

Ruby on What?

A brief introduction to Rails

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Ruby on Rails

- Overview
 - What is Ruby? What is Rails?
 - Who's backing it?
- Dema 1
 - Simple seminar application
- Haw daes it work?
- Dema 2
 - Customised seminar application





- Created by Yukihiro "matz" Matsumoto
- Dual GPL / Ruby licence
- Dynamic, reflective, object-oriented scripting language





- Open-source (MIT) web framework
- By David Heinemeier Hansson (37signals)
- Rails Mantra
 - Opinionated Software
 - Convention over Configuration
 - DRY (Don't Repeat Yourself)

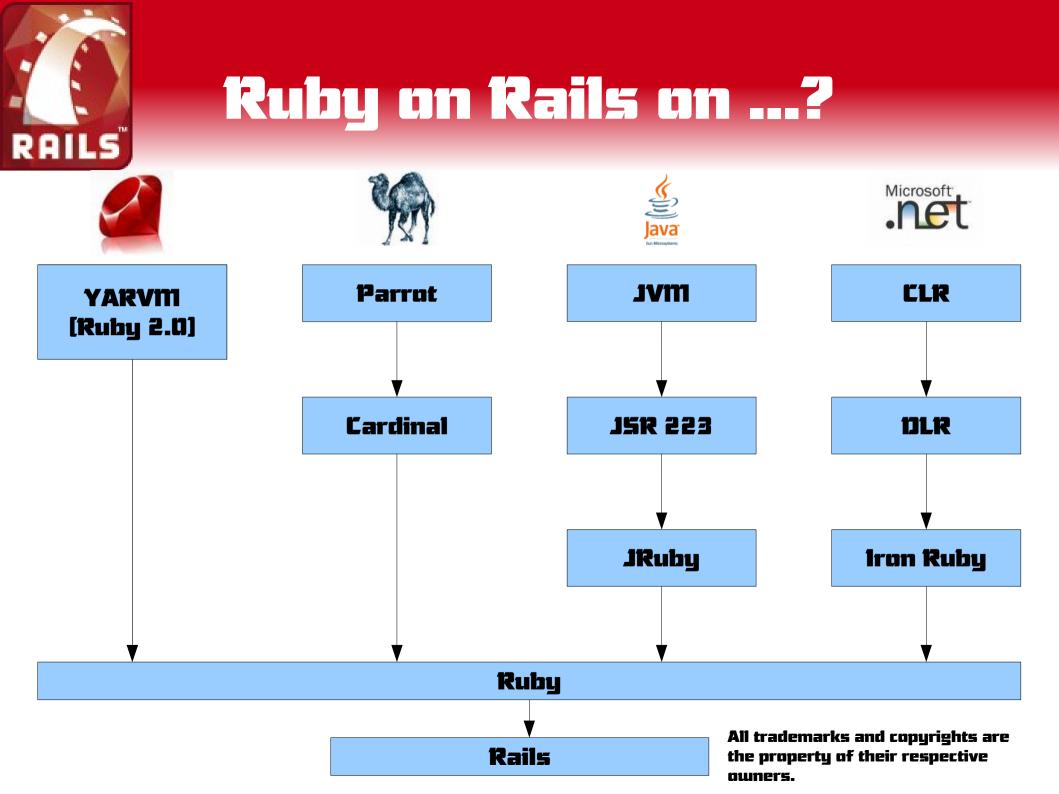


Who's using it?

- 37signals
 - (Basecamp, Highrise, Campfire, Backpack)
- Joyant
 - (Husting, Collaboration, Slingshot)
- Relevance
 - (Training, Consultancy, Streamlined)
- Active Reload
 - (Lighthouse, Mephisto)

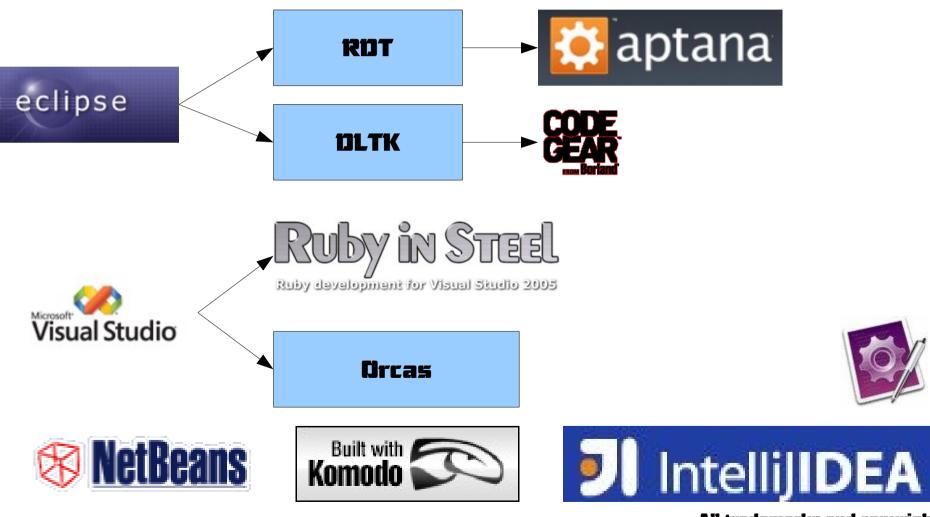


- The **BBC**
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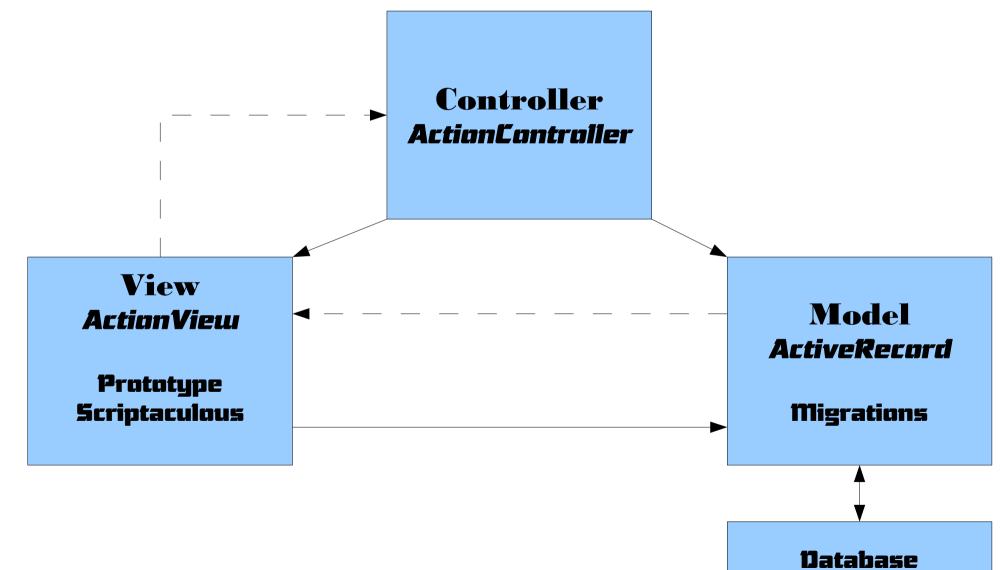
Vendar Taals



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Databases

- MySql (default)
- PastgreSQL
- SQLite
- Microsoft SQL Server
 - Native on Windows, via FreeTDS on *nix
- 1811 DB5
- Oracle
- Several others

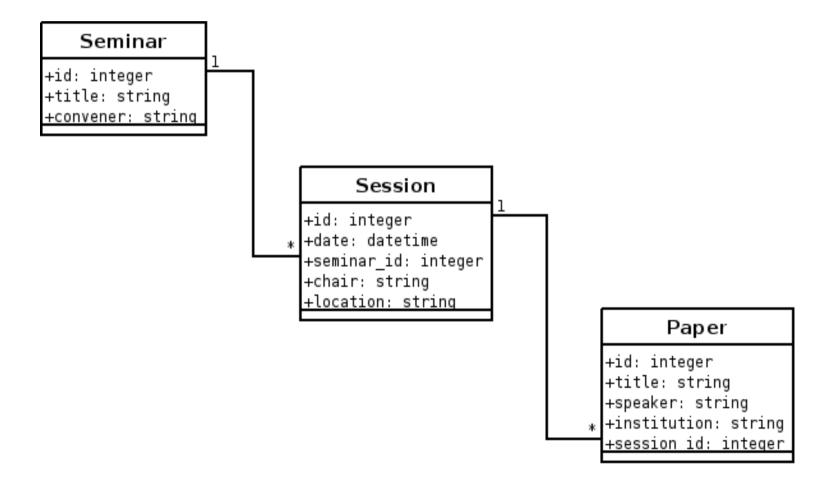


Dema 1 - Aims

- Create a new rails project seminars
- Set up madels, controllers
- Set up database with migrations
- Install and use Active_Scaffold plugin



Seminar – Class Diagram





What did we do?

- Rails created initial application
- We defined tables with migrations
- We set up the madel
 - joins specified with has_many & belongs_to
 - DRY: No need to specify the fields
- Active Scaffold provided controller & view



has_many ... belongs_to

- Seminar has_many :sessions e.g.
 - sem.sessions.create(:date => '2007-06-21')
 - next = sem.sessions.find[:first, :conditions
 => ["date > ?", today]]
- Session belongs_to :seminar e.g.
 - sem_title = sess.seminar.title
 - sess.seminar = sem;



has_many :sessions

- Configuration over convention
 - assumes foreign key in seminar_id in session table
- Can be customised
 - has_many :sessions, :order => :date, :dependent => :delete_all
- Or write your own
 - has_many :sessions, :finder_sql => 'select
 date from sessions where seminar_id=#{id}



Dema 2 - Aims

- Session view with paper panel
 - Simple custam view
 - Simple demonstration of use of AJAX
- Order papers in session
 - Drag and drop papers in browser
 - Still very simple



Integration Database

