Period: 2007-2022.



Source: Unicorn Companies

Companies with a

high valuation do not necessarily represent the best investments, because a large amount of money could have been invested in the company, resulting in a high valuation. Looks can be deceiving when it comes to a company that received a small amount of funding and has done exceptionally well, but its valuation cannot be compared to companies that received much larger amounts of funding. According to the bar chart above, these companies are not even in the top 20 when it comes to valuation.

Moving on.

2. How long does it usually take for a company to become a unicorn? Has it always been this way?

PPolarity Ventures wants to know how long it will take their principal to reach maturity, which is defined as the company being valued at \$1 billion while remaining privately held. We can calculate the difference in years by using the year each company was founded and the year they achieved Unicorn status. We can then draw conclusions and look for patterns in the differences.

```
# Extracting the year companies reached unicorn status as Year Reached
Unicorn_Companies<-mutate(Unicorn_Companies, Year_Reached = year(Date_Joined))</pre>
# Difference in years will give us duration in years
Unicorn_Companies<-mutate(Unicorn_Companies, diffInYear = Year_Reached -</pre>
Year Founded)
# DiffInYear, grouping the duration (diffInYear) to see how many companies
fall into each duration of years
diffInYearCount<-Unicorn Companies%>%
  count(diffInYear, name = "CountofdiffInYear", sort = TRUE)%>%
  arrange(desc(CountofdiffInYear))
diffInYearCount
##
      diffInYear CountofdiffInYear
## 1
                                 138
               6
                5
## 2
                                 129
               4
## 3
                                 125
## 4
               7
                                 107
## 5
                3
                                  98
               8
                                  88
## 6
## 7
               2
                                  68
## 8
              10
                                  62
## 9
               9
                                  52
## 10
               1
                                  36
## 11
               11
                                  36
## 12
               14
                                  20
## 13
               13
                                  19
## 14
              12
                                  17
## 15
              16
                                  10
## 16
               17
                                  10
## 17
               0
                                   9
                                   9
## 18
               15
                                   7
## 19
               19
## 20
               18
                                   6
               20
                                   6
## 21
## 22
               21
                                   6
## 23
               22
                                   5
                                   2
## 24
               25
                                   2
## 25
               27
               37
                                   2
## 26
```

```
## 27 -4 1
## 28 24 1
## 29 26 1
## 30 28 1
## 31 98 1
```

The created diffInYearCount table shows how many companies fall into each category, as well as how long it took each company to become a unicorn. In order to accurately answer the question of how long it takes for a company to become a unicorn and if it has already done so, some criteria must be considered, such as the year the company was founded, the continent of the company, and so on.

```
#how Long it takes
average_diffInYear<-round(mean(Unicorn_Companies$diffInYear),2)
paste(average_diffInYear,"years",sep = "")
## [1] "7years"</pre>
```

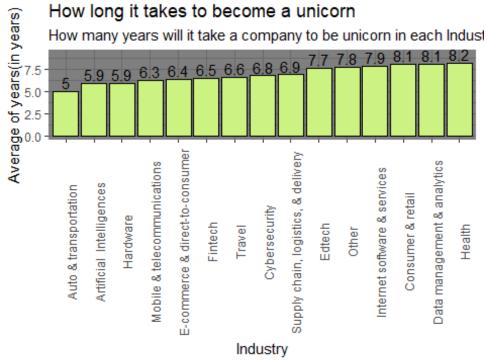
It takes an average of 7 years for a company to become a unicorn. There have been companies that have taken 40 years or more to become unicorns. The year the company was founded will be grouped. The first group (group 1) will be for companies founded between 1919 and 2000, and the second group (group 2) will be for companies founded between 2001 and 2021.

```
#Creating filter criteria with year founded
start<-1919
end<-2000
start1<-2001
end1<-2021
#Getting the average duration for companies created from 1919 to 2000(group1)
group1<-Unicorn Companies%>%
  filter(between(Year Founded, start, end))%>%
  summarise(Avg.year = mean(diffInYear, na.rm = TRUE))%>%
  mutate(Avg.year= round(Avg.year,1))
group1
##
    Avg.year
## 1
         23.7
#Getting the average duration for companies created from 2001 to 2021(group2)
group2<-Unicorn Companies%>%
  filter(between(Year_Founded, start1, end1))%>%
  summarise(Avg.year = mean(diffInYear,na.rm = TRUE))%>%
  mutate(Avg.year= round(Avg.year,1))
group2
    Avg.year
##
## 1
         6.4
```

According to the table above, it took group 1 23.7 years on average to become a unicorn, while group 2 took 6.41 years. Taking into account other factors, if Polarity Ventures wishes to invest in a company, we can now easily access or evaluate the time it will take an investment to mature. We can see how long it takes companies in a specific industry to become a unicorn, and we can further narrow it down by country, industry, and continent.

```
#Average years for companies in a Industry to become unicorn
duration Industry<-Unicorn Companies%>%
  group by(Industry)%>%
  summarise(Avg.year = mean(diffInYear), count of company = n())%>%
  mutate(Avg.year = round(Avg.year,1))%>%
  arrange(desc(count_of_company))
duration Industry
## # A tibble: 15 × 3
                                          Avg.year count_of_company
##
      Industry
##
      <chr>>
                                              <dbl>
                                                               <int>
## 1 Fintech
                                               6.5
                                                                 224
## 2 Internet software & services
                                                                 205
                                               7.9
## 3 E-commerce & direct-to-consumer
                                                6.4
                                                                 111
## 4 Artificial Intelligences
                                                5.9
                                                                  84
## 5 Health
                                                                  74
                                                8.2
## 6 Other
                                               7.8
                                                                  58
## 7 Supply chain, logistics, & delivery
                                               6.9
                                                                  57
## 8 Cybersecurity
                                               6.8
                                                                  50
## 9 Data management & analytics
                                                                  41
                                               8.1
## 10 Mobile & telecommunications
                                               6.3
                                                                  38
## 11 Hardware
                                                5.9
                                                                  34
## 12 Auto & transportation
                                               5
                                                                  31
                                                7.7
## 13 Edtech
                                                                  28
## 14 Consumer & retail
                                               8.1
                                                                  25
## 15 Travel
                                               6.6
                                                                  14
# Getting a clear picture
ggplot(duration_Industry, aes(x=reorder(as.character(Industry), Avg.year),
y=Avg.year)) +
  geom col(fill="#CCF381",color = "black")+
  labs(title="How long it takes to become a unicorn",
       subtitle = "How many years will it take a company to be unicorn in
each Industry",
       caption="Source: Unicorn Companies 2021",
```

```
x="Industry",
    y="Average of years(in years)")+
geom_text(aes(label=signif(Avg.year)),nudge_y = 1)+
theme_dark()+
theme(axis.text.x = element_text(angle = 90))
```



Source: Unicorn Companies 2021
The chart above

shows how long it takes for a company in a specific industry to become a unicorn.

Is this how it has always been? No, according to our above analysis, the average time it takes for a company to become a unicorn has decreased to 6.41 years since 2001, from over 23 years previously. To go deeper and gain a better understanding of countries, industries, and cities, simply substitute the criteria you want in the groupby statement, and the mean (average) of the duration (diffInYear) can be determined. When evaluating a potential investment, this information can help predict how long the investment will be profitable.

3. Which countries have the most unicorns? Are there any cities that appear to be industry hubs?

Let us now determine where our primary focus will be, our market. Wants to understand. Now we'll see how many unicorns come from each country to determine where our main focus will be placed.

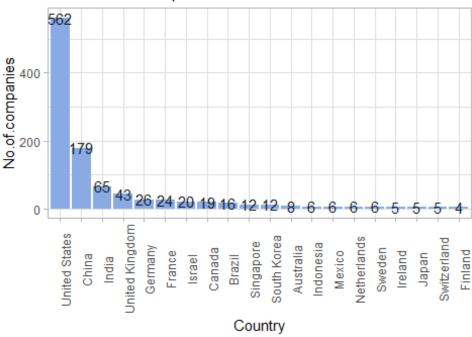
```
#Change Hong kong to China in region
Unicorn_Companies<-mutate(Unicorn_Companies, Country = gsub("Hong Kong",
"China",Unicorn_Companies$Country))
# Grouping to see how many unicorn from each country</pre>
```

```
CountryCount<-Unicorn_Companies%>%
  count(Country, name = "CountofCountry", sort = TRUE)%>%
  arrange(desc(CountofCountry))
head(CountryCount)
            Country CountofCountry
##
## 1 United States
## 2
                                179
              China
## 3
              India
                                 65
## 4 United Kingdom
                                 43
## 5
                                 26
            Germany
## 6
             France
                                 24
```

From 1919 to 2021, the top six countries in terms of unicorn births were the United States, China, India, the United Kingdom, Germany, and France. With more information, we can select the best market for Polarity Ventures..

Countries with most Unicorn

Countries that has provide the most unicorn



The numbers of

unicorns countries have provides, with United States being the country with the most unicorns and China following suits, now we can choose and focus on a region or regions as our market.

Are there any cities that appear to be industry hubs?

Narrowing into cities to make use of the information we have concerning cities unicorn has been coming from we can investigate to see if some cities have favours compared to others and if we should be looking out for those cities.

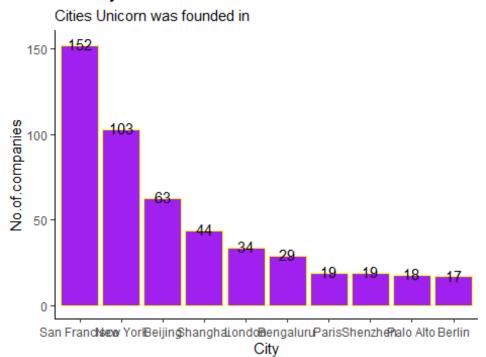
```
#Top cities
CityCount<-Unicorn_Companies%>%
    count(City,name = "CountofCompany", sort = TRUE)%>%
    arrange(desc(CountofCompany))%>%
    mutate(CountofCompany2 = CountofCompany)%>%
    mutate(CountofCompany2 = as.character(CountofCompany2))

#Top 20 Cities with most unicorn
Top.Cities<-CityCount[1:10,]

# Presentation of the findings
ggplot(Top.Cities,aes(x=reorder(City,-CountofCompany),y=CountofCompany))+
    geom_col(color="yellow",fill= "purple")+
    labs(title = "Industry Hub",
        subtitle = "Cities Unicorn was founded in",
        x = "City",
        y = "No.of.companies")+</pre>
```

```
geom_text(aes(label=signif(CountofCompany)),nudge_y = 1,color="black")+
theme classic()
```

Industry Hub



visibility, only the top ten cities were included. As a result, cities with more unicorns. If we choose a country as our target market, we can see which cities have purchased the most unicorns. The map above depicts the top cities in the world.

To improve

4. Which investors have funded the most unicorns?

The last question is to figure out investors who have funded the most unicorn, this could be an added advantage for us at Polarity Ventures, using this information, going forward we can watch closely the which sector and companies this top investors are investing in and also making considerations of whether to go into business with them. In the unicorn data, the investors column holds the together all investors who funded a business. For us to get the top investors we will have to separate each investor distinctively.

```
# Keeping columns we only need
Investors<-Unicorn_Companies%>%
   select(Company,Select_Investors)
Investors<-data.frame(Investors)

#separate the investors into 3 different columns
Investors<-
transform(Investors,test=do.call(rbind,strsplit(Select_Investors,",", fixed = TRUE)), stringsAsFactors = F)</pre>
```

```
## Warning in (function (..., deparse.level = 1) : number of columns of
result is
## not a multiple of vector length (arg 2)
head(Investors)
##
       Company
## 1 Bytedance
## 2
        SpaceX
## 3
         SHEIN
## 4
        Stripe
## 5
        Klarna
## 6
         Canva
##
                                                              Select Investors
      Sequoia Capital China, SIG Asia Investments, Sina Weibo, Softbank Group
## 1
## 2
                  Founders Fund, Draper Fisher Jurvetson, Rothenberg Ventures
## 3 Tiger Global Management, Sequoia Capital China, Shunwei Capital Partners
## 4
                                   Khosla Ventures, LowercaseCapital, capitalG
## 5
            Institutional Venture Partners, Sequoia Capital, General Atlantic
## 6
                   Sequoia Capital China, Blackbird Ventures, Matrix Partners
##
                             test.1
                                                       test.2
              Sequoia Capital China
                                         SIG Asia Investments
## 1
## 2
                      Founders Fund Draper Fisher Jurvetson
## 3
            Tiger Global Management
                                        Sequoia Capital China
## 4
                    Khosla Ventures
                                             LowercaseCapital
## 5 Institutional Venture Partners
                                              Sequoia Capital
## 6
              Sequoia Capital China
                                           Blackbird Ventures
##
                        test.3
                                                        test.4
                                                Softbank Group
## 1
                    Sina Weibo
## 2
           Rothenberg Ventures
                                                 Founders Fund
## 3
      Shunwei Capital Partners
                                       Tiger Global Management
## 4
                      capitalG
                                               Khosla Ventures
## 5
              General Atlantic Institutional Venture Partners
## 6
               Matrix Partners
                                         Sequoia Capital China
```

Now that our investors have been separated, we'll remove the original investors column and any other columns that aren't relevant to this analysis so that it doesn't affect our results. And combining the separate columns into one column so that we only have one column for investors. Most companies had three investors, but few had four, so when we split the investors columns, companies with three investors were automatically filled in the fourth column with the first investor before the comma (test.4)

```
#remove other columns and combine remaining columns into one
Investors<-subset(Investors, select = -Select_Investors)

#Remove the fourth column
Investors<-subset(Investors, select = -test.4)

# here we'll fix in the investors of the companies with four investors
manually</pre>
```

```
Investors$test5<-ifelse(Investors$Company=="Bytedance", "Softbank Group","")</pre>
Investors$test5<-ifelse(Investors$Company=="Niantic", "Spark</pre>
Capital", Investors$test5)
Investors$test5<-ifelse(Investors$Company=="Rappi", "Redpoint</pre>
e.ventures", Investors$test5)
Investors$test5<-ifelse(Investors$Company=="Yixia", "Redpoint</pre>
ventures",Investors$test5)
Investors$test5<-ifelse(Investors$Company=="Lightricks","Goldman</pre>
Sachs",Investors$test5)
# Stacking the investors into one column
Investors<-Investors%>%
  cbind(Investors[1], stack(Investors[2:5]))
## Warning in data.frame(..., check.names = FALSE): row names were found from
## short variable and have been discarded
# Removing columns
drop<-c("test.1","test.2","test.3","test.4","ind","test5")</pre>
Investors<-Investors[,!(names(Investors)%in%drop)]</pre>
Investors<-subset(Investors, select = -Company)</pre>
# Renaming Columns
Investors<-rename(Investors, Investors = values, Company=Company.1)</pre>
# Trimming white spaces
Investors<-Investors%>%
  mutate all(str trim)
#Removing duplicates, that came about because of split and stack process.
Investors<-distinct(Investors, Company, Investors, .keep all = TRUE)</pre>
#Top investors
Investors.count<-Investors%>%
  group by(Investors)%>%
  count(Investors, name = "no.of.investment", sort = TRUE)%>%
  mutate(investments = as.character(no.of.investment))
#remove the row of the investor without a name
Investors.count<-Investors.count[-1,]</pre>
# Top 15 investors
Top.15.Investors<-Investors.count[1:15,]</pre>
head(Top.15.Investors)
## # A tibble: 6 × 3
## # Groups:
               Investors [6]
                              no.of.investment investments
## Investors
```

```
## <chr>
## 1 Accel 59 59

## 2 Tiger Global Management 53 53

## 3 Andreessen Horowitz 52 52

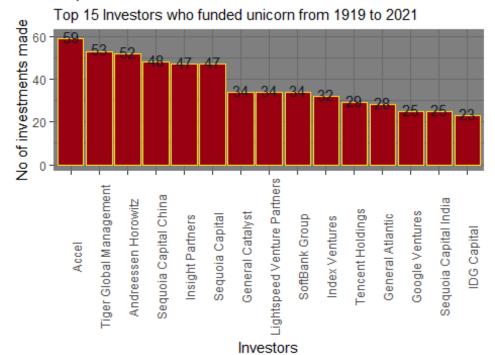
## 4 Sequoia Capital China 48 48

## 5 Insight Partners 47 47

## 6 Sequoia Capital Arrows 47 47
```

We have now successfully obtained our Top investors from 1919 to 2021, thus the timeline of this data. Accel on top with 59 unicorn investments, a fantastic achievement, and Tiger Global management following suit with 53 investments. Putting everything together, we'll make a chart to help us understand the codes and numbers.

Top Investors



Polarity Ventures

can successfully navigate the venture capital business with the results of this analysis,

meeting the goal of targeting small businesses or start-ups with the potential to become unicorns. However, the information contained in this data (unicorn companies) is insufficient to predict whether a company will become a unicorn; much more information will be required to reach such conclusions; the result of this analysis, to some extent, provides an idea in meeting Polarity Ventures' goal.

Insights

Finally, all of the questions posed for this analysis were duly addressed by; 1. Zappier had the highest return on investment, with a ROI of 399900%, which is an excellent return on investment.

- 2. How long does it take for a company to become a unicorn? On average, we found that it takes a startup 7 years, but when we take some criteria into account, such as the year founded, we find that it takes approximately 24 years for startups founded between 1919 and 2000. From 2001 to 2021, it takes an average of 7 years; we also looked into how long it will take startups in various industries.
- 3. Countries with the most unicorns, the United States (USA) came in first with over 500 unicorns, with China close behind, and San Franceso identified as an industry hub.
- 4. The final question was to identify the top investors who had funded the most unicorns. Accel has funded 59 unicorns, which is a good track record, and Tiger Global management has funded 53 unicorns.