

Code With Purpose

@tomprats

github.com/tomprats

www.tomify.me

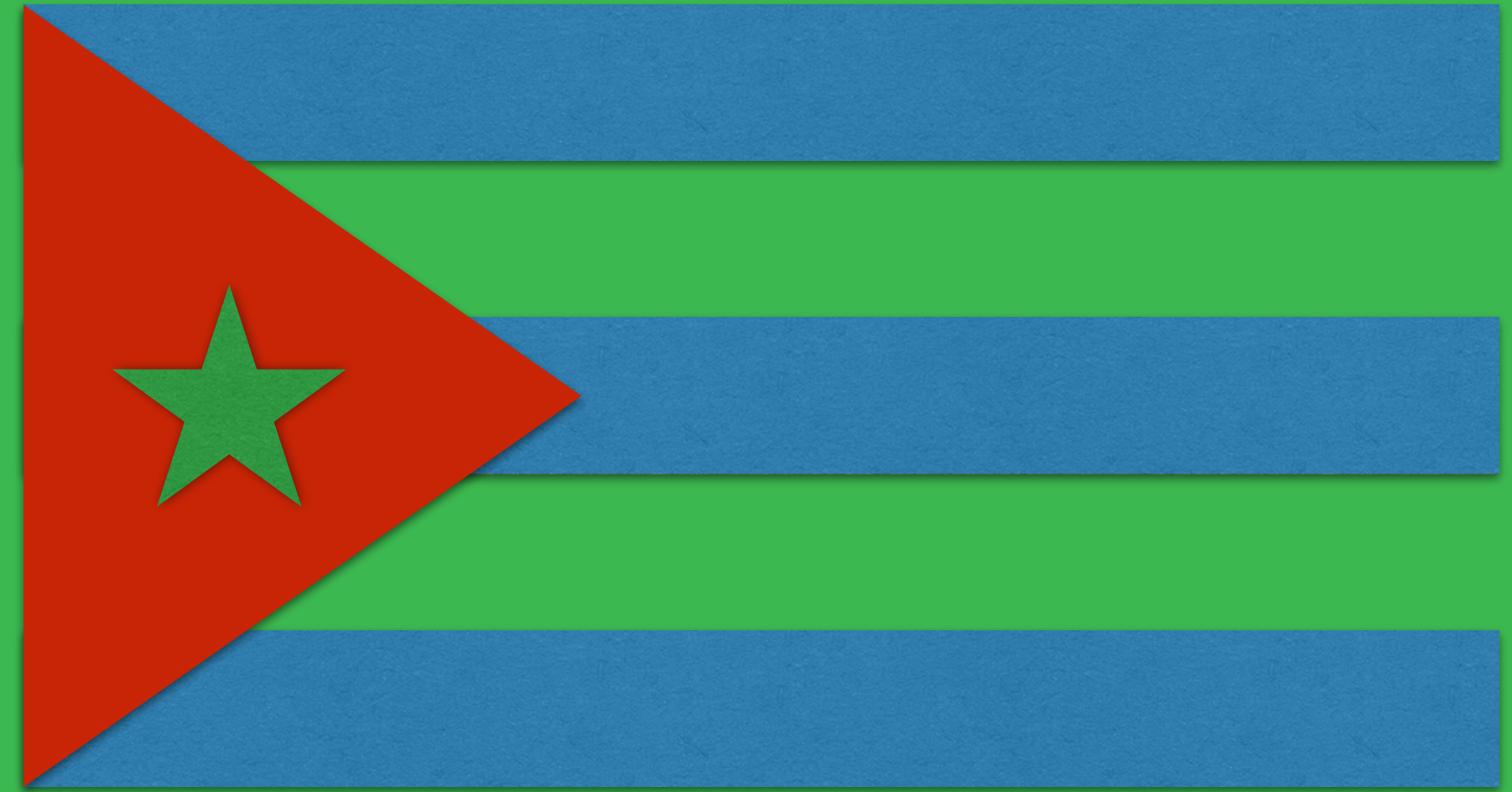
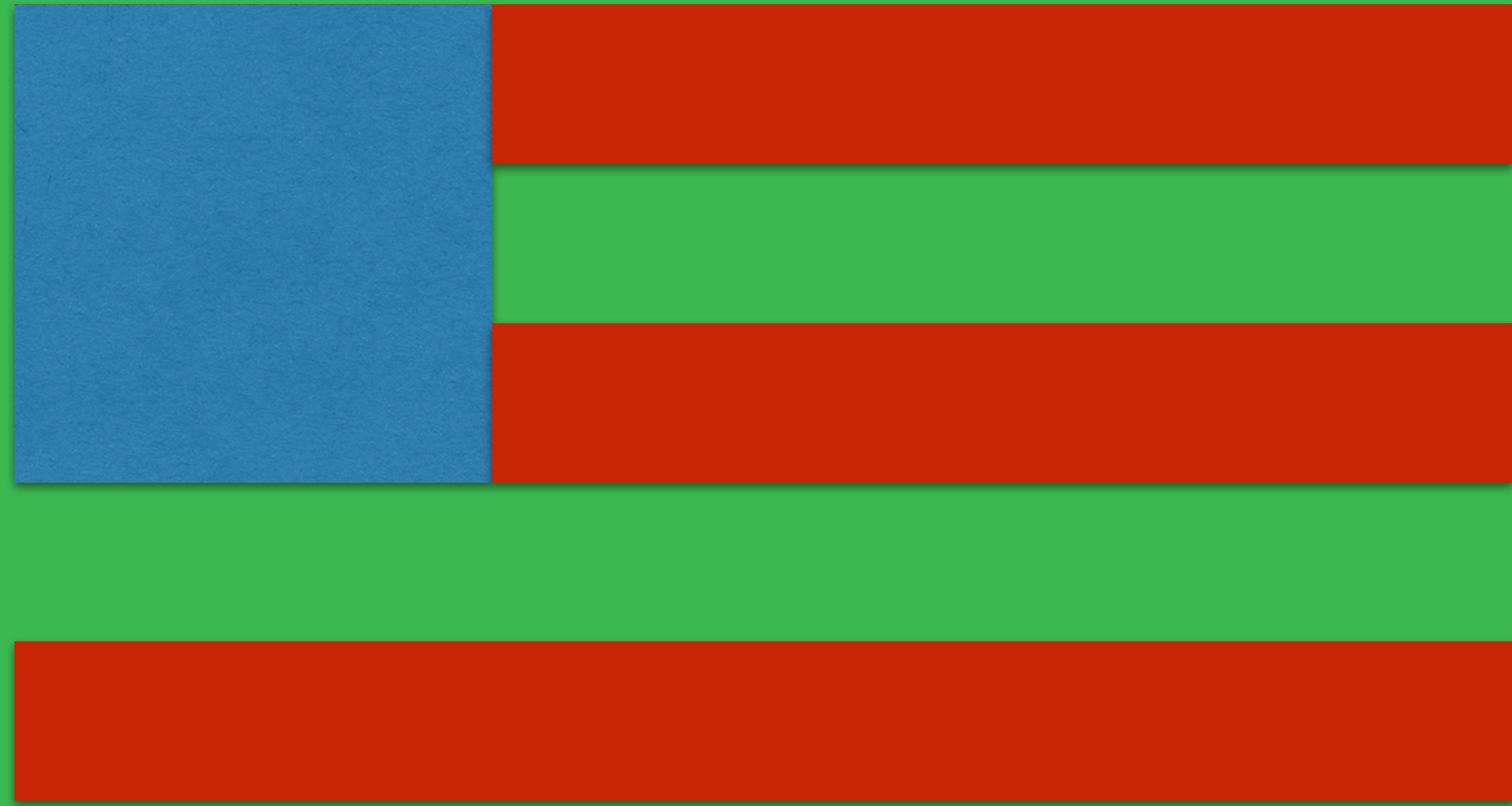
Tom Prats

Developer Extraordinaire

@tomprats

github.com/tomprats

www.tomify.me



traitify



Tomify.me

@tomprats

github.com/tomprats

www.tomify.me



@tomprats

github.com/tomprats

www.tomify.me



@tomprats



github.com/tomprats



www.tomify.me



@tomprats



github.com/tomprats



www.tomify.me

Code With Purpose

@tomprats

github.com/tomprats

www.tomify.me

Why?

How?

What?

Why?

@tomprats

github.com/tomprats

www.tomify.me

Why do you code?

@tomprats

github.com/tomprats

www.tomify.me









Do you do what you love?

@tomprats

github.com/tomprats

www.tomify.me

Why I code

@tomprats

github.com/tomprats

www.tomify.me

He said to them, "Go into all the world and preach
the good news to all creation."

- Mark 16:15

How?

@tomprats

github.com/tomprats

www.tomify.me

Teach

@tomprats

github.com/tomprats

www.tomify.me

Do

@tomprats

github.com/tomprats

www.tomify.me

Open Source

- RapidFTR
- SocialCoding4Good

imgur

facebook

API Toolbox

twitter 

stripe

@tomprats

github.com/tomprats

www.tomify.me

GitHub



traotify

@tomprats

github.com/tomprats

www.tomify.me

Creating an API

@tomprats

github.com/tomprats

www.tomify.me

Personify

Your Public Profile

- Single Sign On
- Advertising Profile
- Demographic Search
- Unified Public Profile
- Privacy and Control
- Personal Alerts

@tomprats

github.com/tomprats

www.tomify.me

Models

Applications

- Public Key
- Private Key
- Approved
- Name

Users

- Email
- Name
- Authentications
- Data

Authentications

- UID
- Token

Data

- Approved
- Origin
- Data

Models

Users

- Email
- Name
- Birthday
- Favorite Color

Models

```
create_table :users do |t|
  t.string :email
  t.string :name
  t.datetime :birthday
  t.string :favorite_color

  t.timestamps
end
```

Authentication

aBcxYz123idk = Base64 Encode “public:secret”

Authorization: Basic aBcxYz123idk

Authentication

```
http_basic_authenticate_with name: "tomify", password: "secret"
```

HTTP Basic: Access denied.

Endpoints

/users

/users/:id

Params	Examples
Pagination	?page=3
Limit	?limit=4
	?page=3&limit=4
Search	?name=tom
	?email=tomprats

Params	Examples
Extra Fields	?data=age
	?data=favorite_color

@tomprats

github.com/tomprats

www.tomify.me

Endpoints

```
def index
  @users = search_users
  @users = @users.page(params[:page]) if params[:page]
  @users = @users.per(params[:limit]) if params[:limit]

  render json: @users, extra_attributes: params[:data]
end

def search_users
  users = User.all

  user_attributes.each do |attr|
    users = users.where("%s ILIKE %s", attr, "$${params[attr]}%$$") if params[attr]
  end

  users
end

def user_attributes
  [:email, :name, :birthday, :favorite_color]
end
```


Endpoints

```
def show
  @user = User.find(params[:id])

  render json: @user, extra_attributes: params[:data]
end
```

Endpoints

```
curl -u tomify:secret localhost:3000/users?data=age
```

```
[{  
  "id": 1,  
  "email": "tom@tomprats.com",  
  "name": "Tom Prats",  
  "birthday": "1990-11-01T00:00:00.000Z",  
  "age": 25  
}]
```

Consuming an API

@tomprats

github.com/tomprats

www.tomify.me

Personify Gem

```
require "http"
require "hashie"

class Personify
  def initialize(public_key, private_key, base_url = "")
    @base_url = base_url

    @client = HTTP
      .basic_auth(user: public_key, pass: private_key)
      .headers(accept: :json, content_type: :json)
  end

  def get(path, params = nil)
    objectify @client.get("#{@base_url}#{path}", params: params).parse
  end

  private
  def objectify(hash)
    Hashie::Mash.new hash
  end
end
```

Basics

```
require "http"

class Personify
  def initialize(base_url = "")
    @base_url = base_url

    @client = HTTP
      .headers(accept: :json, content_type: :json)
  end

  def get(path)
    @client.get("#{@base_url}#{path}")
  end
end
```

```
personify = Personify.new("http://localhost:3000")
personify.get("/users")
```

Authentication

```
require "http"

class Personify
  def initialize(public_key, private_key, base_url = "")
    @base_url = base_url

    @client = HTTP
      .basic_auth(user: public_key, pass: private_key)
      .headers(accept: :json, content_type: :json)
  end

  def get(path)
    @client.get("#{@base_url}#{path}")
  end
end
```

```
personify = Personify.new(
  "tomify", "secret",
  "http://localhost:3000"
)
personify.get("/users")
```

Parameters

```
require "http"

class Personify
  def initialize(public_key, private_key, base_url = "")
    @base_url = base_url

    @client = HTTP
      .basic_auth(user: public_key, pass: private_key)
      .headers(accept: :json, content_type: :json)
  end

  def get(path, params = nil)
    @client.get("#{@base_url}#{path}", params: params)
  end
end
```

```
personify = Personify.new(
  "tomify", "secret",
  "http://localhost:3000"
)
personify.get("/users", data: "age")
```

Parsing

```
require "http"
require "hashie"

class Personify
  def initialize(public_key, private_key, base_url = "")
    @base_url = base_url

    @client = HTTP
      .basic_auth(user: public_key, pass: private_key)
      .headers(accept: :json, content_type: :json)
  end

  def get(path, params = nil)
    objectify @client.get("#{@base_url}#{path}", params: params).parse
  end

  private
  def objectify(hash)
    Hashie::Mash.new hash
  end
end
```

```
personify = Personify.new(
  "tomify", "secret",
  "http://localhost:3000"
)
data = personify.get("/users", data: "age")
data.users.first.age
=> 25
```


What?

@tomprats

github.com/tomprats

www.tomify.me

SupportNate.com

@tomprats

github.com/tomprats

www.tomify.me

Want to Support Nate?

You probably know that Nate Pettit has recently been injured in a devastating car accident. He's suffered more injuries than I can imagine, but he's fighting through it.

If everyone that has RSVPed *Going to Prayers for Nate* donates just \$1.34, then it would take care of \$1000 of medical expenses!

To donate money to go towards his medical bills and family then please click below. (Note: Paypal takes 2.9% plus \$0.30 per transaction, thus why \$1.34 \approx \$1)

[Donate](#)



Please just remember to keep praying. Nate has a lot left to do in this world and by God's grace we'll see him do it.

Tom's Missions

missions.tomprats.com

[@tomprats](https://twitter.com/tomprats)

github.com/tomprats

www.tomify.me

Problem

- No standard
- Not intuitive
- Not customizable
- High cost

Let's Check It Out!

@tomprats

github.com/tomprats

www.tomify.me

Models

Users

- Album
- Image
- Email
- Name
- Username
- Admin
- Bio
- Token

Images

- User
- Trip
- Imgur ID
- Link

Albums

- Imgur ID

Trips

- Album
- Country
- Start Date
- End Date
- Description

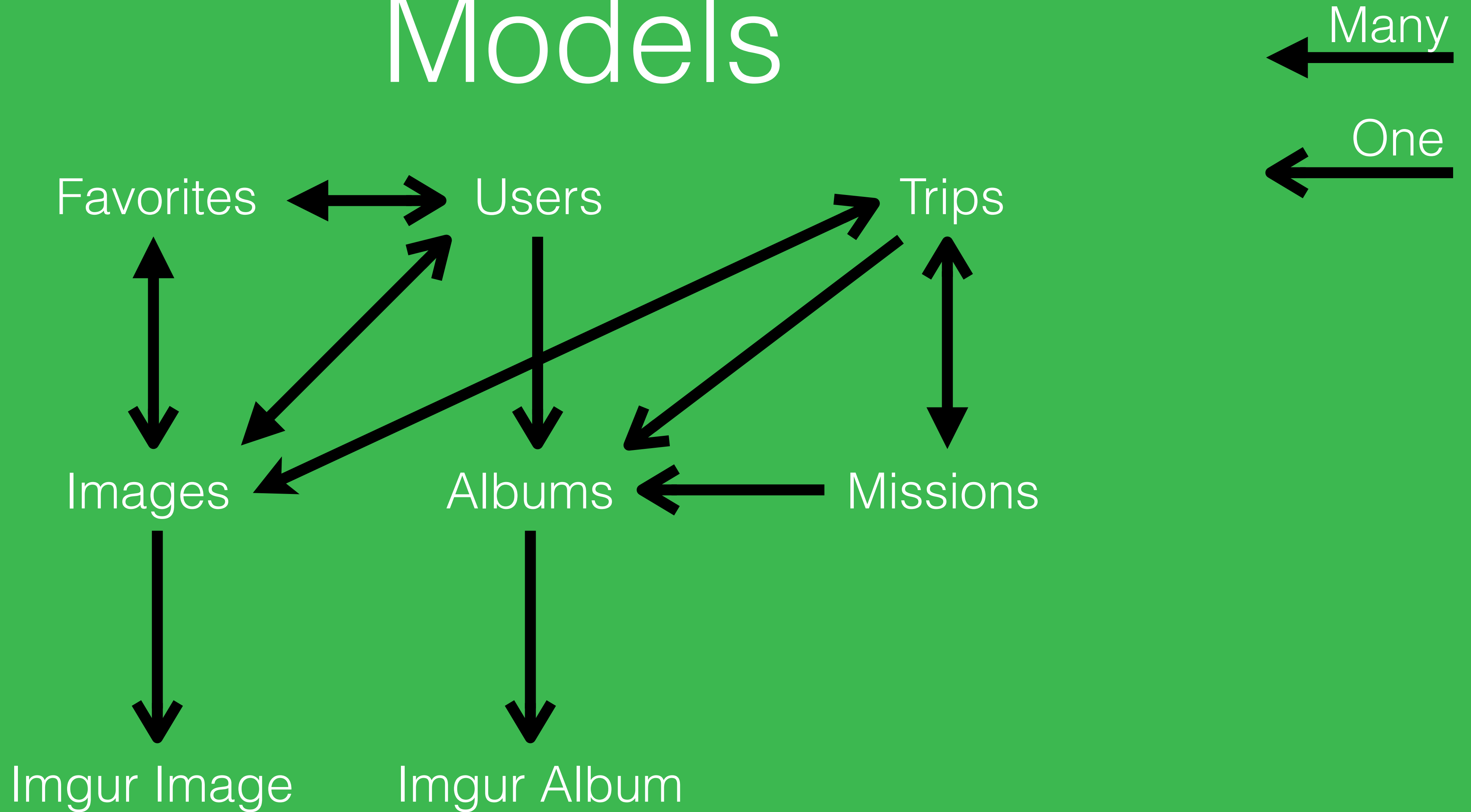
Missions

- User
- Trip
- Album

Favorites

- User
- Image

Models



Imgur

Base

- api_get
- api_post
- api_delete
- refresh_token
- token_expired?
- Helper Methods

Album

- all
- get
- create
- add_images
- delete
- Helper Methods

Image

- create
- delete

ImgurError

Imgur

```
module Imgur
  class Base
    def self.api_get(url)
      tries ||= 2
      refresh_token if token_expired?
      headers = { "Authorization" => "Bearer #{ENV["IMGUR_TOKEN"]}" }
      response = Typhoeus.get(url, headers: headers)
      raise ImgurError if response.response_code >= 400
      response
    rescue ImgurError
      error = response.body["data"]["error"]
      refresh_token && (tries -= 1).zero? ? (raise ImgurError.new(error)) : retry
    end
    ...
  end
  ...
end
```

Imgur

```
class Album < Base
  def self.all
    url = "https://api.imgur.com/3/account/#{ENV["IMGUR_USERNAME"]}/albums"
    JSON.parse(api_get(url).body) ["data"]
  end
  ...
end
```

Imgur

```
class Image < Base
  def self.create(options)
    url = "https://api.imgur.com/3/image"
    params = {
      image: options[:image].try(:tempfile),
      album: options[:album_id],
      type: options[:type] || "file", # "file" || "base64" || "URL"
      title: options[:title],
      description: options[:description]
    }
    JSON.parse(api_post(url, params).body)["data"]
  end
  ...
end
```

Imgur

```
class Image < ActiveRecord::Base
  ...
  def self.with_imgur(options)
    trip_id = options.delete(:trip_id)
    user_id = options.delete(:user_id)
    image = Imgur::Image.create(options)
    create(
      imgur_id: image["id"],
      link: image["link"],
      trip_id: trip_id,
      user_id: user_id
    )
  end
  ...
end
```

Imgur

```
class MissionsController < ApplicationController
  ...
  def add_images
    image_id = Image.with_imgur(
      title: "#{@mission.trip.name} - #{current_user.username}",
      image: params[:image],
      album_id: @mission.album.imgur_id,
      user_id: current_user.id,
      trip_id: @mission.trip_id
    ).imgur_id

    @mission.trip.album.add_images([image_id])

    render json: { success: true }
  rescue Imgur::ImgurError => e
    logger.debug "Imgur Error #{e.message}"

    render json: { error: e.message }
  end
end
...
end
```

Difficulties

- Design
- Uploads
- Timing

The Future

- Continuous slide show
- Blog functionality
- More user friendly

A man with a beard and short hair, wearing a black t-shirt and dark pants, stands against a solid green background. He has his hands on his hips and is looking directly at the camera. The text "Just Do It!" is overlaid at the bottom of the image in a white, sans-serif font.

Just Do It!

Code With Purpose

@tomprats

github.com/tomprats

www.tomify.me

Questions?

@tomprats

github.com/tomprats

www.tomify.me

Thank You

God, family, Traitify

@tomprats

github.com/tomprats

www.tomify.me