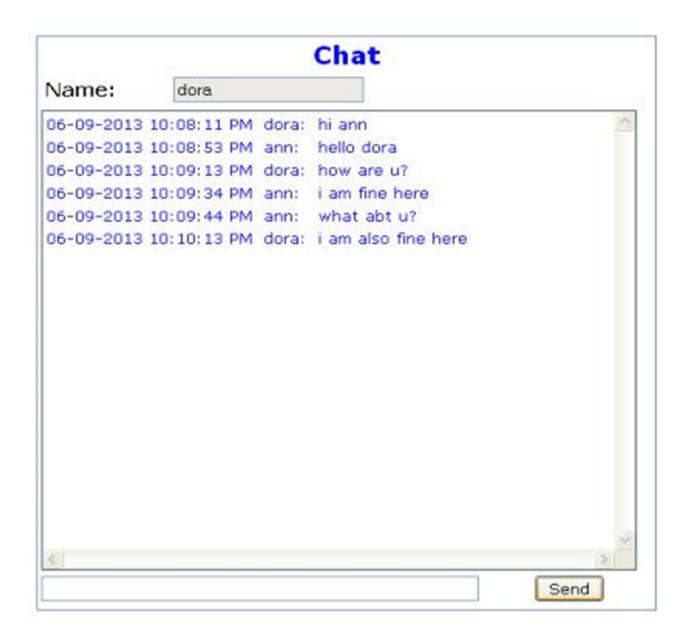
## Chat System, RIA, Ruby

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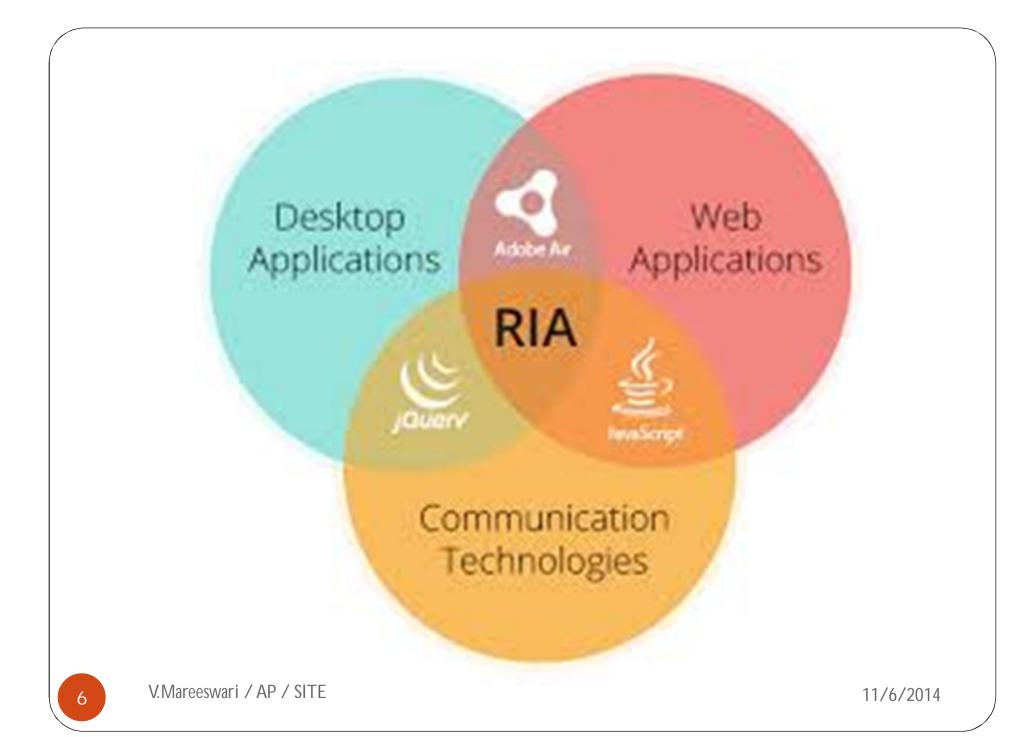
#### What is RIA Development?

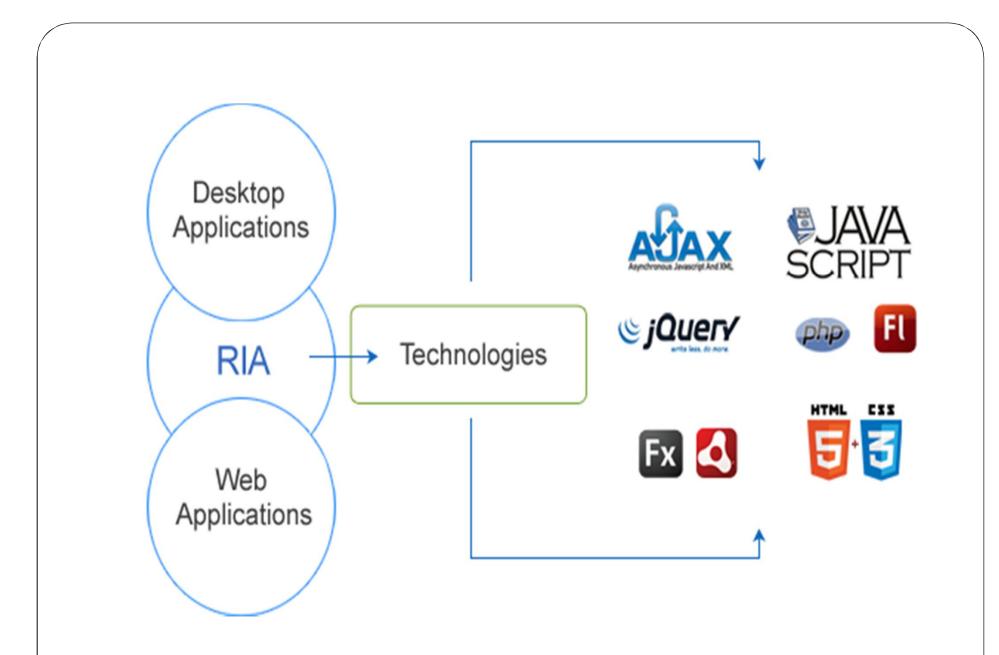
- Rich Internet Applications become extremely popular nowadays in comparison to old school internet applications due to smooth user experience.
- RIAs are cross-browser, cross-platform and they almost comparable to features and functionalities of a desktop application.
- RIAs, according to Adobe definition, are applications that combine improved user interface and functionality of desktop software, accessibility and low-cost deployment of Web-based applications and the best of interactive, multimedia communication.

 Rich Internet application (RIA) is basically a web application designed to acclimatize and deliver function usually associated with desktop applications. The main feature of RIA is that it does not need a software installation and runs solely on a web browser. The code behind the RIA is devised in a way to identify and adjust accordingly. However, few RIA's work properly only on specific web browsers.

# Advantages of RIA Development over Traditional Desktop and Web Applications

- Offers rich and engaging viewing experience
- Improves user satisfaction and increases productivity
- RIAs run in a web browser so they do not require software installation
- Better user experience means loyal customers and long term profits.





### Ruby

- Ruby is a language of careful balance. Its creator, <u>Yukihiro "Matz" Matsumoto</u>, blended parts of his favourite languages (Perl, Smalltalk, Eiffel, Ada, and Lisp) to form a new language that balanced functional programming with imperative programming.
- A dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write.

### C++ and equivalent code in Ruby

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5   cout << "Hello, world!" << endl;
6   return 0;
7 }</pre>
```

```
1 puts "Hello, world!"
```

#### **Ruby on Rails**

- Ruby is a language.
- Ruby on Rails is a framework that uses and depends on the Ruby programming language.
- Think of a framework as a collection of pre-written code to help programmers. In this case, the Rails framework is a collection of pre-written code to help programmers make websites and web applications (Twitter, Yellow Pages,..).

#### **TIOBE Index for October 2014**

- TIOBE Software Quality Company
- Popular search engines such as Google, Bing, Yahoo!, Wikipedia, Amazon, YouTube and Baidu are used to calculate the ratings. It is important to note that the TIOBE index is not about the *best* programming language or the language in which *most lines of code* have been written.

Oct 201	4 Oct 2013	Programming Language	
1	1	$C \rightarrow$ first position from 1989	
2	2	Java	
3	3	Objective-C	
4	4	C++	
5	6	C#	
6	7	Basic	
7	5	PHP	
8	8	Python	
9	12	Perl	
10	9	Transact-SQL	
11	17	Delphi/Object Pascal	
12	10	JavaScript	
13	11	Visual Basic .NET	
14	-	Visual Basic	
15	21	R	
16	13	Ruby	
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18	24	F#	