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Swoosh
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                                                          hex v1.6.3 downloads 2.1M license MIT last commit february
PAGES MODULES MIXTASKS
                                                         Compose, deliver and test your emails easily in Elixir.
                                                         We have applied the lessons learned from projects like Plug, Ecto and Phoenix in designing clean and
API Reference
                                                         composable APIs, with clear separation of concerns between modules. Swoosh comes with 12 adapters,
CHANGELOG
                                                         including SendGrid, Mandrill, Mailgun, Postmark and SMTP. See the full list of adapters below.
Contributor Code of Conduct
Contributing to Swoosh
                                                         The complete documentation for Swoosh is <u>available online at HexDocs</u>.
                                                         Requirements
                                                          Elixir 1.10+ and Erlang OTP 22+
                                                         Getting started
                                                            # In your config/config.exs file
                                                            config :sample, Sample.Mailer,
                                                              adapter: Swoosh.Adapters.Sendgrid,
                                                              api_key: "SG.x.x"
                                                            # In your application code
                                                            defmodule Sample.Mailer do
                                                              use Swoosh.Mailer, otp_app: :sample
                                                            end
                                                            defmodule Sample.UserEmail do
                                                              import Swoosh.Email
                                                              def welcome(user) do
                                                                >> to({user.name, user.email})
                                                                |> from({"Dr B Banner", "hulk.smash@example.com"})
                                                                |> subject("Hello, Avengers!")
                                                                |> html_body("<h1>Hello #{user.name}</h1>")
                                                                |> text_body("Hello #{user.name}\n")
                                                              end
                                                            end
                                                            # In an IEx session
                                                            email = Sample.UserEmail.welcome(%{name: "Tony Stark", email: "tony.stark@example.com"})
                                                            Sample.Mailer.deliver(email)
                                                            # Or in a Phoenix controller
                                                            defmodule Sample.UserController do
                                                              use Phoenix.Controller
                                                              alias Sample.UserEmail
                                                              alias Sample.Mailer
                                                              def create(conn, params) do
                                                                user = create_user!(params)
                                                                UserEmail.welcome(user) |> Mailer.deliver()
                                                              end
                                                            end
                                                         See Swoosh. Mailer for more configuration options.
                                                         Installation
                                                            • Add swoosh to your list of dependencies in mix.exs:
                                                                 def deps do
                                                                   [{:swoosh, "~> 1.6"}]
                                                                 end
                                                            • (Optional-ish) Most adapters (non SMTP ones) use Swoosh. ApiClient to talk to the service provider.
                                                               Swoosh comes with Swoosh. ApiClient. Hackney configured by default. If you want to use it, you just
                                                               need to include Hackney as a dependency of your app.
                                                               Swoosh also accepts | Finch | out-of-the-box. See | Swoosh. ApiClient. Finch | for details. If you need to
                                                               integrate with another HTTP client, it's easy to define a new API client. Follow the Swoosh. ApiClient
                                                               behaviour and configure Swoosh to use it:
                                                                 config :swoosh, :api_client, MyApp.ApiClient
                                                               But if you don't need Swoosh. ApiClient, you can disable it by setting the value to false:
                                                                 config :swoosh, :api_client, false
                                                               This is the case when you are using Swoosh. Adapters. Local, Swoosh. Adapters. Test and adapters that
                                                               are SMTP based, that don't require an API client.
                                                            • (Optional) If you are using Swoosh. Adapters. SMTP, Swoosh. Adapters. Sendmail or
                                                               Swoosh. Adapters. AmazonSES, you also need to add gen_smtp to your dependencies:
                                                                 def deps do
                                                                     {:swoosh, "~> 1.6"},
                                                                     {:gen_smtp, "~> 1.0"}
                                                                 end
                                                         Adapters
                                                         Swoosh supports the most popular transactional email providers out of the box and also has a SMTP
                                                         adapter. Below is the list of the adapters currently included:
                                                            PROVIDER
                                                                           SWOOSH ADAPTER
                                                            SMTP
                                                                           Swoosh.Adapters.SMTP
                                                                           Swoosh.Adapters.Sendgrid
                                                            SendGrid
                                                            Sendinblue
                                                                           Swoosh.Adapters.Sendinblue
                                                            Sendmail
                                                                           Swoosh.Adapters.Sendmail
                                                                           Swoosh.Adapters.Mandrill
                                                            Mandrill
                                                            Mailgun
                                                                           Swoosh.Adapters.Mailgun
                                                                           Swoosh.Adapters.Mailjet
                                                            Mailjet
                                                            Postmark
                                                                           Swoosh.Adapters.Postmark
                                                                           Swoosh.Adapters.SparkPost
                                                            SparkPost
                                                                           Swoosh.Adapters.AmazonSES
                                                            Amazon SES
                                                                           Swoosh.Adapters.Dyn
                                                            Dyn
                                                                           Swoosh.Adapters.SocketLabs
                                                            SocketLabs
                                                                           Swoosh.Adapters.Gmail
                                                            Gmail
                                                            MailPace
                                                                           Swoosh.Adapters.MailPace
                                                         Configure which adapter you want to use by updating your config.exs file:
                                                            config :sample, Sample.Mailer,
                                                              adapter: Swoosh.Adapters.SMTP
                                                              # adapter config (api keys, etc.)
                                                         Check the documentation of the adapter you want to use for more specific configurations and instructions.
                                                         Adding new adapters is super easy and we are definitely looking for contributions on that front. Get in
                                                          touch if you want to help!
                                                         Recipient
                                                         The Recipient Protocol enables you to easily make your structs compatible with Swoosh functions.
                                                            defmodule MyUser do
                                                             @derive {Swoosh.Email.Recipient, name: :name, address: :email}
                                                              defstruct [:name, :email, :other_props]
                                                            end
                                                         Now you can directly pass <code>%MyUser{}</code> to <code>from</code>, to, <code>cc</code>, <code>bcc</code>, etc. See <code>Swoosh.Email.Recipient</code> for more
                                                         details.
                                                         Async Emails
                                                         Swoosh does not make any special arrangements for sending emails in a non-blocking manner. Opposite
                                                         to some stacks, sending emails, talking to third party apps, etc in Elixir do not block or interfere with
                                                         other requests, so you should resort to async emails only when necessary.
                                                         One simple way to deliver emails asynchronously is by leveraging Elixir's standard library. First add a
                                                         Task supervisor to your application root, usually at lib/my_app/application.ex:
                                                            def start(_, _) do
                                                              children = [
                                                                # Before the endpoint
                                                                {Task.Supervisor, name: MyApp.AsyncEmailSupervisor},
                                                                MyApp.Endpoint
                                                              Supervisor.start_link(children, strategy: :one_for_one)
                                                            end
                                                         Now, whenever you want to send an email:
                                                            Task.Supervisor.start_child(MyApp.AsyncEmailSupervisor, fn ->
                                                              %{name: "Tony Stark", email: "tony.stark@example.com"}
                                                              > Sample.UserEmail.welcome()
                                                              |> Sample.Mailer.deliver()
                                                            end)
                                                          Please take a look at the official docs for <u>Task</u> and <u>Task.Supervisor</u> for further options.
                                                         One of the downsides of sending email asynchronously is that failures won't be reported to the user, who
                                                         won't have an opportunity to try again immediately, and tasks by default do not retry on errors.
                                                         Therefore, if the email must be delivered asynchronously, a safer solution would be to use a queue or job
                                                         system. Elixir's ecosystem has many job queue libraries.
                                                            • Oban is the current community favourite. It uses PostgreSQL for storage and coordination.
                                                            • Exq uses Redis and is compatible with Resque / Sidekiq.
                                                         Phoenix integration
                                                         If you are looking to use Swoosh in your Phoenix project, make sure to check out the <a href="mailto:phoenix_swoosh">phoenix_swoosh</a>
                                                         project. It contains a set of functions that make it easy to render the text and HTML bodies using Phoenix
                                                         views, templates and layouts.
                                                         Taking the example from above the "Getting Started" section, your code would look something like this:
                                                             web/templates/layout/email.html.eex
                                                            <html>
                                                              <head>
                                                                <title><%= @email.subject %></title>
                                                              </head>
                                                              <body>
                                                                <%= @inner_content %>
                                                              </body>
                                                            </html>
                                                             web/templates/email/welcome.html.eex
                                                            <div>
                                                              <h1>Welcome to Sample, <%= @username %>!</h1>
                                                            </div>
                                                             web/emails/user_email.ex
                                                            defmodule Sample.UserEmail do
                                                              use Phoenix.Swoosh, view: Sample.EmailView, layout: {Sample.LayoutView, :email}
                                                              def welcome(user) do
                                                                new()
                                                                >> to({user.name, user.email})
                                                                |> from({"Dr B Banner", "hulk.smash@example.com"})
                                                                |> subject("Hello, Avengers!")
                                                                |> render_body("welcome.html", %{username: user.username})
                                                              end
                                                            end
                                                          Feels familiar doesn't it? Head to the <a href="mailto:phoenix_swoosh">phoenix_swoosh</a> repo for more details.
                                                         Attachments
                                                         You can attach files to your email using the Swoosh. Email.attachment/2 function. Just give the path of your
                                                          file as an argument and we will do the rest. It also works with a %Plug.Upload{} struct, or a
                                                          %Swoosh.Attachment{} struct, which can be constructed using Swoosh.Attachment.new detailed here in the
                                                         docs.
                                                         All built-in adapters have support for attachments.
                                                            new()
                                                            |> to("peter@example.com")
                                                            |> from({"Jarvis", "jarvis@example.com"})
                                                            |> subject("Invoice May")
                                                            |> text_body("Here is the invoice for your superhero services in May.")
                                                            |> attachment("/Users/jarvis/invoice-peter-may.pdf")
                                                         Testing
                                                         In your config/test.exs file set your mailer's adapter to Swoosh. Adapters. Test so that you can use the
                                                         assertions provided by Swoosh in Swoosh. TestAssertions module.
                                                            defmodule Sample.UserTest do
                                                              use ExUnit.Case, async: true
                                                              import Swoosh.TestAssertions
                                                              test "send email on user signup" do
                                                                # Assuming `create_user` creates a new user then sends out a `Sample.UserEmail.welcome` email
                                                                user = create_user(%{username: "ironman", email: "tony.stark@example.com"})
                                                                assert_email_sent Sample.UserEmail.welcome(user)
                                                              end
                                                            end
                                                         Mailbox preview in the browser
                                                         Swoosh ships with a Plug that allows you to preview the emails in the local (in-memory) mailbox. It's
                                                         particularly convenient in development when you want to check what your email will look like while
                                                         testing the various flows of your application.
                                                          For email to reach this mailbox you will need to set your Mailer adapter to Swoosh. Adapters. Local:
                                                            # in config/dev.exs
                                                            config :sample, MyApp.Mailer,
                                                              adapter: Swoosh.Adapters.Local
                                                         In your Phoenix project you can forward directly to the plug without spinning up a separate webserver,
                                                         like this:
                                                            # in web/router.ex
                                                            if Mix.env == :dev do
                                                              scope "/dev" do
                                                                pipe_through [:browser]
                                                                forward "/mailbox", Plug.Swoosh.MailboxPreview
                                                              end
                                                            end
                                                         You can also start a new server if your application does not depends on Phoenix:
                                                            # in config/dev.exs
                                                            # to run the preview server alongside your app
                                                            # which may not have a web interface already
                                                            config :swoosh, serve_mailbox: true
                                                            # in config/dev.exs
                                                            # to change the preview server port (4000 by default)
                                                            config :swoosh, serve_mailbox: true, preview_port: 4001
                                                         When using serve_mailbox: true make sure to have plug_cowboy as a dependency of your app.
                                                            {:plug_cowboy, ">= 1.0.0"}
                                                         And finally you can also use the following Mix task to start the mailbox preview server independently:
                                                            $ mix swoosh.mailbox.server
                                                         Note: the mailbox preview won't display emails being sent from outside its own node. So if you are testing
                                                         using an IEx session, it's recommended to boot the application in the same session. iex -S mix
                                                         phx.server or iex -S mix swoosh.mailbox.server will do the trick.
                                                         If you are curious, this is how it the mailbox preview looks like:
                                                           {"Bruce Banner", "bruce@banner.com"}
                                                                                       Subject
                                                                                                      "Welcome to The Avengers!"
                                                           "Combat training monday at 8am"
                                                                                                      {"Tony Stark", "tony@stark.com"}
                                                                                                      [{"", "steve@rogers.com"}]
                                                                                       То
                                                           {"Natasha Romanova",
                                                                                       Cc
                                                           "black@widow.com"}
                                                           "Congrats on joining"
                                                                                       Reply-to
                                                           {"", "edwin@jarvis.com"}
                                                                                       Message-ID
                                                                                                      "030B8A6E120BAD38A140CE251D585760"
                                                           "Your account has been created!"
                                                                                       Text body:
                                                           {"Tony Stark", "tony@stark.com"}
                                                            Welcome to The Avengers!"
                                                                                         Welcome to The Avengers
                                                                                         We are delighted to have you on-board. You will receive an email to active your account from our beloved A.I. Jarv:
                                                                                         Read more about the team here: https://avengers.com/login
                                                                                         See you tonight at the party
                                                                                       HTML body preview:
                                                                                        Welcome to The Avengers
                                                                                        We are delighted to have you on-board. You will receive an email to active your account from our beloved A.I. Jarvis in a few seconds.
                                                                                        Read more about the team here
                                                                                        See you at the party tonight,
                                                                                       Open preview in separate tab
                                                         The preview is also available as a JSON endpoint.
                                                            $ curl http://localhost:4000/dev/mailbox/json
                                                         Production
                                                         Swoosh starts a memory storage process for local adapter by default. Normally it does no harm being left
                                                         around in production. However, if it is causing problems, or you don't like having it around, it can be
                                                         disabled like so:
                                                           # config/prod.exs
                                                            config :swoosh, local: false
                                                         Telemetry
                                                         The following events are emitted:
                                                            • [:swoosh, :deliver, :start]: occurs when Mailer.deliver/2 begins.
                                                            • [:swoosh, :deliver, :stop]: occurs when Mailer.deliver/2 completes.
                                                            • [:swoosh, :deliver, :exception]: occurs when Mailer.deliver/2 throws an exception.
                                                            • [:swoosh, :deliver_many, :start]: occurs when Mailer.deliver_many/2 begins.
                                                            • [:swoosh, :deliver_many, :stop]: OCCUTS when Mailer.deliver_many/2 completes.
                                                            • [:swoosh, :deliver_many, :exception]: Occurs when Mailer.deliver_many/2 throws an exception.
                                                         View example in docs
                                                         Documentation
                                                          Documentation is written into the library, you will find it in the source code, accessible from iex and of
                                                         course, it all gets published to HexDocs.
                                                         Contributing
                                                         We are grateful for any contributions. Before you submit an issue or a pull request, remember to:
                                                            • Look at our <u>Contributing guidelines</u>
                                                            • Not use the issue tracker for help or support requests (try StackOverflow, IRC or Slack instead)
                                                            • Do a quick search in the issue tracker to make sure the issues hasn't been reported yet.
                                                            • Look and follow the <u>Code of Conduct</u>. Be nice and have fun!
                                                         Running tests
                                                         Clone the repo and fetch its dependencies:
                                                            $ git clone https://github.com/swoosh/swoosh.git
                                                            $ cd swoosh
                                                            $ mix deps.get
                                                            $ mix test
                                                         Building docs
                                                            $ MIX_ENV=docs mix docs
                                                         LICENSE
                                                         See LICENSE
                                                                                          On Hex.pm: Package Preview (current file) Search
                                                                                     Built using ExDoc (vo.28.0) for the Elixir programming language
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