


Crystal on Amber

Somsak (Thumb)

Growth Session #16 - July 12-13 2018

Amber is a web framework written in Crystal language, which is inspired by Ruby on Rails and other frameworks

 [amberframework / amber](#)

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Insights

A Crystal web framework that makes building applications fast, simple, and enjoyable. Get started with quick prototyping, less bugs, and blazing fast performance. <https://amberframework.org>

crystal

web

cohesive

efficient

fast

framework

amber

amber-framework

scaffolding

cli

web-framework

1,037 commits

15 branches

31 releases

57 contributors

MIT

Branch: master


New pull request

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 **kolyaio** and **robacarp** Fixed incompatibility with the new version of crystal (#910) ...

Latest commit c46adce 3 days ago



Why Amber ?

- Familiar with Ruby
- Beauty like Ruby
- Faster than Go
- Blazing fast performance

Fortunes

Best (bar chart)

Data table

Latency

Framework overhead

Best fortunes responses per second, Dell R440 Xeon Gold + 10 GbE (7 tests)

Rnk	Framework	Best performance (higher is better)	Cls	Lng	Plt	FE	Aos	DB	Dos	Orm	IA	Errors
1	amber	84,328 100.0% (19.9%)	Ful	Cry	Non	Non	Lin	Pg	Lin	Ful	Rea	166
2	kemal	83,285 98.8% (19.6%)	Ful	Cry	Non	Non	Lin	Pg	Lin	Mcr	Rea	321
3	phoenix	51,740 61.4% (12.2%)	Ful	Eli	Cow	Non	Lin	Pg	Lin	Ful	Rea	0
4	rails	7,931 9.4% (1.9%)	Ful	Rby	Rac	Pum	Lin	My	Lin	Ful	Rea	0
5	rails-unicorn	7,850 9.3% (1.8%)	Ful	Rby	Rac	Uni	Lin	My	Lin	Ful	Rea	0
6	hanami	0 0.0% (0.0%)	Ful	Rby	Rac	Pum	Lin	My	Lin	Ful	Rea	90,025
7	hanami-unicorn	0 0.0% (0.0%)	Ful	Rby	Rac	Uni	Lin	My	Lin	Ful	Rea	61,936

Controller Layer

```
1 class UsersController < ApplicationController
2   def index
3     @users = Users.all
4     render("index.slang")
5   end
6 end
```



View Layer

```
1 # Slang - /views/users/index.slang
2
3 doctype html
4 html
5   head
6     meta name="viewport" content="width=device-width,initial-scale=1.0"
7     title This is a title
8     css:
9       h1 {color: red;}
10      p {color: green;}
11      style h2 {color: blue;}
12   body
13     ul
14       - @users.each do |user|
15         li = "#{user.name} - #{user.email}"
```



Model Layer

```
1 class User
2   getter name : String
3   getter email : String
4
5   def initialize(@name, @email)
6   end
7 end
```



- Pros

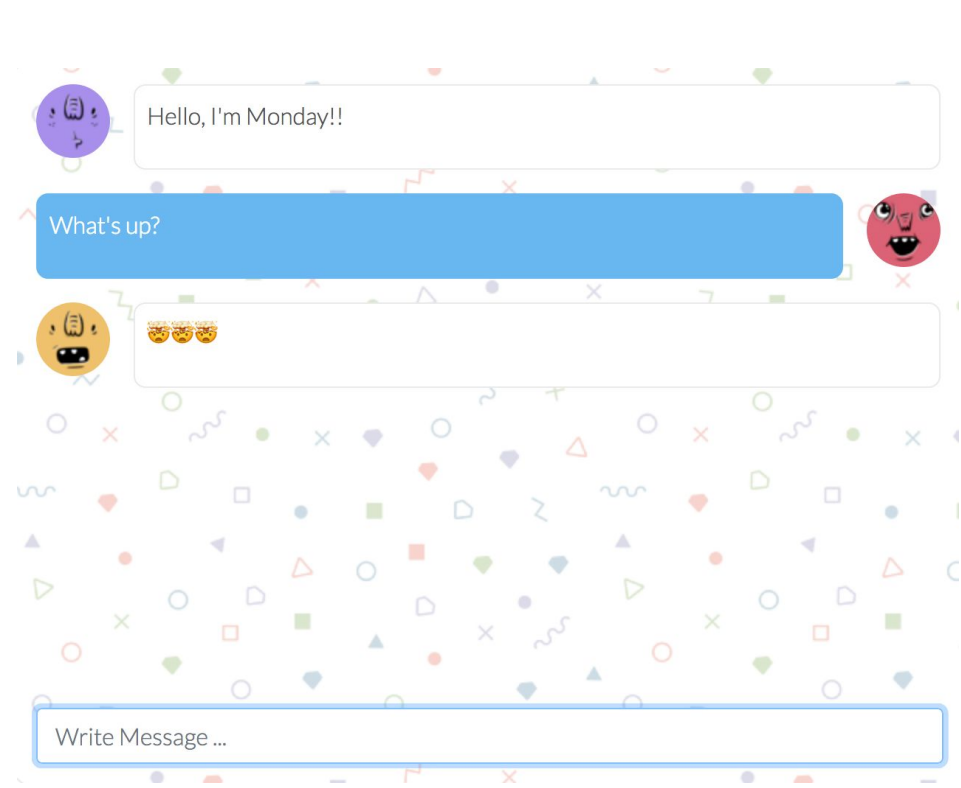
- Good community and documentation
- Pretty fast
- Low learning curve for RoR developers
- Build in CLI tool

- Cons

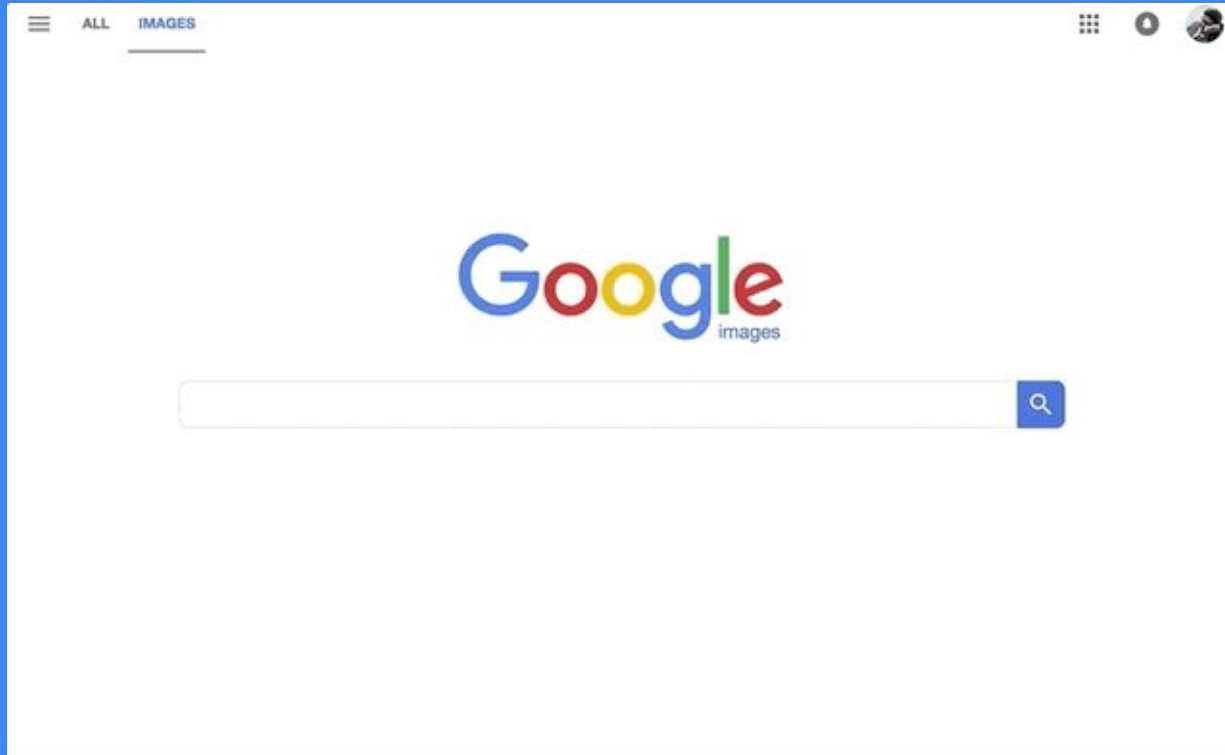
- A bit slow when updating the code in development mode
- No Gems
- No great IDE like RubyMine
- Controller tests, Integration tests and Model testing are still work in progress...

Project Achievement

- User Authentication
- Real-time chat



Thanks!



Thanks!

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