Google Inc. share price on the BMV

Google Inc. Cotización de Google Inc. en BMV

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Abstract

In 1995, two young doctoral level students at Stanford University, Larry Page and Sergey Brinse postulate his doctoral thesis in computer science, where his idea was to create an algorithm to organize Internet searches. In 1996, develop a system to search the internet (BackRud) that used links to determine the importance of specific web pages and was a year later when he decides to rename the browser and name "Google". The name originates from the word "Googol" which means 10 I evelado to 100.

Google, Internet, BMV

Resumen

En 1995, dos jóvenes estudiantes de nivel de doctorado en la Universidad de Stanford, Larry Page y Sergey Brinse postulan a su tesis doctoral en informática, donde su idea era crear un algoritmo para organizar las búsquedas en Internet. En 1996, desarrolla un sistema de búsqueda en internet (BackRud) que utilizaba enlaces para determinar la importancia de determinadas páginas web y fue un año después cuando decide cambiar el nombre del buscador y llamarlo "Google". El nombre tiene su origen en la palabra "Googol" que significa 10 evelado a 100.

Google, Internet, BMV

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† Researcher contributing first author.

Introduction

In 1995, two young Ph.D. students at Stanford University, Larry Page and Sergey Brinse, submitted their doctoral thesis in computer science, where their idea was to create an algorithm to organize Internet searches.

In 1996, he developed a system to search the Internet (BackRud) that used links to determine the importance of specific web pages and it was a year later when he decided to change the name of the search engine to -Google‖.

The name has its origin in the word -Googol‖ which means 10 evelado a la 100.

Google Inc. was born in 1998, when the co-founder of Sun Mycrosystem, decided to grant a check of 100,000 USD and that is how it was consolidated as a company, in September of that same year.

It was in 2004 when Google Inc. debuted on the United States stock exchange (NASDAQ) on August 18, 2004, with an initial public offering of 19,605,052 common shares.

Definition and geographical representation of Google Inc.

Definition

International technology company that offers an internet search engine through its website. Offers a wide variety of search options. Date of listing on bmv apr 03, 2014

Geographical representation

Google se encuentra ubicado en más de 40 países alrededor de mundo con más de 70 oficinas, ubicadas en Norte América, Latín América, Europa, África y Asía.

Figure 1

Products and services offered by Google Inc.

- Google AdWords

- Google Adsense

- Google AdMob

- Google My Business

- Google Ads

- Google App for Work

- Google Analytics

- YouTube

Company name

GOOG Inc /Alphabetic Inc.

*Market in which it is listed*

NASDAQ

Legal basis

Google is a company and the revenue it earns comes from offering search technology to businesses and from selling advertising displayed on our search engine and other sites on the Web.

Risk and return variables

Descripción:	Variable:	Valor:
Precio máximo	P_a^M	10886.38
Precio minimo	P_i^M	10829
Variación	V	0.47
PPP	PPP	0
Max. año anterior	MP_a^a	7892.5
Min. año anterior	M_a^i	6573.75
Acciones en Circulación	A_c	341,692,000
Partición 1	P_1	0
Partición 2	P_2	10,839.07
Partición 3	P_3	10,886.38
Partición 4	P_4	10,837.40
Partición 5	P_5	10,840.00
Partición 6	P_6	10860.50
Partición 7	P_7	10860.50
Precio/Utilidad	Pu	0
Precio/Valor libro	P^{VL}	0
Precio último Hecho	P^{Uh}	10860.5
Vólumen de compra	V_c	3
Vólumen de venta	V_V	0
Postura de compra	P_c	9890
Valor Libro p/Acción	V^{La}	0

Vólumen Operado	V_o	4734
Tipo de cambio (Dollar)	D_P	16.58
Tipo de cambio (Dollar)	D_I	1
Postura de venta	P_V	0
Inflación No Subyacente (Sep 2015)	IPC	2.96
Inflación Subyacente (Sep 2015)	IPC_S	2.38
Uilidad p/Acción	U_a	0

Table 1
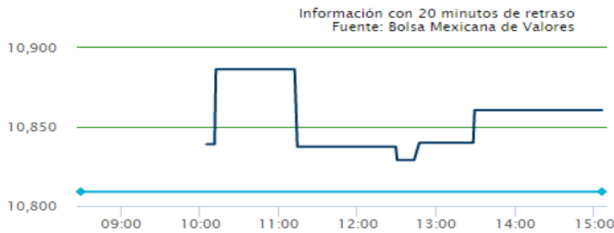
Graphic 1 Represents Goog Inc.'s stock market performance
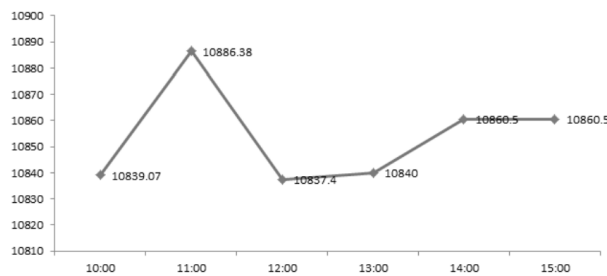
Graphic 2 Represents the market shares of Goog Inc.

PUT (Sales) Model

$$P = \frac{[V_V - P_V]^{1/2}}{V_0 - P^{Uh}} + \frac{3}{4}\left[\frac{(P^{VL})}{(P_u)}\right] \to \int_{V^{La}}^{U_a}$$

$$P = \frac{[0-0]^{1/2}}{4734-10860.5} + \frac{3}{4}\left[\frac{(0)}{(0)}\right] \to \int_0^0$$

$$P = \frac{0}{-6126.5} + \frac{3}{4}[0] \to \frac{\ln(1)}{\log(1)}$$

$$P = 0 + \frac{3}{4}0 \to \frac{0}{0}$$

$$P = 0 - 0 + \frac{3}{4}(0)$$

$$P = \frac{3}{4}$$

$$P = 0.75$$

Call Model (Purchasing)

$$C = \left[\frac{V_c - \frac{P_c}{1}}{\left|\frac{V_o}{Puh}\right|^{\frac{1}{2}}}\right]^{\frac{3}{4}} + \int^{Pul} - [\int^{Pu} + \int]_{\infty\ldots}^{U^a + V^{La}}$$

$$C = \left[\frac{3 - \frac{9890}{1}}{\left|\frac{4734}{10860.5}\right|^{\frac{1}{2}}}\right]^{\frac{3}{4}} + \int^0 - [\int^0 + \int]_{n-1}^{0+0}$$

$$C = \left[\frac{-9887}{[0.43]^{\frac{1}{2}}}\right]^{\frac{3}{4}} + \frac{\ln(1)}{\log(-1)} - \left[\frac{\ln(1)}{\log(-1)} + \frac{\ln}{\log}\right]_{n-1}^{0}$$

$$C = \left[\frac{-9887}{0.65}\right]^{\frac{3}{4}} + \frac{0}{0} - \left[\frac{0}{0} + \frac{\ln}{\log}\right]_{n-1}^{0}$$

$$C = [-15210.76]^{\frac{3}{4}} + \frac{0}{0} - \left[0 + \frac{\ln}{\log}\right]_{-1}^{0}$$

$$C = -1369.66 + 0 - \left[0 + \frac{\ln}{\log}\right]_{-1}^{0}$$

$$C = -1369.66 + 0 - \left[0 + \frac{\ln(0)}{\log(-1)}\right]$$

$$C = -1369.66 + 0 - \mathbf{0 + 0}$$

$$C = -1369.66$$

Market price model

$$PM = \frac{\partial\left[\frac{Pu + \partial P^{VL}}{Puh}\right] + \left(\frac{\partial P_V}{\partial P_C}\right)^{3/4} - \left(\frac{\partial V_V - 1}{\partial V_{C+1}}\right)^{1/2}}{\int_{Pu}^o}$$

$$PM = \frac{-1\left[\frac{0+(-1)0}{10860.5}\right] + \left(\frac{(-1)0}{(-1)9890}\right)^{3/4} - \left(\frac{(-1)0-1}{(-1)3+1}\right)^{1/2}}{\int_0^{4734}}$$

$$PM = \frac{-1\left[\frac{0+0}{10860.5}\right] + \left(\frac{0}{(-1)9890}\right)^{3/4} - \left(\frac{(-1)-1}{-3+1}\right)^{1/2}}{\frac{\ln(4734)}{\log(1)}}$$

$$PM = \frac{-1[0] + \left(\frac{0}{-9890}\right)^{3/4} - \left(\frac{-2}{-2}\right)^{1/2}}{\frac{8.46}{0}}$$

$$PM = \frac{(-1)0 + (0)^{3/4} - (1)^{1/2}}{0}$$

$$PM = \frac{-1 + (-1)}{0}$$

$$PM = -2$$

Partitions

$$P = \beta_0(P_1) + \beta_1(P_2) + \beta_2(P_3) + \beta_3(P_4) + \beta_4(P_5) + \beta_5(P_6) + \beta_6(P_7) + \beta_{-\alpha}^{\xi}$$

$$P = \begin{aligned}&\beta_0(0) + \beta_1(10839.07) + \beta_2(10886.38) + \beta_3(10837.40) + \beta_4(10840.00) +\\&\beta_5(10860.50) + \beta_6(10860.50) + \beta_{-\alpha}^{\xi}\end{aligned}$$

Market shares

$$AM = \left[\frac{P_a^M + P_i^M}{\left[\frac{PPP}{V}\right]^{1/2}}\right]^{3/4} + \left[\frac{MP_a^a + M_a^i}{A_c}\right] + \xi^2$$

$$AM = \left[\frac{10886.38 + 10829}{\left[\frac{0}{0.47}\right]^{1/2}}\right]^{3/4} + \left[\frac{7892.5 + 6573.75}{341,692,000}\right] + 1$$

$$AM = \left[\frac{21715.38}{[0]^{1/2}}\right]^{3/4} + \left[\frac{14466.25}{341,692,000}\right] + 1$$

$$AM = 0 + 0.000042 + 1$$

$$AM = 1.000042$$

Risk, return and risk vs. return model

Integration of the risk model

$$MRI = \frac{(1.000042)^{30.19}}{\{0.016\frac{\ln(1)}{\log(1)}\} - \{-1369.66 + \frac{\ln(1)}{\log(-1)} - \left[\frac{\ln(1)}{\log(-1)} + \frac{\ln}{\log}\right] + \frac{0}{-1}\}} + \frac{0}{-0.5}$$

$$MRI = \frac{1.0012}{\{0.016\frac{0}{0}\} - \{-1369.66 + \frac{0}{0} - \left[\frac{0}{0} + \frac{\ln}{\log}\right] + \frac{0}{-1}\}} + 0$$

$$MRI = \frac{1.0012}{\{0.016\} - \{-1369.66 + 0 - \left[0 + \frac{\ln}{\log}\right] + \frac{0}{-1}\}} + 0$$

$$MRI = \frac{1.0012}{\{0.016\} - \{-1369.66 - [0 + 0]\}} + 0$$

$$MRI = \frac{1.0012}{\{0.016\} - \{-1369.99\}} + 0$$

$$MRI = \frac{1.0012}{1370.006} + 0$$

$$\underline{A} \qquad \underline{C}$$

$$MRI = 0.00073 + 0$$

$$MRI = 0.00073 \%$$

Integration of the performance model

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$$MRE = \left\{ \frac{1.000039}{\left\{ \frac{0+0+\frac{0}{0}}{-1369.66+\frac{0}{0}+\frac{0}{0}\left[\frac{ln}{log}\right]+\frac{0}{-1}} \right\}^{51.64}} \right\} + \frac{0}{\frac{8.46}{0}} \quad \frac{0}{4.035}$$

$$MRE = \left\{ \frac{1.000039}{\left\{ \frac{0}{-1369.66+0+0\frac{ln(0)}{log(-1)}} \right\}^{51.64}} \right\} + \frac{0}{0} \quad \frac{0}{4.035}$$

$$MRE = \left\{ \frac{1.000039}{\left\{ \frac{0}{-1369.66+0+\frac{0}{0}} \right\}^{51.64}} \right\} + 0$$

$$MRE = \frac{1.000039}{\left\{ \frac{0}{-1369.66+0} \right\}^{51.64}} + 0$$

$$MRE = \frac{1.000039}{\left\{ \frac{0}{0} \right\}^{51.64}} + 0$$

$$MRE = \frac{1.000039}{\{0\}^{51.64}} + 0$$

$$MRE = \frac{1.000039}{0} + 0$$

$$MRE = \frac{1.000039}{B} + \underset{D}{0} - 0$$

$$MRE = \frac{1.000039}{B} + 0$$

$$MRE = 1.000039$$

Integration of the risk vs. return model

$$MRR = \int_A^B + \frac{(limC)^\pi}{(limD)^{TC}} + \left\lfloor \frac{logB}{lnA} \right\rfloor^{3/4} + \frac{(limD)^{TC}}{(limC)^\pi} + \frac{lnA+logB}{C-D} + \xi^2$$

$$MRR = \int_{0.00073}^{1.000039} + \frac{(lim\,0)^{3.14}}{(lim\,0)^{16.58}} + \left\lfloor \frac{log\,1.000039}{ln\,0.00073} \right\rfloor^{3/4} + \frac{(lim\,0)^{16.58}}{(lim\,0)^{3.14}} + \frac{ln\,0.00073+log\,1.000039}{0-0} + \xi^2$$

$$MRR = \frac{ln\,1.000039}{log\,0.00073} + \frac{(\sqrt{0})^{3.14}}{(\sqrt{0})^{16.58}} + \left\lfloor \frac{log\,1.000039}{ln\,0.00073} \right\rfloor^{3/4} + \frac{(\sqrt{0})^{716.58}}{(\sqrt{0})^{3.14}} + \frac{ln\,0.00073+log\,1.000039}{0-0} + (-1)^2$$

$$MRR = \frac{0.000039}{-3.13} + \frac{(0)^{3.14}}{(0)^{16.58}} + \left\lfloor \frac{0.000016}{-7.26} \right\rfloor^{\frac{3}{4}} + \frac{(0)^{16.58}}{(0)^{3.14}} + \frac{-7.26+0.000016}{0} + -1$$

$$MRR = -0.000012 + \frac{0}{0} + \lfloor -0.0000022 \rfloor^{\frac{3}{4}} + \frac{0}{0} + \left(\frac{-7.25}{0}\right) + -1$$

$$MRR = -0.000012 + 0 + (-0.000057) + 0 + (-7.25) + 0 - 1$$

$$MRR = -0.000012 + (-0.000057) + (-7.25) + (-1)$$

$$MRR = -0.000012 + (-0.000057) + (-7.25) + (-1)$$

$$MRR = -0.000012 - 0.000057 - 7.25 - 1$$

$$MRR = -0.000012 - 0.000057 - 7.25 - 1$$

$$MRR = -8.25$$

Risk vs. return model (Lagrange)

Lagrange

$$MRI = \cdots$$

$$MRI = \cdots$$

$$MRI = \cdots$$

$$MRI = \cdots$$

$$MRI = \frac{\{[0]^{3/4} + [0.00042] + 0.75\}^{30.22}}{\{0+0\} - \left\{ [15196.92]\frac{3}{4} + 0 - \left[0 + \frac{ln(0)}{log(-1)}\right] \right\}} + \frac{0}{-0.000046 + 0 - (-0.4)^{1/2}} \cdot \frac{0}{0}$$

$$MRI = \frac{\{0 + [0.00042] + 0.75\}^{30.22}}{\{0\} - \{1368.72 + 0 - [0+\frac{0}{0}]\}} + \frac{0}{-0.000046 - -0.63} \cdot \frac{0}{0}$$

$$MRI = \frac{\{0.75042\}^{30.22}}{\{1368.72\}} + \frac{0}{0.6299} \cdot \frac{0}{0}$$

$$MRI = \frac{0.00017}{\{1368.72\}} + \frac{0}{0}$$

$$MRI = 0.00000012 + 0$$

$$MRI = 0.00000012$$

$$MRE = \cdots$$

$$MRE = \cdots$$

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$$MRE = \frac{\left\{\left[\frac{57.38}{[0]^{1/2}}\right]^{3/4} + \left[\frac{14466.25}{3416920000}\right] + 0.75\right\}^{\frac{2.25}{2.38}}}{\left\{\frac{\frac{[0]^{1/2}}{-6126.5} + \frac{3[(0)]}{4[0]} \to_0^0}{\left[\frac{-9987}{[0.43]^{1/2}}\right]^{3/4} + f^0 - [f^0 + f]_{n-1}^{0+0}}\right\}^{(3.11)}} + 0.5\left[\frac{0+0}{10860.5}\right] + \left(\frac{0}{4945}\right)^{3/4} - \left(\frac{0-1}{1.5+1}\right)^{1/2}}{\frac{\ln(4784)}{\log(1)}}$$

$$MRE = \frac{\left\{\left[\frac{57.38}{0}\right]^{3/4} + [4.23] + 0.75\right\}^{\frac{2.25}{2.38}}}{\left\{\frac{\frac{0}{-6126.5} + \frac{3[0]}{4} \cdot \frac{\ln(1)}{\log(1)}}{\left[\frac{-9987}{0.65}\right]^{3/4} \cdot \frac{\ln(1)}{\log(-1)} - \left[\frac{\ln(1)}{\log(-1)} \cdot \frac{\ln}{\log}\right]_{n-1}^{0+0}}\right\}^{(3.11)}} + 0.5\left[\frac{0}{10860.5}\right] + \left(\frac{0}{4945}\right)^{3/4} - \left(\frac{-1}{2.5}\right)^{1/2}}{\frac{5.46}{0}}$$

$$MRE = \frac{\{0 + [4.23] + 0.75\}^{0.94}}{\left\{\frac{0 + 0 \to \frac{0}{0}}{[-15210.76]^{3/4} + \frac{0}{0} \cdot \left[\frac{0}{0} \cdot \frac{\ln}{\log}\right]_{-1}^0}\right\}^{(3.11)}} + \frac{0.5\,[0] + (0)^{3/4} - (-0.4)^{1/2}}{0}$$

$$MRE = \frac{\{4.98\}^{0.94}}{\left\{\frac{0}{-1369.66 + 0 - 0 + \frac{\ln(0)}{\log(-1)}}\right\}^{(3.11)}} + \frac{0 + 0 - -0.63}{0}$$

$$MRE = \frac{4.52}{\left\{\frac{0}{-1369.66 + 0 - 0 + \frac{0}{0}}\right\}^{(3.11)}} + \frac{0.63}{0}$$

$$MRE = \frac{4.52}{\left(\frac{0}{-1369.66}\right)^{(3.11)}} + 0$$

$$MRE = \frac{4.52}{\left\{\frac{0}{-1369.66}\right\}^{(3.11)}} + 0$$

$$MRE = \frac{4.52}{\{0\}^{(3.11)}} + 0$$

$$MRE = \frac{4.52}{0} + 0$$

$$MRE = 4.52 + 0 - 0$$

$$MRE = 4.52 + 0$$

$$MRE = 4.52$$

Percentage of Market Profit

SIM Annual rate = 36.0 %= 3 % * 12					
Time limit = Time inicial + Operativity					
Market-SIM = Time inicial * Val-Book *Asset					
Activity	Operativity	Time inicial	Time limit	Val-Book *Asset	Market-SIM
INICIO	0	8	8	0.5	4
Proc A	10886.38	16	10902.38	1.0	16
Proc B	10829	24	10853	1.5	36
M 1*	0.65	32	0	2.0	64
Proc C	0.47	40	40.47	2.5	100
M 2*	1.3	48	0	3.0	144
Proc D	7892.5	56	7948.5	3.5	196
Proc E	6573.75	64	6637.75	4.0	256
Final	0	0	0	4.5	0
					208
					163.2

Figure 2

Google has 256 days that it can be listed on the stock market with a stock market entry

Google has 109 days that it can be listed on the stock exchange with a fork

Level of net income and expenses

Purchase Volume	Sales Volume	Outstanding Shares	Net Incomes
3	0	341,692,000	**2.289.801.135**
			click to calculate
		Price Value in Book	
0.5	1.0	1.5	**1.0**
			click to calculate

Figure 3

The company shows a net income percentage of -2.28%‖ of its outstanding shares.

AC * % Net income 341,692,000 * 2.28 = 779,057,760

Net income is —779,057,760‖

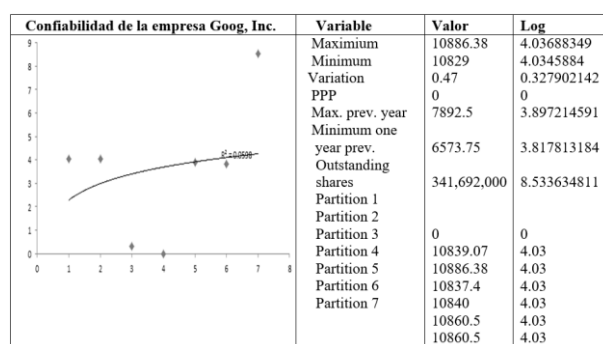| Confiabilidad de la empresa Goog, Inc.	Variable	Valor	Log
	Maximum	10886.38	4.03688349
	Minimum	10829	4.0345884
	Variation	0.47	0.327902142
	PPP	0	0
	Max. prev. year	7892.5	3.897214591
	Minimum one year prev.	6573.75	3.817813184
	Outstanding shares	341,692,000	8.533634811
	Partition 1		
	Partition 2		
	Partition 3	0	0
	Partition 4	10839.07	4.03
	Partition 5	10886.38	4.03
	Partition 6	10837.4	4.03
	Partition 7	10840	4.03
		10860.5	4.03
		10860.5	4.03

Figure 4 Reliability

As shown in the table above, the logarithm of the partitions is constant, for this reason it is said that Goog Inc. is solvent and financially well and does not need to finance or leverage, because it has a financing of 4.03 % of dividends generated.

On the other hand, the value of R2 as shown in graph 2.1 is < 0.5, therefore it is determined that it is a financially solvent company.
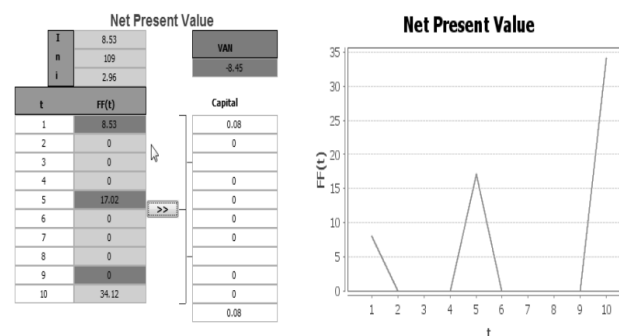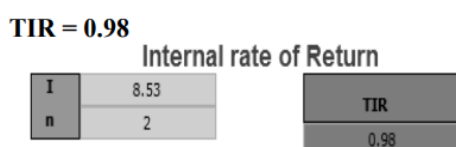

Figure 5

Net present value

Internal rate of return

TIR = 0.98

Figure 6

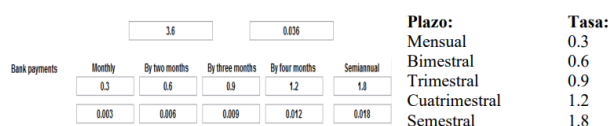*Acquisition payment rate*

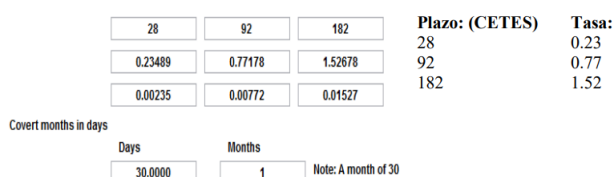**Figure 7**

Government subsidy rate
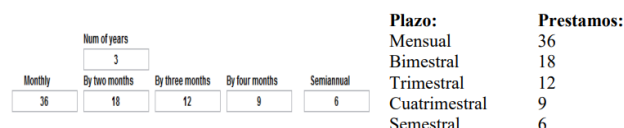
Figure 8

Funding frontier

Figure 9

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