



Stock market visualization using the Google Web Toolkit

TruongSinh Tran

Tomas Dundacek

Edoardo Menna

Isabel Maria Gracian Torrent

Samuel Longares Losilla

INDEX

➤ Introduction – GWT review

- What it is
- How it works

➤ Project goals

- Problem
- Solutions

➤ Graph examples

➤ Conclusions

INTRODUCTION – GWT REVIEW

Google Web Toolkit – what it is

- Development toolkit for building and optimizing complex browser-based applications
- Enables productive development of high-performance web application without needing expert programming skills
- Used by many products
 - Google Wave
 - AdWords
 - ...
- Open source , widespread

INTRODUCTION – GWT REVIEW

Google Web Toolkit – how it works

- Java and JavaScript code writing and compiling
- Possibility to use edit-refresh-view cycles
 - Variables inspection
 - Breakpoints setting
 - Java debugger tools
- GWT comprehensive optimization
- Download segmentation by using splitting-codes
- Speed Tracer – performances diagnosis
- Compiling into stand-alone optimized JavaScript files

PROJECT GOALS

Problems

- Write and compile a code that allows the client to visualize a stock market graph by selecting
 - Starting date
 - Finish date
 - Market indexes

- Example: Google Finance

PROJECT GOALS

Web Images Videos Maps News Shopping Gmail more ▾

TruongSinh Tran ▴ ⚙

Google finance

INDEXDJX:.DJI,INDEXSP:.INX,INDEXNAS:

Get quotes

Example: "CSCO" or "Google"

Markets

News

Portfolios

Stock screener

Google Domestic Trends

Recent quotes

[chg | %](#)
[.INX](#) 1,335.68 0.16%

[Create portfolio from quotes](#)

Recent activity

[.DJI, .INX, .IXIC](#)
[Market news](#)

Compare companies [Watch these stocks](#)

Find more results for [INDEXDJX:.DJI,INDEXSP:.INX,INDEXNASDAQ:](#)

Compare: ☒ .DJI ☐ .INX ☒ .IXIC

Zoom: [1d](#) [5d](#) [1m](#) [3m](#) [6m](#) [YTD](#) [1y](#) [5y](#) [10y](#) [All](#)

Apr 07, 2011 - Apr 07, 2011

● .DJI -0.14% ● .IXIC -0.13%



[Link to this view](#)

Show: [Most Recent Annual](#) ▾

[Add or remove columns](#)

		Valuation				
	Company name	Price	Change	Chg %	d m y	Mkt Cap
.DJI	Dow Jones Industrial A...	12,409.49	-17.26	-0.14%		
.IXIC	NASDAQ Composite	2,796.14	0.00	0.00%		

Google Finance Beta available in: [香港版 \(Hong Kong\)](#) - [Canada](#) - [U.S.](#) - [简体中文 \(China\)](#) - [U.K.](#)

Information is provided 'as is' and solely for informational purposes, not for trading purposes or advice, and may be delayed.
To see all exchange delays, please [see disclaimer](#).

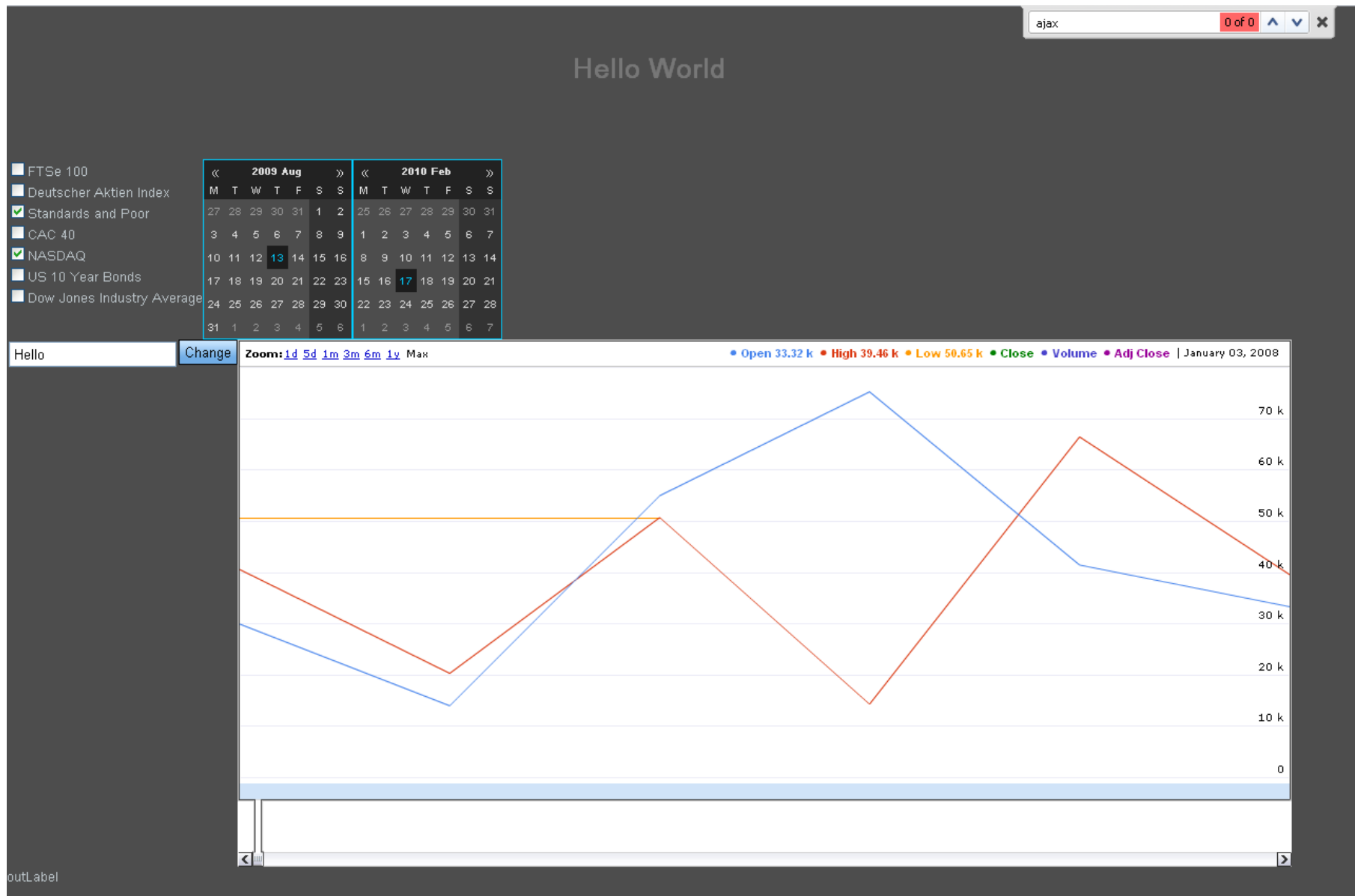
©2010 Google [Google Home](#) - [Blog](#) - [Help](#) - [Privacy Policy](#) - [Terms of Service](#)

PROJECT GOALS

Solutions

- *Google visualization for client display*
- *Google Web Toolkit for server-client communication*

GRAPH EXAMPLES



CONCLUSIONS

- *Visualization is for display large amount of figures*
- *Chart tools by Spreadsheet applications (MS Excel, OOo Spreadsheet, LO Spreadsheet, Calligra Tables)*
- *Cloud computing? → Google Spreadsheet, YOUR OWN*
- *Future works*
 - *Client-server communication*
 - *Flash vs HTML5*



**Thank you for your
attention**