goto;

GOTO
AARHUS 2022



#GOTOaar

Hobby scale: making web apps with minimal fuss

This presentation is interactive, join here:



1 person has joined

https://goto.lamdera.app

Quick disclaimer

- I'm going to show off a tool called Lamdera.
- I don't have any financial ties but I am friends with the creator of it

A little about me:

As a hobby, I make web apps

Fight over which color is the best!

The best color is

Blue!

No! The best color is...



The best color has changed 8933 times.

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Question and answer app

Questions

2❤️ Are you the real Martin? Unpin

Pinned 📌

2❤️ What is the airspeed velocity of an unladen swallow? Answer

1❤️ ? Answer

0❤️ 😈 Answer

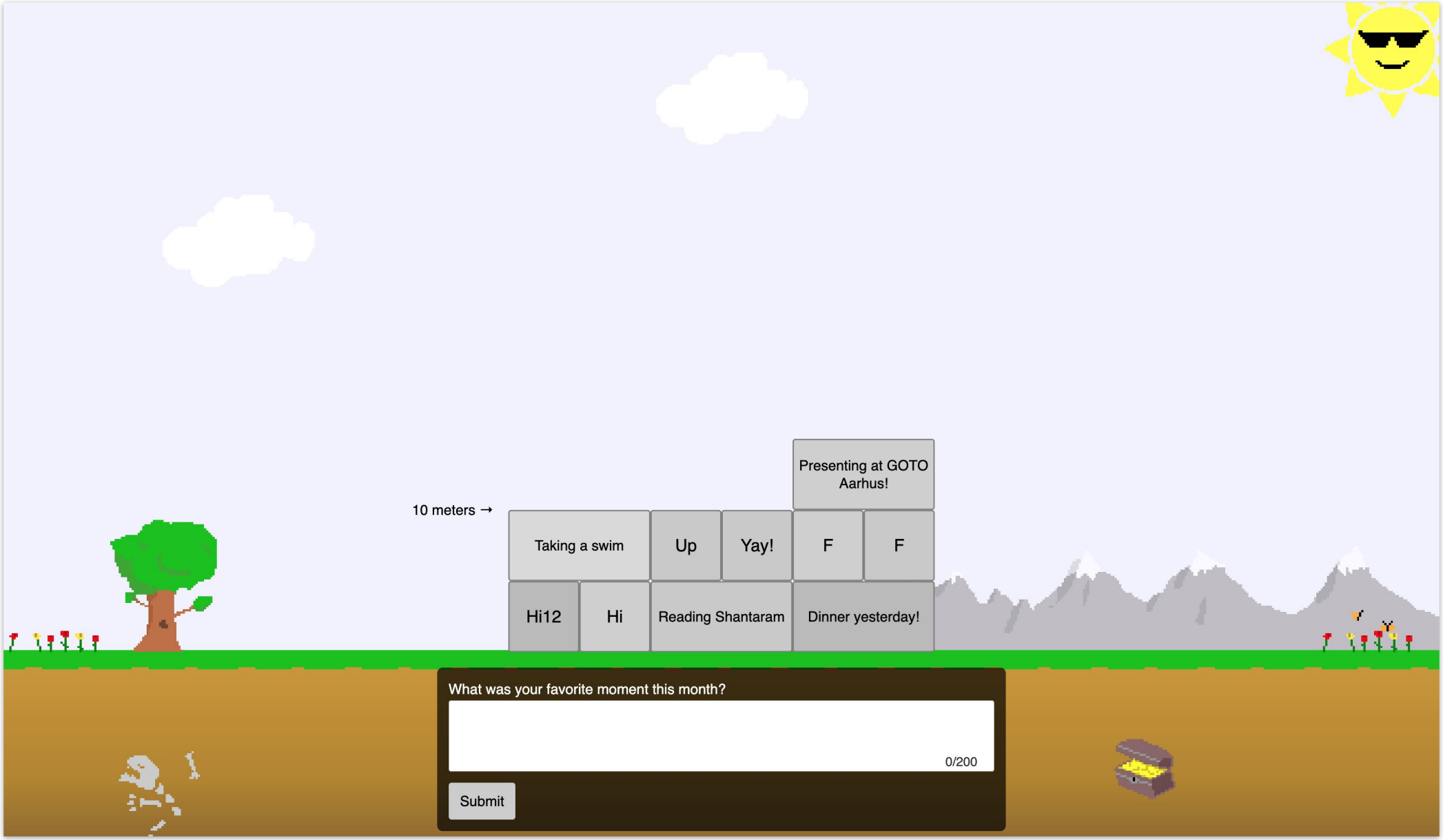
0❤️ African Swallow? Answer

0❤️
 Answer



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Favorite moment this month?



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2 years ago I wouldn't have bothered making these apps

- The business logic is simple
- But a lot of infrastructure work is still needed
- For a job I might tolerate that, but not in my free time!

Web app checklist

- ☐ Database
- ☐ Communicate to/from frontend/backend
- ☐ Hot reloading and running backend locally
- ☐ CI/CD
- ☐ Hosting
- ☐ Write the actual app

2 years ago I started using a tool called Lamdera

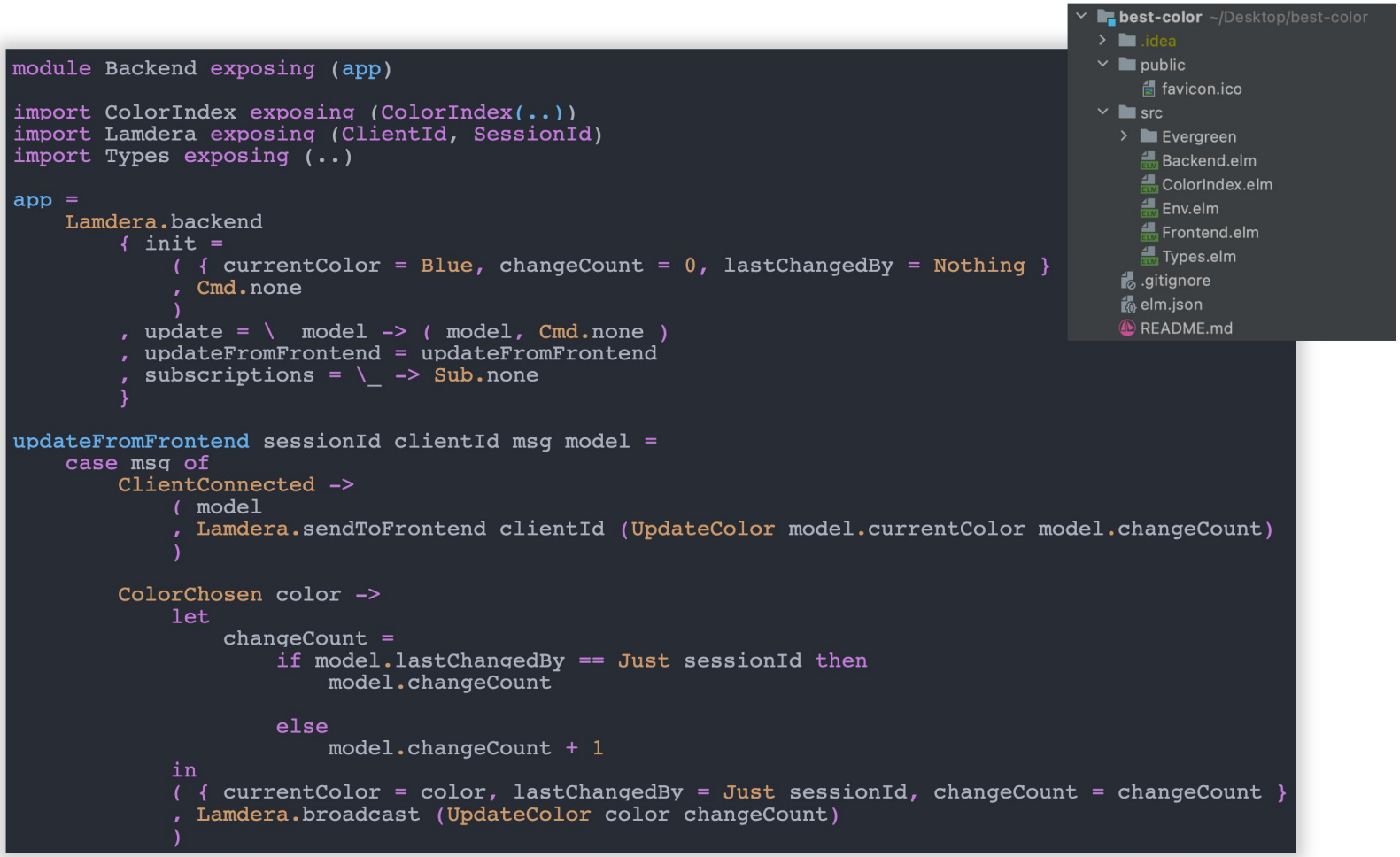
- Developed by Mario Rogic
- Opinionated platform for creating and hosting full stack web apps
- Apps are programmed using the Elm language

Web app checklist (for Lamdera)

- ☑ Database
- ☑ Communicate to/from frontend/backend
- ☑ Hot reloading and running backend locally
- ☑ CI/CD
- ☑ Hosting
- ☐ Write the actual app

What does this look like in practice?

1. `lamdera init`
2. `lamdera live`
3. Write the business logic for the app
4. Go to the lamdera dashboard to create an app and give it name
5. `lamdera deploy`




```elm
module Backend exposing (app)

import ColorIndex exposing (ColorIndex(..))
import Lamdera exposing (ClientId, SessionId)
import Types exposing (..)

app =
    Lamdera.backend
        { init =
            ( { currentColor = Blue, changeCount = 0, lastChangedBy = Nothing }
            , Cmd.none
            )
        , update = \  model -> ( model, Cmd.none )
        , updateFromFrontend = updateFromFrontend
        , subscriptions = \_ -> Sub.none
        }

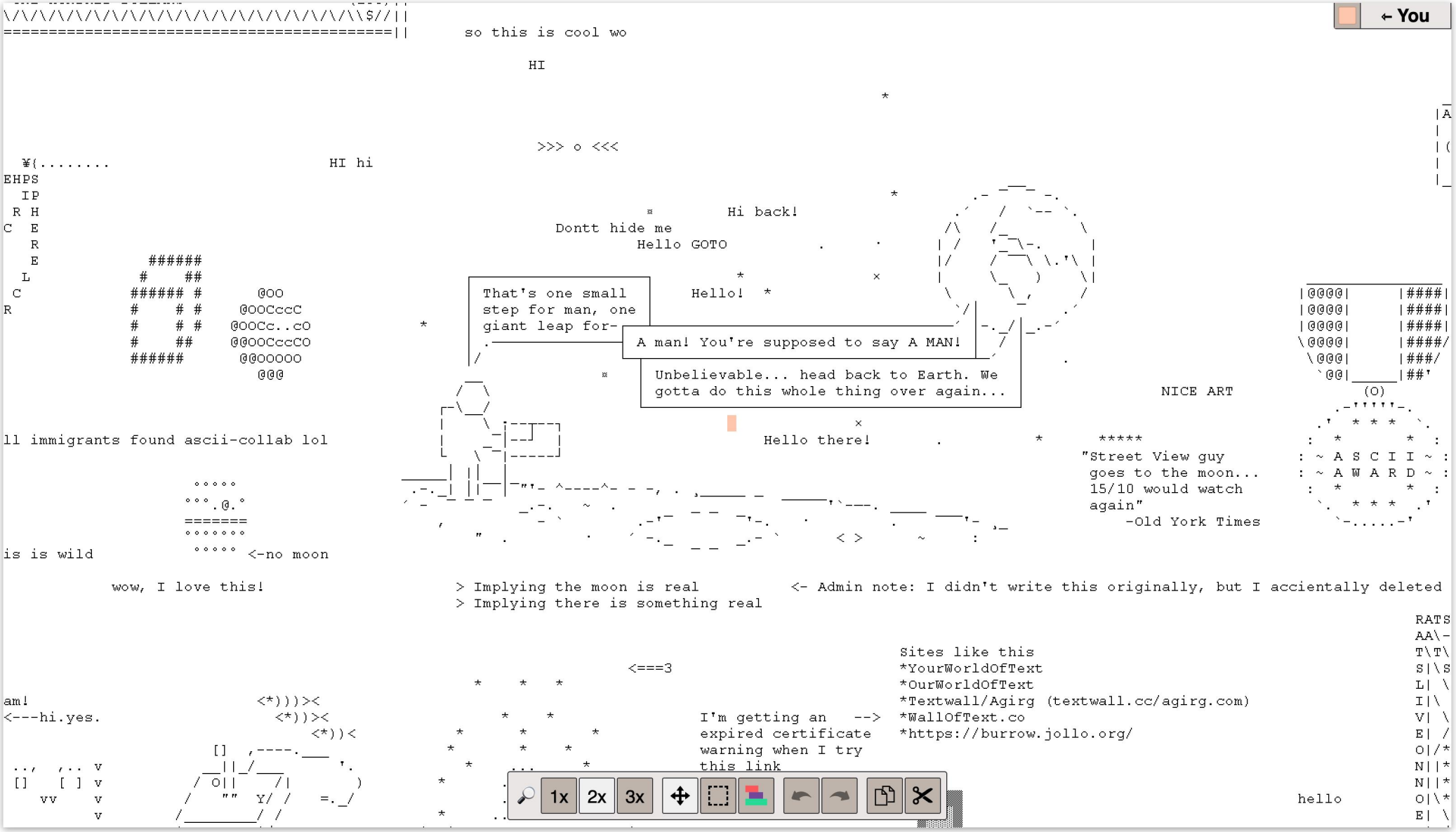
updateFromFrontend sessionId clientId msg model =
    case msg of
        ClientConnected ->
            ( model
            , Lamdera.sendToFrontend clientId (UpdateColor model.currentColor model.changeCount)
            )

        ColorChosen color ->
            let
                changeCount =
                    if model.lastChangedBy == Just sessionId then
                        model.changeCount

                    else
                        model.changeCount + 1
            in
            ( { currentColor = color, lastChangedBy = Just sessionId, changeCount = changeCount }
            , Lamdera.broadcast (UpdateColor color changeCount)
            )
```

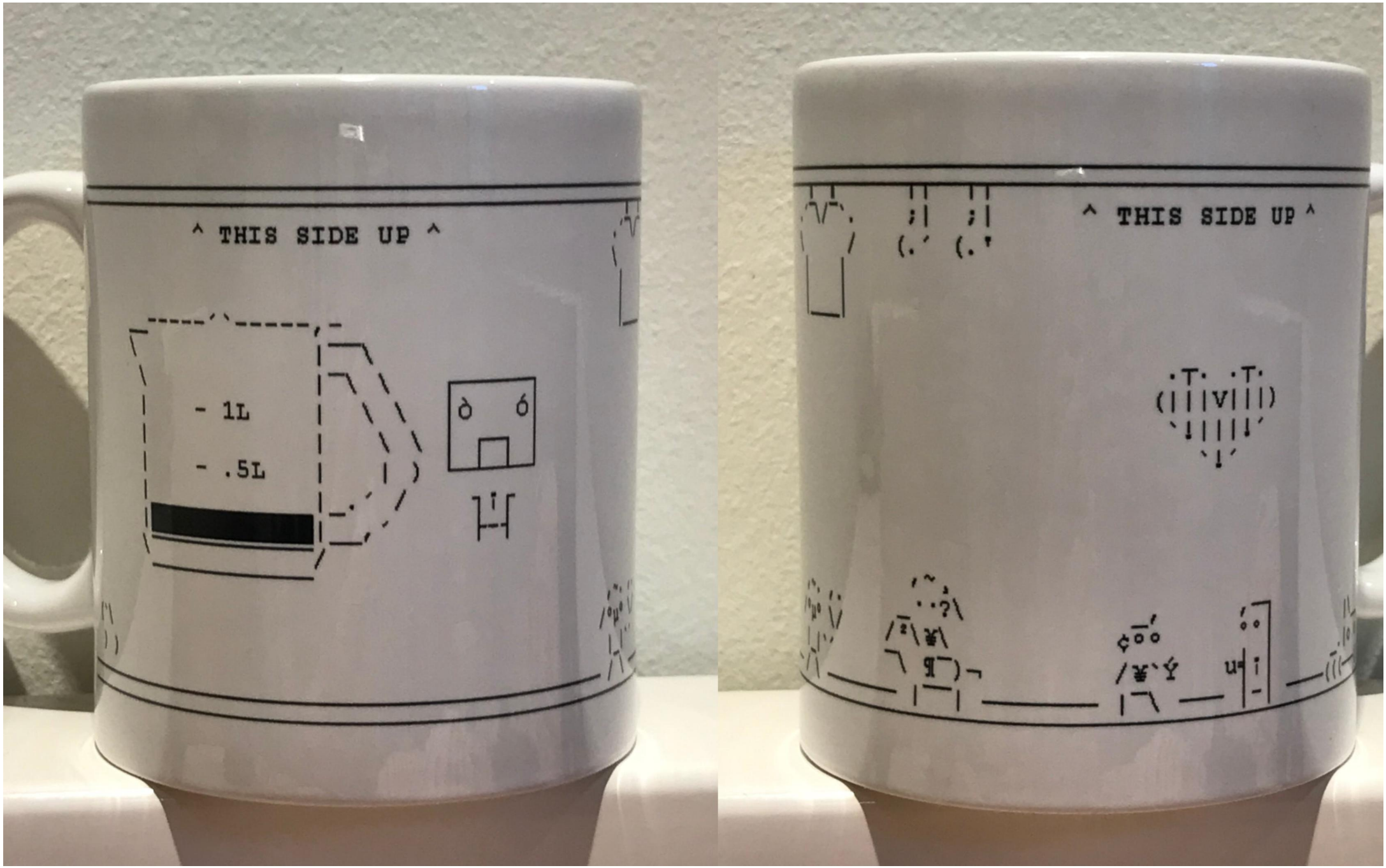
So it's quick to make simple stuff, but what about more complicated use cases?

Draw ascii art with friends!



https://goto.lamdera.app


Hello.
Hi.
@ascii-collab
BAZINGA
JUAN
MOYAI
POKE!
based


^ THIS SIDE UP ^
- 1L
- .5L
^ THIS SIDE UP ^

meetup.com but free!

Meetdown

Sign up / Login



A place to join groups of people with shared interests.

We don't sell your data, we don't show ads, and it's free. Read more

Search

Privacy Terms of service Code of conduct FaQ

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State of Elm survey

State of Elm 2022

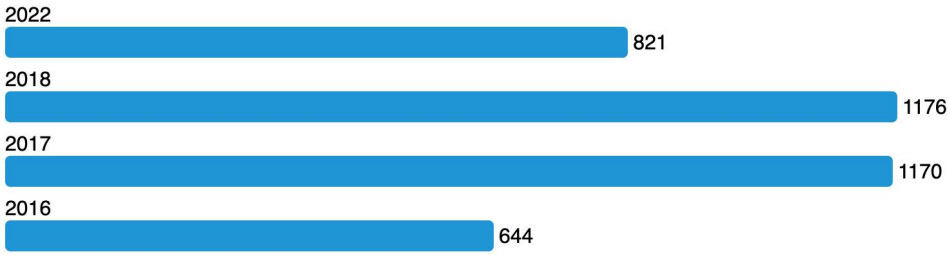
The survey results are in!

Thank you to everyone who participated!

There was a 4 year hiatus for the State of Elm survey. Previously Brian Hicks ran this survey but going forward I'll be managing it. Special thanks to Wolfadex for helping categorize all the free text answers.

This is a community run survey not affiliated with Evan Czaplicki or Elm

Number of participants



Fewer people participated in the survey this year compared to 2018 and 2017. I spoke with Brian Hicks about this and it's likely because:

- This survey was only open for 20 days in contrast to the 2018 survey which was open for 60 days (though it's worth noting that by the 20 day mark, there weren't many new participants)
- Brian promoted the survey via additional channels such as mailing lists and external communities (I only linked this years survey on Elm Slack, Incremental Elm, and Elm Discourse)
- People likely formed a habit of filling out the surveys when they were occurring

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The Sheep Game



Sheep Game Results

Scoring

For each question you get points equal to the number of people who picked the same answer as you (including yourself). For example, if you pick a unique answer, you get 1 point. If you and two others pick the same answer, you three get 3 points.

The person with the most points at the end wins!

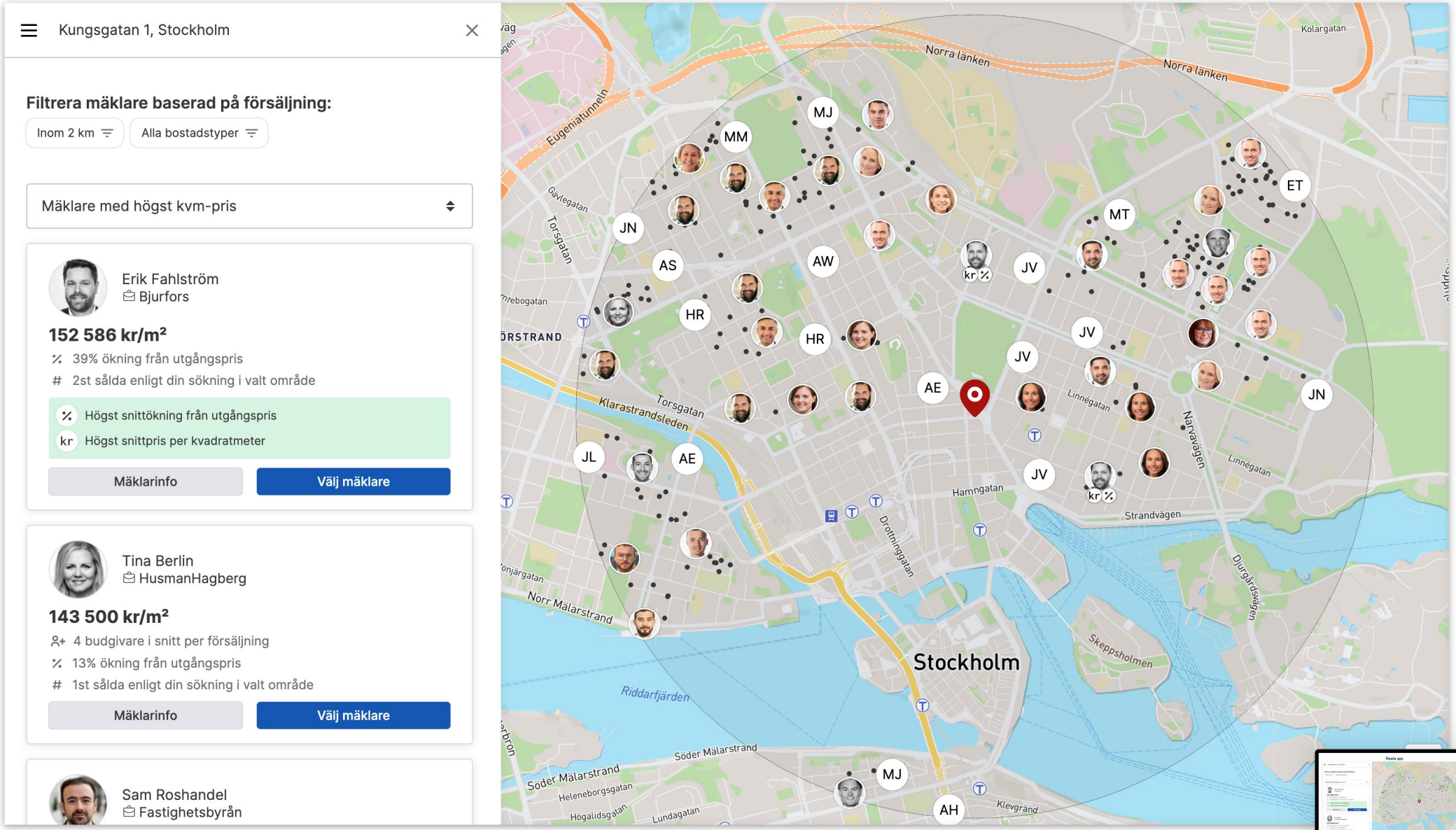
1. What's your favorite color?

Simon Lydell	red
Philipp	red
Pit	red

Georges	Blue
Ed	blue
Mario	Blue
hayleigh	blue
Sylvain	Blue

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Realia app



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Multiplayer game

Air Hockey Racing

Create new match

Or join existing match

There are currently no existing matches

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Multiplayer game (with the audience?)



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And more!

- New years eve present for friends
- Reusing ascii-collab for a get-well-soon card
- Reusing ascii-collab for a goodbye card
- This presentation!
- Another presentation!
- Translation editing app for work
- Discord bot
- elm-review Github bot

Tradeoffs

- Elm only
- Limited CPU and memory resources (not web-scale)
- Vendor lock-in

In conclusion...

- Lamdera is cool!
- It's not suitable for all web apps
- But when you can use it, it can save you a lot of effort

Links

🔗 lamdera.com

🔗 dashboard.lamdera.app/shouldnt-use

🔗 the-best-color.lamdera.app
github.com/MartinSStewart/best-color

🔗 question-and-answer.app
github.com/MartinSStewart/elm-qna

🔗 moment-of-the-month.app/
github.com/MartinSStewart/elm-moment-of-the-month

🔗 ascii-collab.app
github.com/MartinSStewart/ascii-collab

🔗 meetdown.app
github.com/MartinSStewart/meetdown

🔗 state-of-elm.lamdera.app/
github.com/MartinSStewart/state-of-elm

🔗 sheep-game.lamdera.app/join/a217210861

🔗 realia.se

🔗 air-hockey-racing.lamdera.app
github.com/MartinSStewart/air-hockey-racing

🔗 goto.lamdera.app
github.com/MartinSStewart/lamdera-presentation

github.com/MartinSStewart/elm-review-bot

www.youtube.com/watch?v=lw1E9sPbq28

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