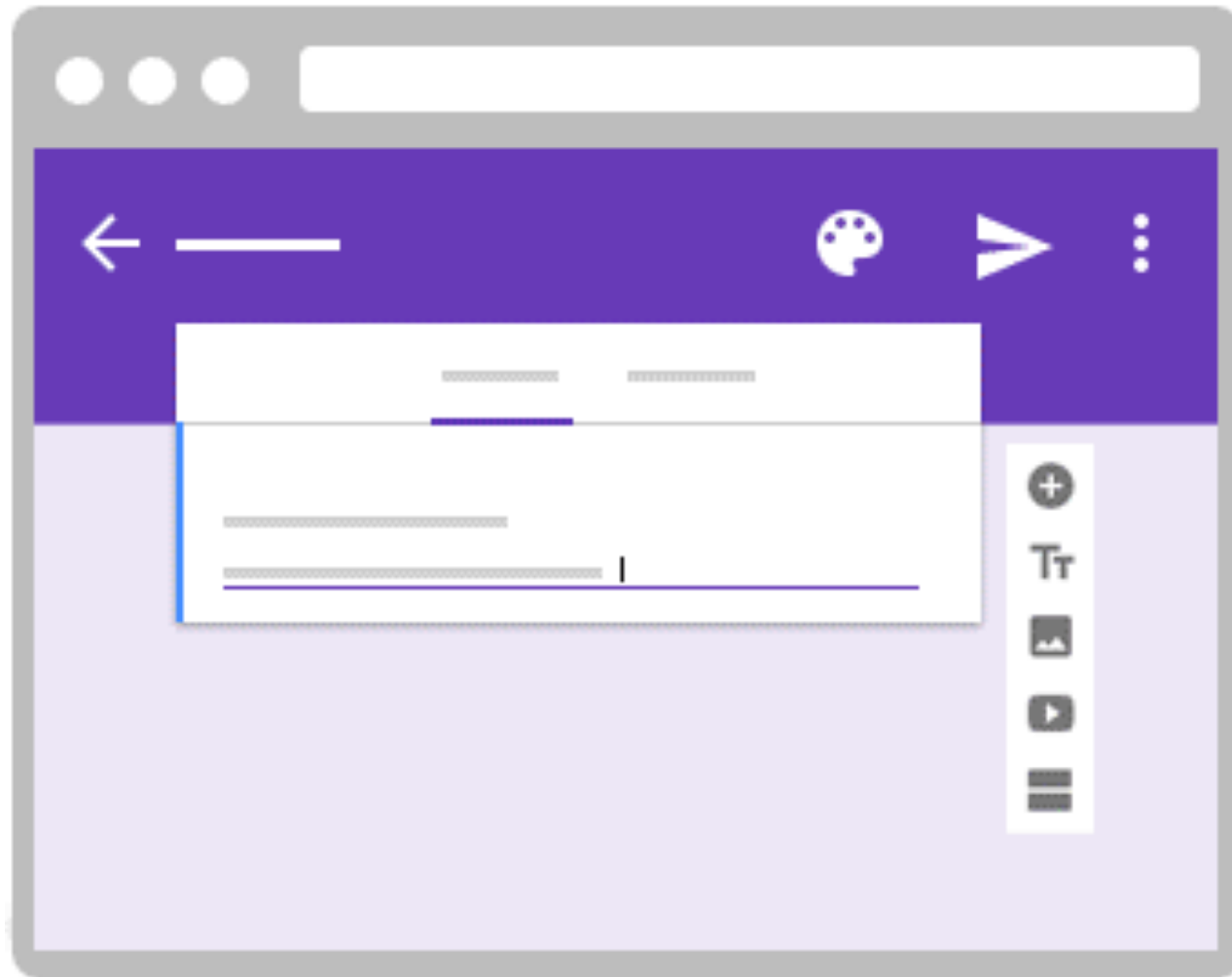


surveydown: An Open-Source, Markdown-Based Platform for Interactive and Reproducible Surveys

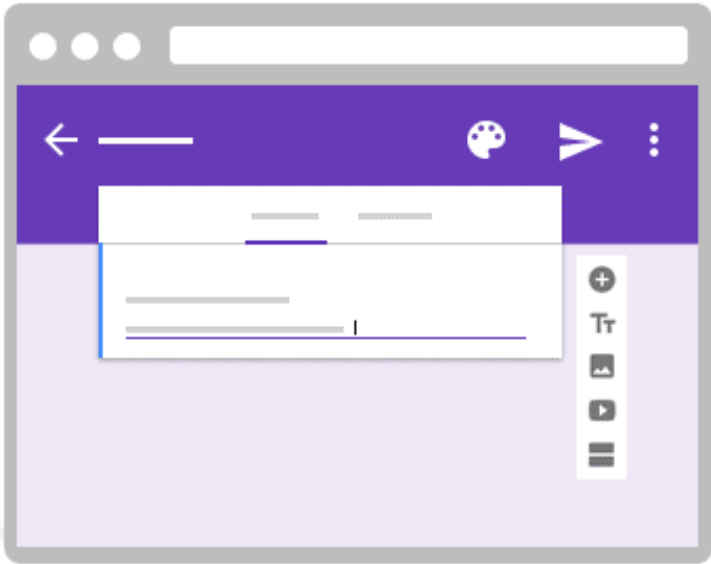
Pingfan Hu, Bogdan Bunea, John Paul Helveston



Typical experience making a survey



Typical experience making a survey



✗ Reproducible

✗ Data Control

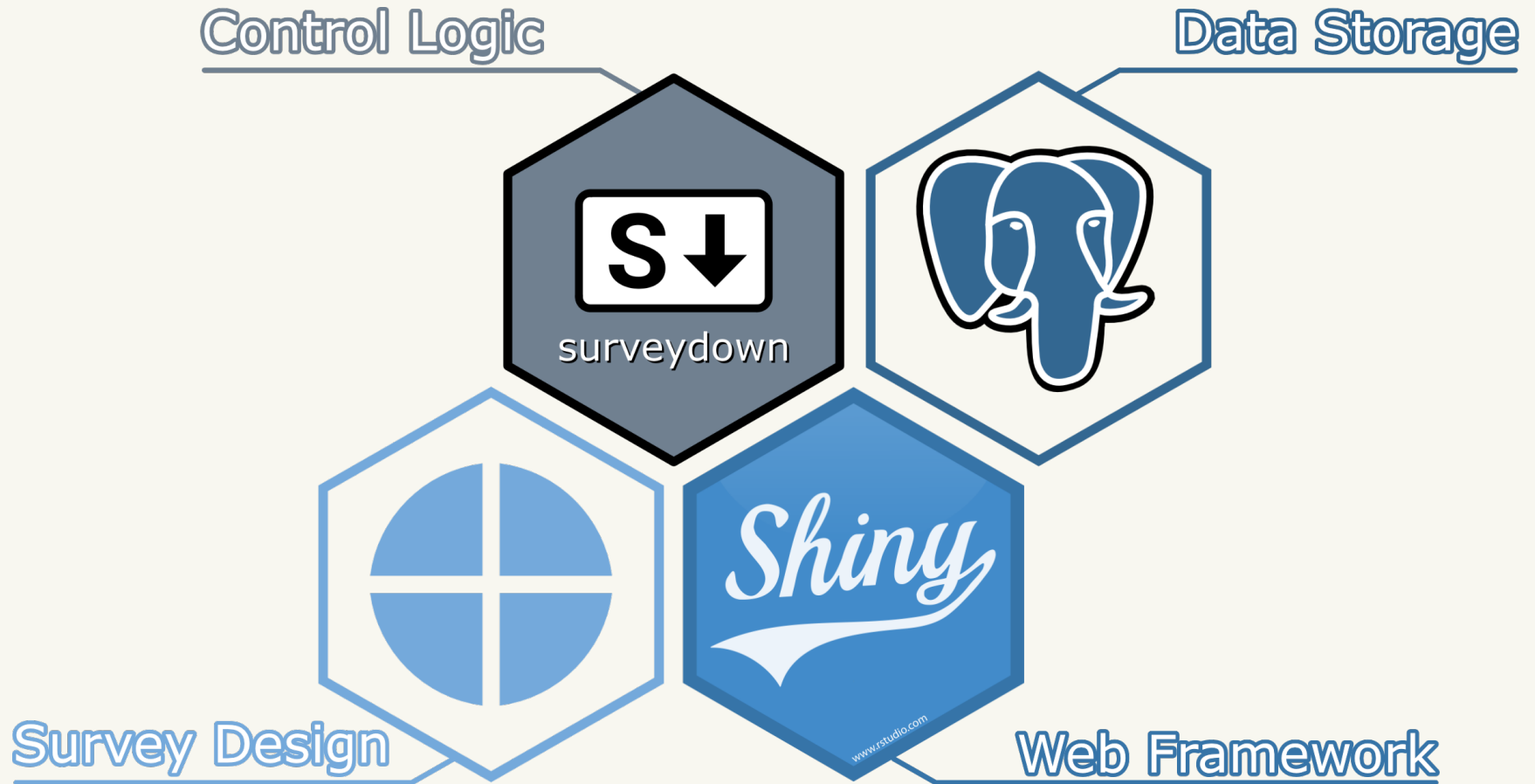
⚠ Free to Use

⚠ Open Source

⚠ Easy Collaboration

⚠ Feature Packed

Introducing surveydown



Components

`survey.qmd`

A **Quarto doc** defining the main survey content (pages, text, images, questions, etc).

`app.R`

An **R script** defining the survey Shiny app. It sets up the database and server, and launches the survey.

survey.qmd

```
1 ---
2 format: html
3 echo: false
4 warning: false
5 ---
6
7 ```{r}
8 library(surveydown)
9 ```
10
11 ::: {#welcome .sd-page}
12
13 # Welcome to our survey!
14
15 ```{r}
16 sd_question(
17   type = "mc",
18   id    = "penguins",
19   label = "What's your favorite penguin?",
20   option = c(
21     "Adélie"      = "adelie",
22     "Chinstrap"   = "chinstrap",
23     "Gentoo"      = "gentoo"
24   )
25 )
26
27 sd_next()
28 ```
29
30 :::
31
32 ::: {#end .sd-page}
33
34 This is the last page of the survey.
35
36 ```{r}
37 sd_close()
38 ```
39
40 :::
```

survey.qmd

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YAML Header

Load Package

survey.qmd

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34 This is the last page of the survey.
35
36 ```{r}
37 sd_close()
38 ```
39
40 :::
```

Define pages using “fences”:

```
::: {#id .sd-page}
:::
```

Page 1 (Welcome)

Page 2 (End)

survey.qmd

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Contents of Page 1

survey.qmd

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```

Question Definition

app.R

```
1 # Load Package
2 library(surveydown)
3
4 # Database Credentials
5 sd_db_config()
6
7 # Connect to Database
8 db <- sd_db_connect()
9
10 # Server Setup
11 server <- function(input, output, session) {
12
13   # Skip logic
14   sd_skip_if(...)
15
16   # Conditional display
17   sd_show_if(...)
18
19   # Server settings
20   sd_server(
21     db = db,
22     ...
23   )
24 }
25
26 # Launch Survey
27 shiny::shinyApp(ui = sd_ui(), server = server)
```

app.R

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Load Package

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22     ...
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```

Database Setup

We recommend using **Supabase** or any **PostgreSQL** database for the database setup.

app.R

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Server Setup

app.R

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```

Launch Survey



Templates and demos are provided on
surveydown.org for an easy start.

Demo: Built-in Question Types

Demo - Question Types

Hi! This is a showcase of different question types and question formatting that surveydown supports.

Please make your choice below.

Where do you want to go to?

- ☐ Take me to the page on Question Types (the next page)
- ☐ Take me to the page on Question Formatting
- ☐ Skip to the end

Next

Made with [surveydown](#)

[Source Code](#)

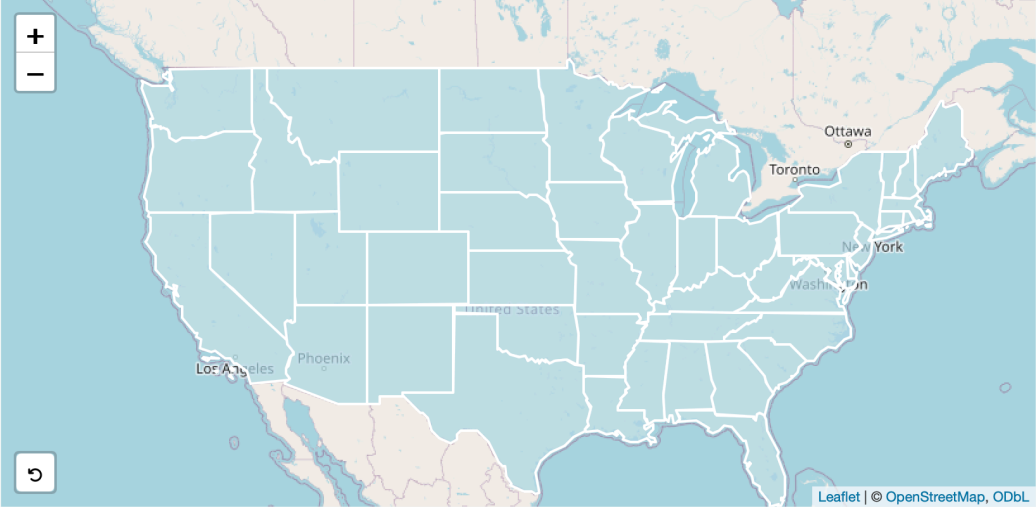
Demo: Custom Question (leaflet Map)

Demo - Custom Leaflet Map

Click on the state you live in:

+

-



↺

Leaflet | © OpenStreetMap, ODbL

You live in:

Next

Made with [surveydown](#)[Source Code](#)

Survey Dashboard

Survey Dashboard

Dashboard

DB Config

Current Database Settings

Host:

Port:

6543

Database:

postgres

User:

GSS Mode:

disable

Default Table:

question-types

Update Database Connection

Host:

aws-0-us-east-1.pooler.supabase.com

Port:

6543

Database Name:

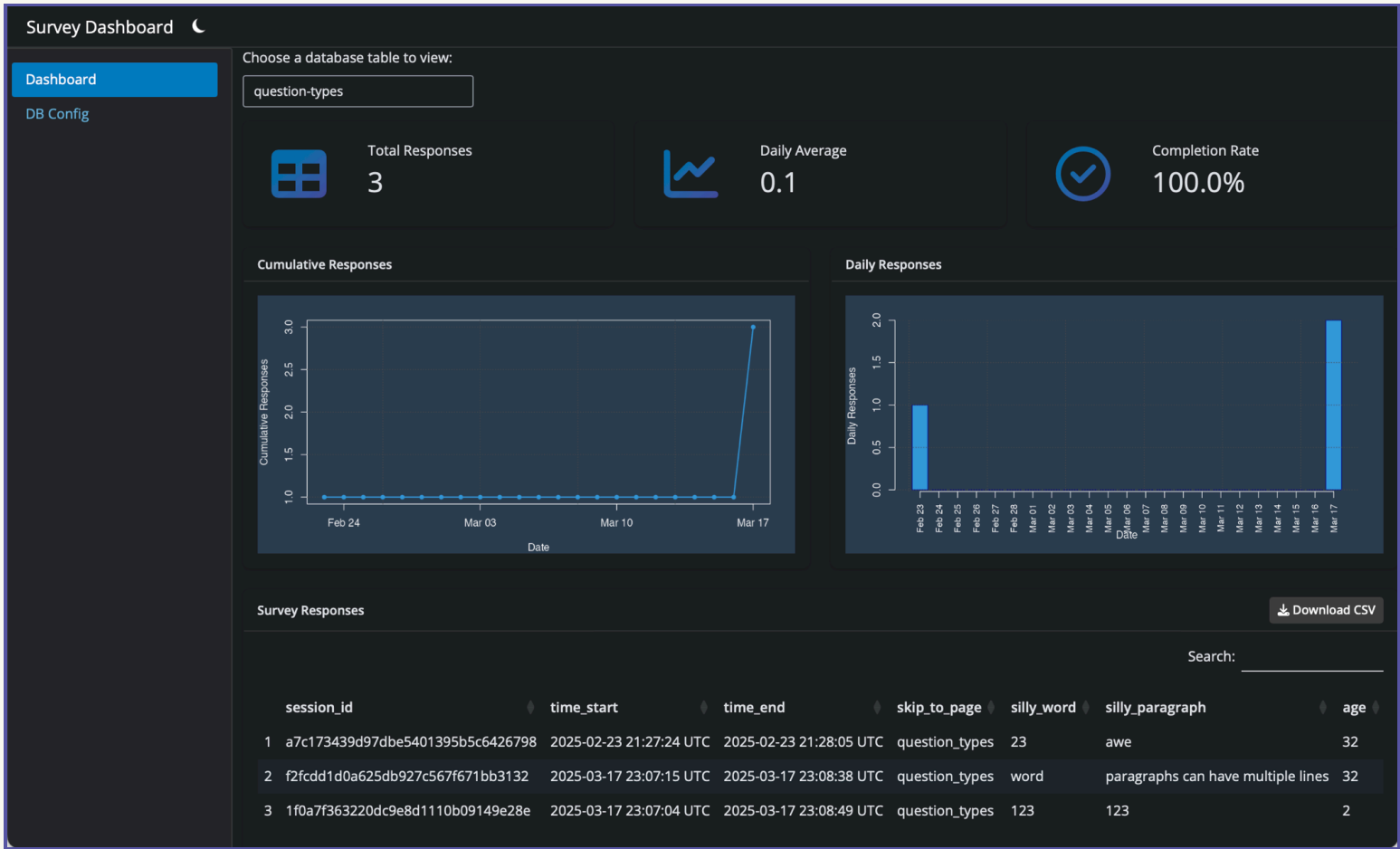
postgres

User:

postgres.hwumdvjnymbrgeemvrhq

Credentials

Survey Dashboard



Survey Data

Future Work

GUI for defining surveys

More question types

...and more!

You can contribute!

Check out surveydown.org for more!