

Introduction to RIA

박상길

(주)다음커뮤니케이션



Show, don't tell: Seeing is believing

Learn more and enjoy the show, but be careful! Seeing is believing is a common phrase after being impressed by those who can prove something. Don't say we don't try to work you.

RIA란 무엇인가?



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Rich Internet application

From Wikipedia, the free encyclopedia
(Redirected from [Rich Internet Application](#))

Rich Internet applications (RIA) are [web applications](#) that have the features and functionality of traditional [desktop applications](#). RIAs typically transfer the processing necessary for the [user interface](#) to the [web client](#) but keep the bulk of the data (i.e maintaining the [state](#) of the program, the data etc) back on the [application server](#).

RIAs typically:

- run in a [web browser](#), or do not require [software installation](#)
- run locally in a secure environment called a [sandbox](#)
- can be "occasionally connected" wandering in and out of hot-spots or from office to office.

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데스크탑 어플리케이션의 특징과 기능을 구현한

웹 어플리케이션

History of RIAs

- Remote Scripting, Microsoft, 1998
- X Internet, Forrester Research, Oct 2000

RIA was introduced in a Macromedia
whitepaper in March 2002

RIA 기술의 종류 #1

- JavaScript
 - Ajax
- Adobe Flash and Apollo
 - Adobe
 - Flash, Flex, Flash Media Server, Flash Remoting, Central, Breeze
 - Others
 - Laszlo

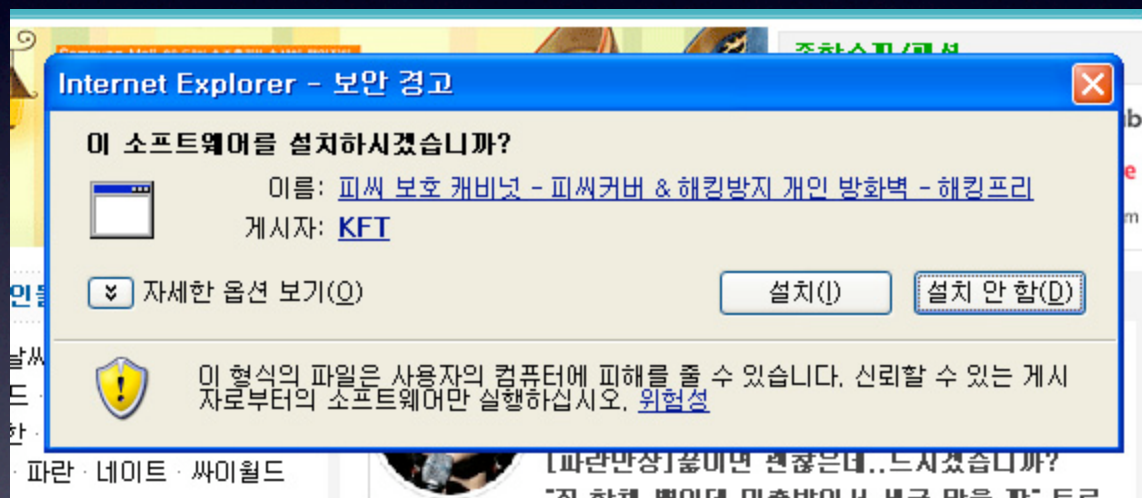
RIA 기술의 종류 #2

- Windows Presentation Foundation
 - .NET Framework 3.0
 - WPF/e
- Active-X Controls
- Java Applets, Java Applications
- User Interface Languages
 - XUL, SVG

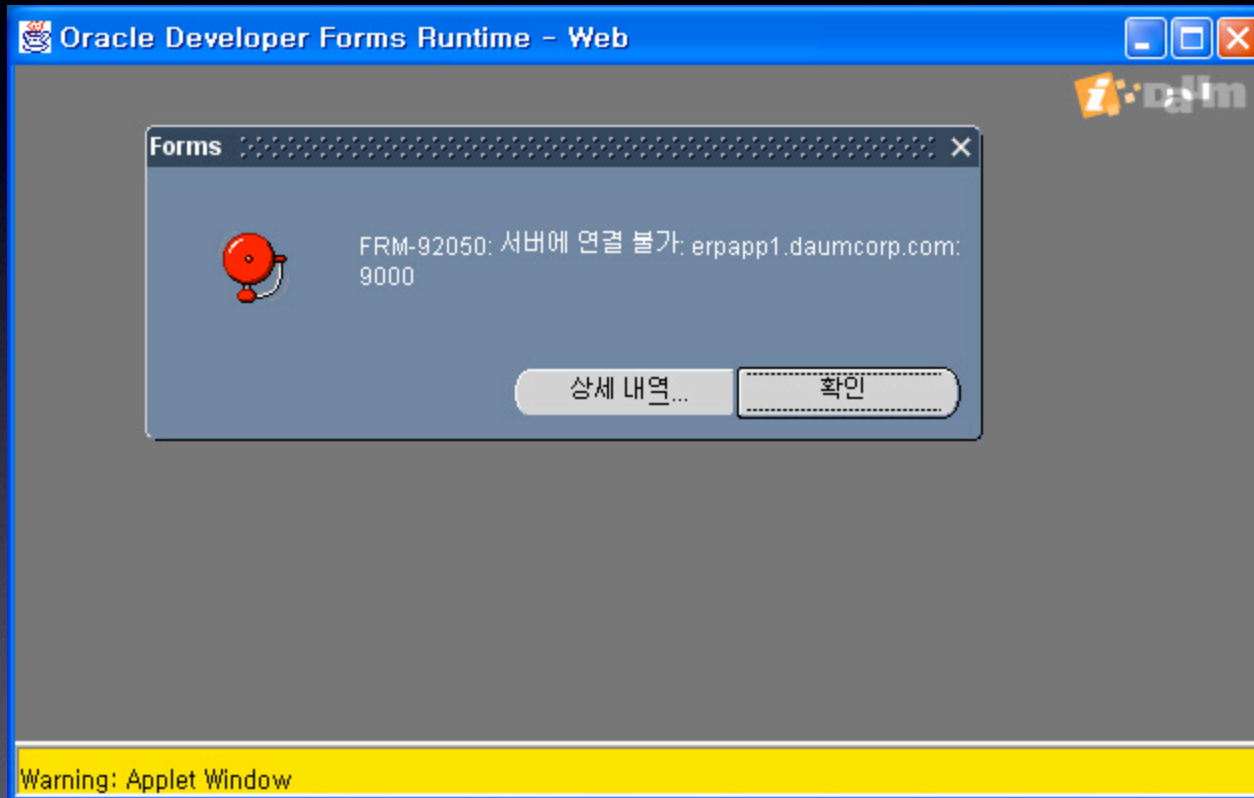
과거 - 현재 - 미래

과거 기술

Active-X Controls



Java Applet



미래 기술

User Interface Languages

- XUL
 - Mozilla Foundation's XML-based user interface markup language.
- XAML
 - XML-based language used to define objects and their properties, relationships and interactions used in .NET Framework 3.0
- SVG
 - XML markup language for describing two-dimensional vector graphics.

XUL

```
        goPreferences("securityItem", "chrome://cookie/content/pref-popup.xul", "popup");
    }

    function doHelpButton() {
        openHelp("pop_up_blocking");
        return true;
    }

    ]]>
</script>

<keyset id="dialogKeys"/>

<description id="popupDesc">&popupDesc.label;</description>
<description id="popupDescAlt">&popupDescAlt.label;</description>
<vbox align="center">
    <image id="popupImage"/>
</vbox>
<description>&popupNote1.label;</description>
<separator class="thin"/>
<description>&popupNote2.label;</description>
<spacer flex="1"/>
<hbox class="dialog-button-box" pack="center">
    <button dlgtype="accept" label="&acceptButton.label;"/>
    <button dlgtype="cancel" label="&cancelButton.label;"/>
    <button dlgtype="help"/>
</hbox>
</dialog>
```

SVG



GIMP



BITMAP

.jpeg .gif .png

INKSCAPE



OUTLINE

.svg

SVG vs. Flash

SVG 구현 데모

현재 기술

현재 기술

- Flash
 - Flash Video
 - Flex
- Ajax
 - Ruby on Rails
 - Google
- 부록: WPF, Apollo

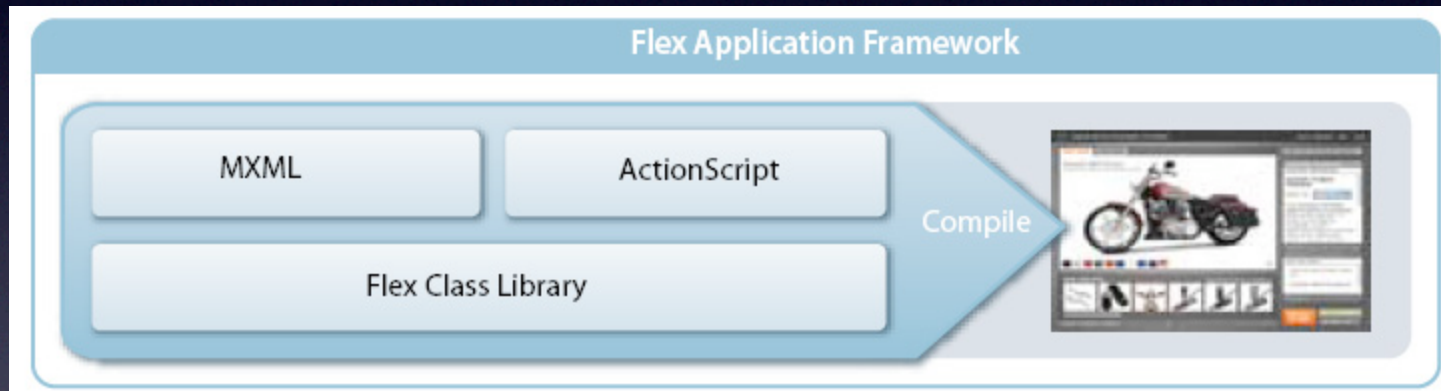
Flash Video(FLV)



Flash Video(FLV)



Flex



Flex

The screenshot displays the '빠른예매 | Ticketing' (Fast Booking | Ticketing) section of the CGV website. The interface is divided into three main columns for selection:

- 영화선택 (Movie Selection):** Lists various movies with their ratings. Visible titles include '(디지털)우아한 세계', '(디지털3D더빙)로빈슨 가리', '(IMAX DMR 2D)300', '(IMAX DMR 3D)(더빙)부고', '300', '고스트 라이더', '극락도 살인사건', '넘버 23', '눈부신 날에', '단편애니영화제07(매니아)', '단편애니영화제07(CG)', '동갑내기 과외하기 레슨2', and '드러건즈'.
- 극장선택 (Theater Selection):** Shows a list of theaters under the heading '선택극장:'. Theaters listed are CGV 명동, CGV 구로, CGV 목동, CGV 용산, CGV 상암, CGV 공학, CGV 불광, CGV 압구정, CGV 강남, CGV 미아, 인천/경기, and 대전/충청.
- 날짜/시간 (Date/Time):** Features a calendar for '2007년 4월' (April 2007). The selected date is the 15th. The calendar grid shows days 1 through 30, with the 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, and 28th highlighted in orange.

At the top of the page, there are navigation links for '영화 (movies)', '예매 (ticketing)', '극장정보 (CGV n fun)', '매거진 (magazine)', '이벤트 (event)', and '멤버십 (membership)'. On the right, there are fields for 'My CGV', '고객센터', '사이트맵', '검색', and 'CGV VIP'. Below these are input fields for 'ID' and 'PW', a '로그인' (Login) button, and links for '회원가입' (Sign Up) and '아이디/비번 찾기' (Find ID/Password).

Flex 구현 데모

Flash의 삭제

느리고 무겁다

Ajax

Ruby on Rails, Google

Google

- GMail을 통한 Ajax 대중화
- 최근 신규 서비스 대부분 Ajax 적용

Google

- GMail
- Google Suggest
- Google Maps
- Google Calendar
- Google Groups
- Google Docs & Spreadsheets

Google Web Toolkit



Google Web Toolkit (Beta)

[Google Code Home](#) > [Google Web Toolkit](#)

Google Web Toolkit

[Product Overview](#)

[Getting Started Guide](#)

[Download SDK](#)

[Developer Guide](#)

[Example Projects](#)

[GWT Class Reference](#)

[JRE Emulation Library](#)

[Web Toolkit FAQ](#)

[Web Toolkit Blog](#)

[Third Party Tools](#)

[Issue Tracking](#)

[Developer Forum](#)

Search this site:

Search

Google Web Toolkit - Build AJAX apps in the Java language

[Download Google Web Toolkit \(GWT\)](#)

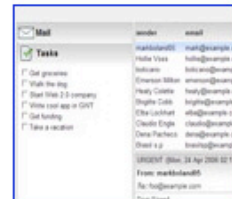
New! [Mac OS X support and faster debugging](#)

Google Web Toolkit (GWT) is a Java software development framework that makes writing AJAX applications like [Google Maps](#) and [Gmail](#) easy for developers who don't speak browser quirks as a second language. Writing dynamic web applications today is a tedious and error-prone process; you spend 90% of your time working around subtle incompatibilities between web browsers and platforms, and JavaScript's lack of modularity makes sharing, testing, and reusing AJAX components difficult and fragile.

GWT lets you avoid many of these headaches while offering your users the same dynamic, standards-compliant experience. You write your front end in the [Java](#) programming language, and the GWT compiler converts your Java classes to browser-compliant JavaScript and HTML.

[Learn more »](#)

Featured Example Projects

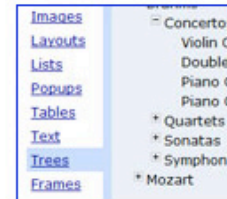


[Desktop App Clone](#)

A replica of the UI of a desktop email application.

GWT features used:

[UI widgets](#)
[History management](#)



[Kitchen Sink](#)

An application that includes every UI widget GWT supports.

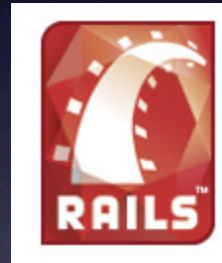
GWT features used:

[UI widgets](#)
[History management](#)

자바 스크립트를 모르는 서버 개발자가 자바 언어
를 사용해 Ajax를 구현할 수 있다.

Google Web Toolkit

Ruby on Rails



Ruby on Rails



Web development that doesn't hurt

Ruby on Rails™ is an open-source web framework that's optimized for programmer happiness and sustainable productivity. It lets you write beautiful code by favoring convention over configuration.

David Heinemeier Hansson이 만든 ruby로 구현
한 웹 어플리케이션 프레임워크

Ruby on Rails

2006년 졸트상 수상



PHP: Quick and Dirty
Java: Slow and Clean

Ruby on Rails

Quick and Clean

Don't Repeat Yourself (DRY)
Convention over Configuration

Ruby on Rails

Ruby on Rails



Show, don't tell: Seeing is believing

Lean back and enjoy the shows, but be careful: Going back to your former treadmill after being exposed to these movies can prove exceedingly painful. Don't say we didn't try to warn you.

```
def create
  @post = Post.new(params[:post])
  if @post.save
    flash[:notice] = 'Post was successfully
    redirect_to :action => 'list'
  else
    render :action => 'new'
  end
end

def edit
  @post = Post.find(params[:id])
end

def update
  @post = Post.find(params[:id])
  if @post.update_attributes(params[:post])
```

[Creating a weblog in 15 minutes](#)

Creating a weblog in 15 minutes

In 15 minutes, we go from scratch to complete weblog engine: with comments and an administrative interface. But since the actual application only took 58 lines to complete, we also have time left over to do unit testing, examine the logs, and play around with the domain model.

Campfire

Each chat room you're in has a tab for easy movement between rooms.

Upload an image and Campfire displays it inline for everyone.

Your entries are highlighted in yellow for easy scanning.

Just type and hit return to chat.

Each room has a name and a topic which can be changed.

A list of all people in the room. People who are idle are grayed out.

Turn on guest access so non-members can join in. Great for quick temporary chats.

Upload and share files with other people in the room.

Ruby on Rails

Sortables 구현 데모

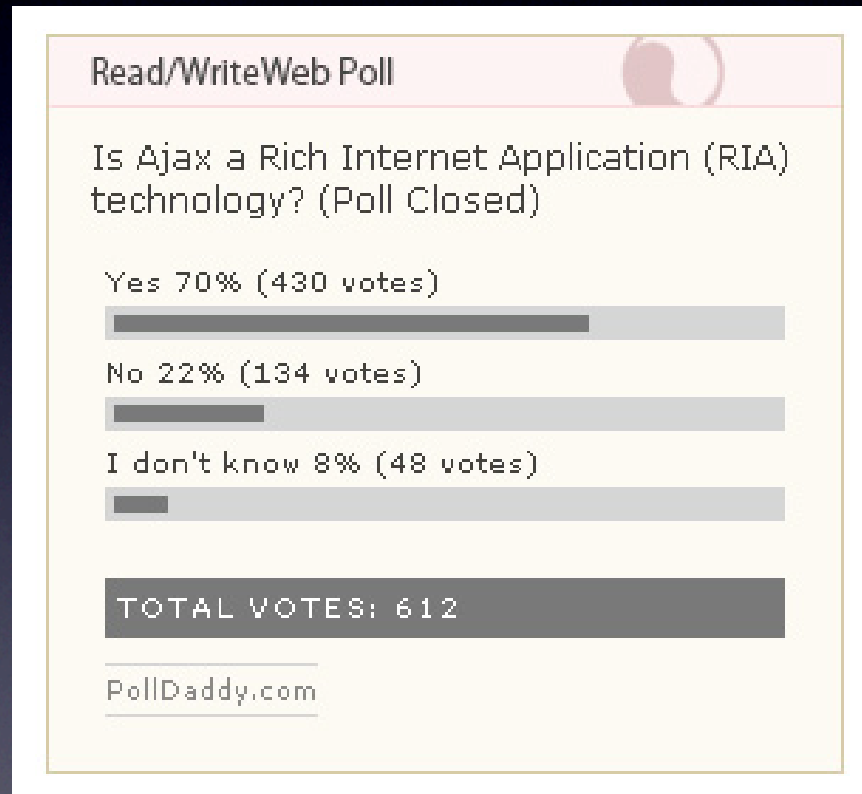
그외 Ajax Frameworks

- Rico
- Yahoo! UI Library (YUI)
- 이외에도 90개가 넘는 프레임워크

질문

Is Ajax RIA?

투표 결과



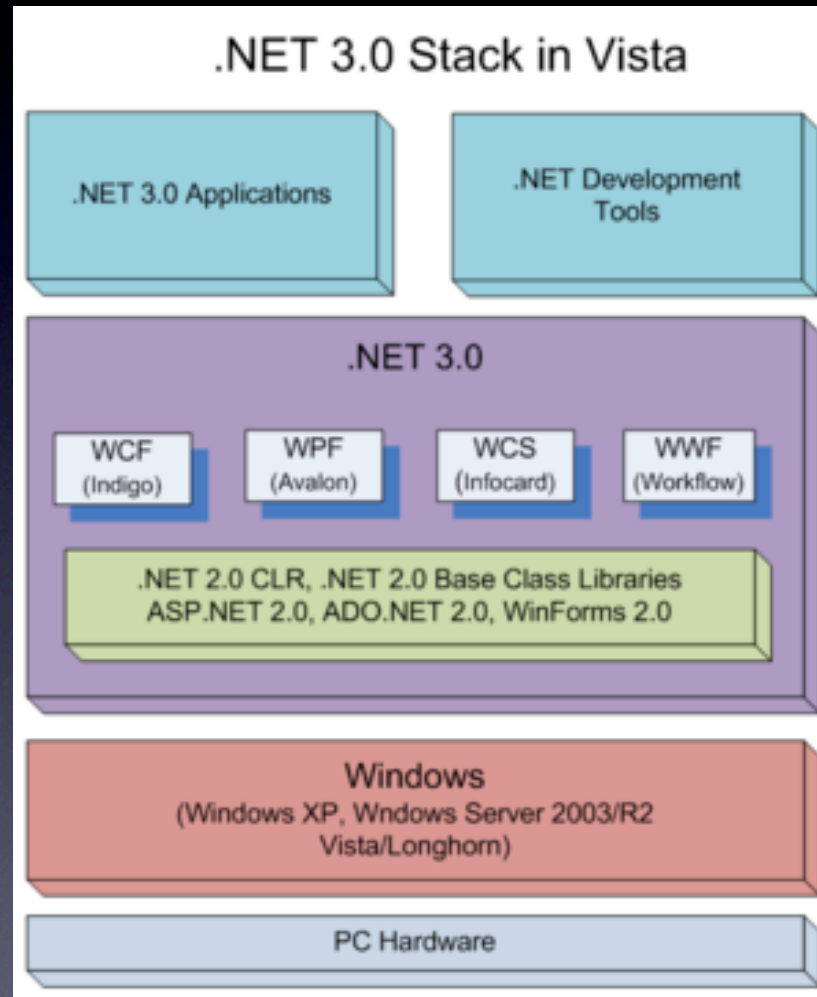
The role of the desktop in Rich Internet Applications

Ryan Stewart는 반대

부록: RIA 시대의 데스크탑 어플리케이션

WPF, Apollo

WPF



WPF 설치?

윈도우 비스타에 포함

WPF/e

everywhere

WPF/e 데모

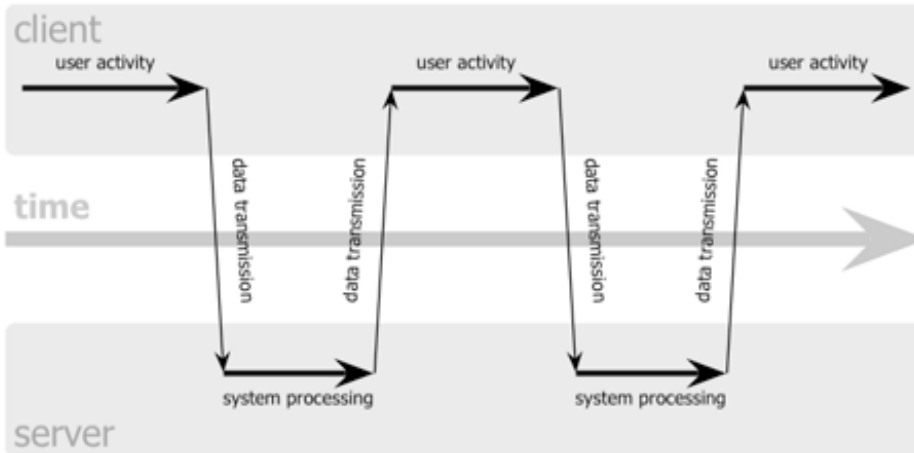
Adobe Apollo

인기 RIA 기술의 추세

- XML
- ECMAScript
 - Dialects: JavaScript, ActionScript
- Asynchronous
- 통합개발환경(IDE)
- ... and more?

비동기 통신

classic web application model (synchronous)



Ajax web application model (asynchronous)

