

Tynn

A thin library for web development

- Simple API
- Unopinionated
- Extensible
- Fast

```
require "tynn"
```

```
Tynn.define do  
  root do  
    res.write("Hei Oslo!")  
  end  
end
```

```
# / => "Hei Oslo"
```

Matchers

```
on "posts" do
  get do
    res.write("GET /posts")
  end

  post do
    res.write("POST /posts")
  end
end

# GET /posts => "GET /posts"
# POST /posts => "POST /posts"
```

Segment

```
on :slug do |slug|  
  get do  
    res.write("GET /#{ slug }")  
  end  
end
```

```
# GET /foo => "GET /foo"  
# GET /bar => "GET /bar"
```

Not only paths or methods


```
on (current_user != nil) do
  # authenticated routes
end
```

```
on resource.nil? do
  res.write("404")
end
```

Routing tree

```
[  
  /users  
  /users/:id  
  /users/:id/sessions  
  /users/:id/sessions/:token  
  /articles  
  /articles/:id  
]
```

```
[  
  /users  
    -> :id  
      -> /sessions  
        -> :token  
  /articles  
    -> :id  
]
```

Composition

```
class Users < Tynn  
end
```

```
Users.define do  
  get do  
    # ...  
  end  
end
```

```
Tynn.define do  
  on "users" do  
    run(Users)  
  end  
end
```

Default extensions

- Tynn::Environment
- Tynn::JSON
- Tynn::NotFound
- Tynn::Protection
- Tynn::Render
- Tynn::SecureHeaders
- Tynn::Session
- Tynn::SSL
- Tynn::Static
- Tynn::Test

Comparison

Sinatra

```
get "/articles" do
  Article.all.to_json
end
```

```
post "/articles" do
  Article.create(params[:article])

  status(201)
end
```

Tynn

```
on "articles" do
  get do
    json(Article.all)
  end

  post do
    Article.create(req[:article])

    res.status = 201
  end
end
```

```
get "/articles/:id" do
  article = Article[params[:id]]
  return status(404) unless article
  article.to_json
end
```

```
put "/articles/:id" do
  article = Article[params[:id]]
  return status(404) unless article
  article.update(params[:article])
  article.to_json
end
```

```
delete "/articles/:id" do
  article = Article[params[:id]]
  return status 404 unless article
  article.delete
  status 204
end
```

Sinatra

```
on "articles" do
  on :id do |id|
    article = Article[id]

    on article.nil? do
      res.status = 404
    end

    get do
      json(article)
    end

    put do
      article.update(req[:article])
      json(article)
    end

    delete do
      article.delete
      res.status = 204
    end
  end
end
end
```

Tynn

Numbers

Library	LOC
=====	
Core:	50
Syro:	166
Seg:	51

	267
Extensions:	259

	526

Framework	Requests/sec	% from best
=====		
Rack	10164.77	100.00%
Tynn	9739.69	95.82%
Cuba	8714.49	85.73%
Lotus (*)	8535.46	83.97%
Rails (**)	3175.91	31.24%
Sinatra (***)	2890.16	28.43%

(*) Lotus Router

(**) Without middlewares, ActionController::Metal

(***) Without middlewares.

<https://gist.github.com/frodsan/4cf2b3beab1dee39e2b0>

1.0.0.rc2

github.com/frodsan/tynn

Future

- More documentation
- More benchmarks
- Extensions
- Security defaults

More at:

tynn.xyz

tynn.xyz/support.html

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