

# In this lecture, we will discuss...

- ✧ Brief Rails history
- ✧ Benefits of using Rails
- ✧ Model View Controller

# History - Ruby on Rails (RoR)

- ✧ Framework for making **dynamic web applications**
- ✧ Created in 2004 - 2005 by David Heinemeier Hansson



# Who is Using Rails?

**hulu**™

**twitter** 

 **GitHub**



livingsocial 

**GROUPON**®

**white  
pages**

# Why Use Rails?

## ✧ Convention Over Configuration (COC)

- Less code to write
  - Some code Rails automatically generates for you
  - Oftentimes, there is no need to write code at all
- Learn it once - know what to expect the next time

# Why Use Rails?

- ✧ Database Abstraction Layer
  - No need to deal with low-level DB details
  - No more SQL (*Almost*)
  - Important to understand the SQL generated!

# Why Use Rails?

- ✧ Agile-friendly
- ✧ **Don't Repeat Yourself (DRY) principle**
- ✧ Cross-platform
- ✧ Open Source
- ✧ Modular



# SQLite

- ✧ Rails uses SQLite for database by default
  - Self-contained, serverless, zero-configuration, transactional, relational SQL database engine.



**CLAIM:** Most widely deployed SQL database engine in the world



# MVC: Model View Controller

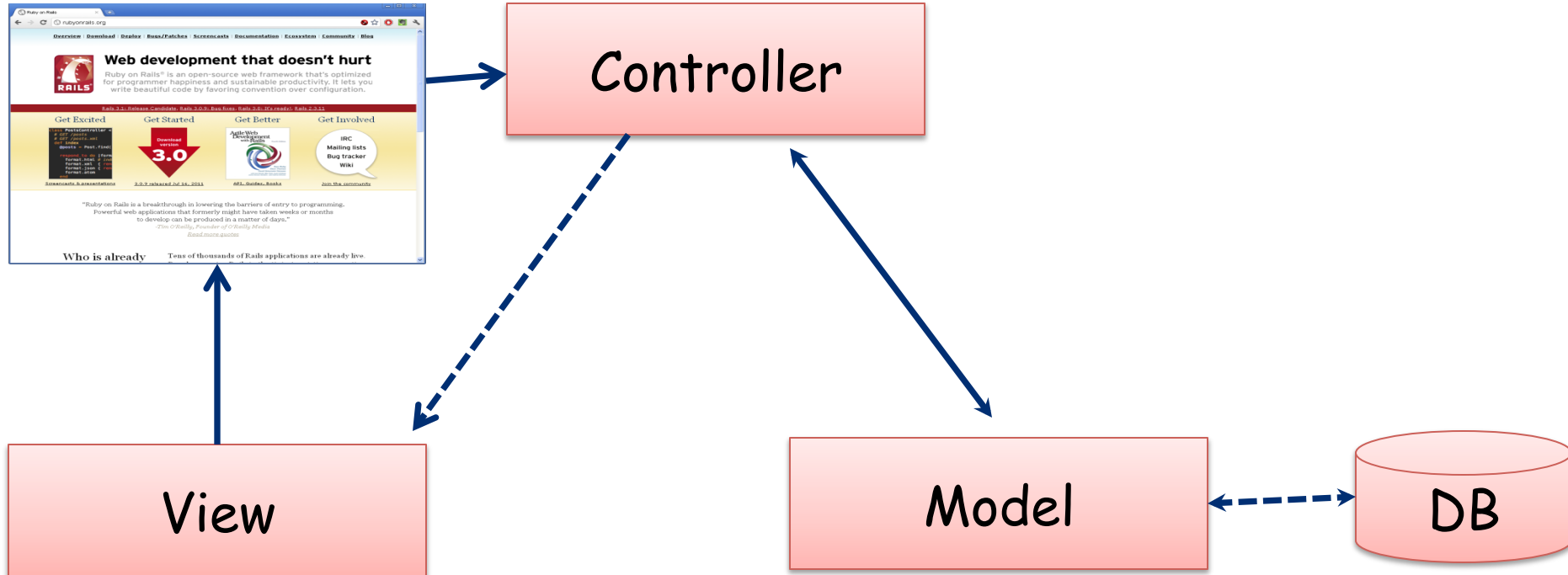


- ✧ Invented in 1979 by Trygve Reenskaug
- ✧ Well-established software pattern used by many web and desktop frameworks
- ✧ **Model** - represents the data the application is working with (and possibly business logic)
- ✧ **View** – (visual) representation of that data
- ✧ **Controller** - orchestrates interaction between the model and the view



# MVC Cycle

1. Request sent
2. Controller  $\leftrightarrow$  Model
3. Controller invokes View
4. View renders data



# Summary

- ✧ Rails is very good for **Rapid Prototyping**
- ✧ MVC and Convention over Configuration enable you to **“think less and do more”**

## What's Next

- ✧ Creating your first Rails app

