

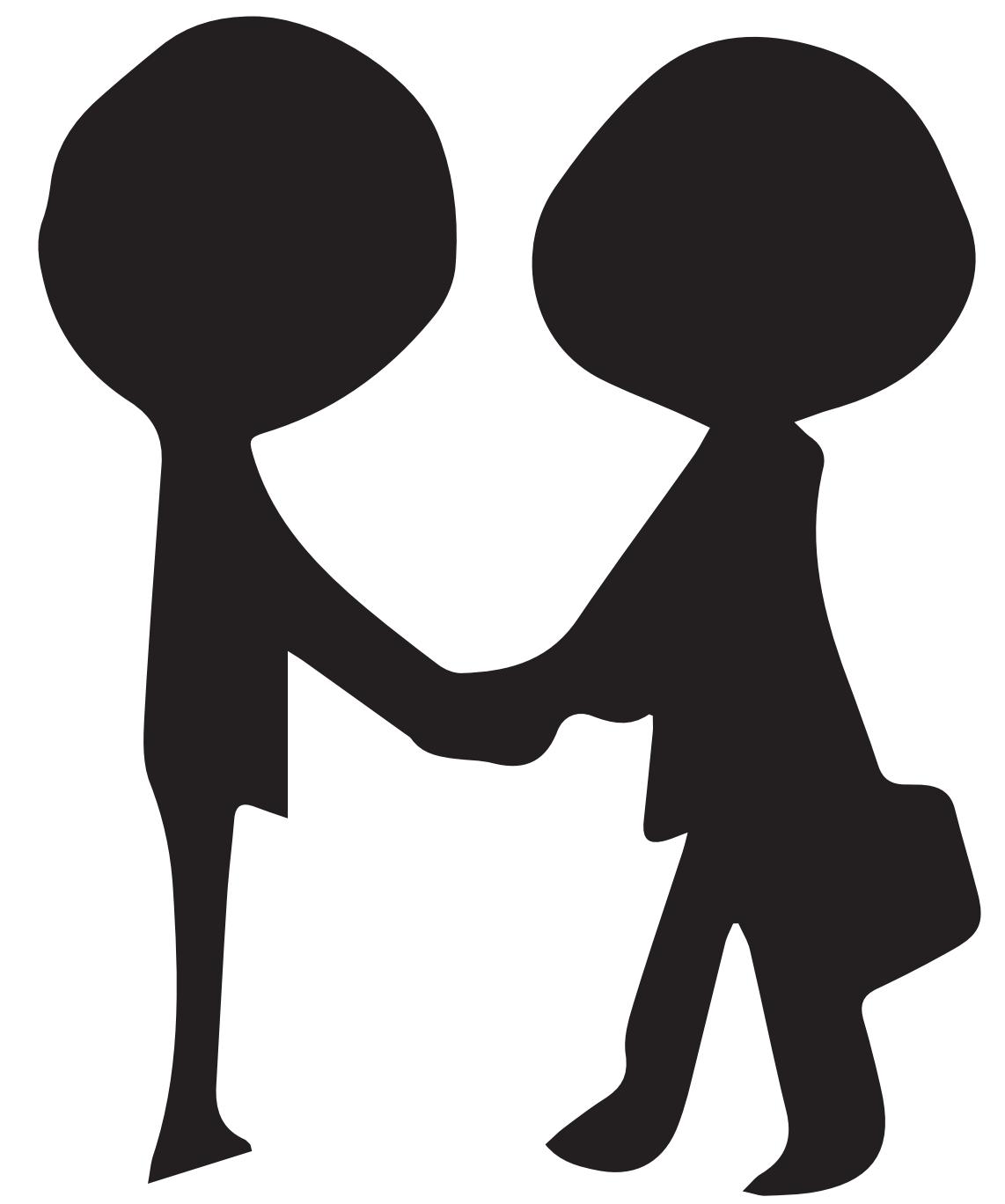
*Shiny*

[www.rstudio.com](http://www.rstudio.com)

*Shiny*

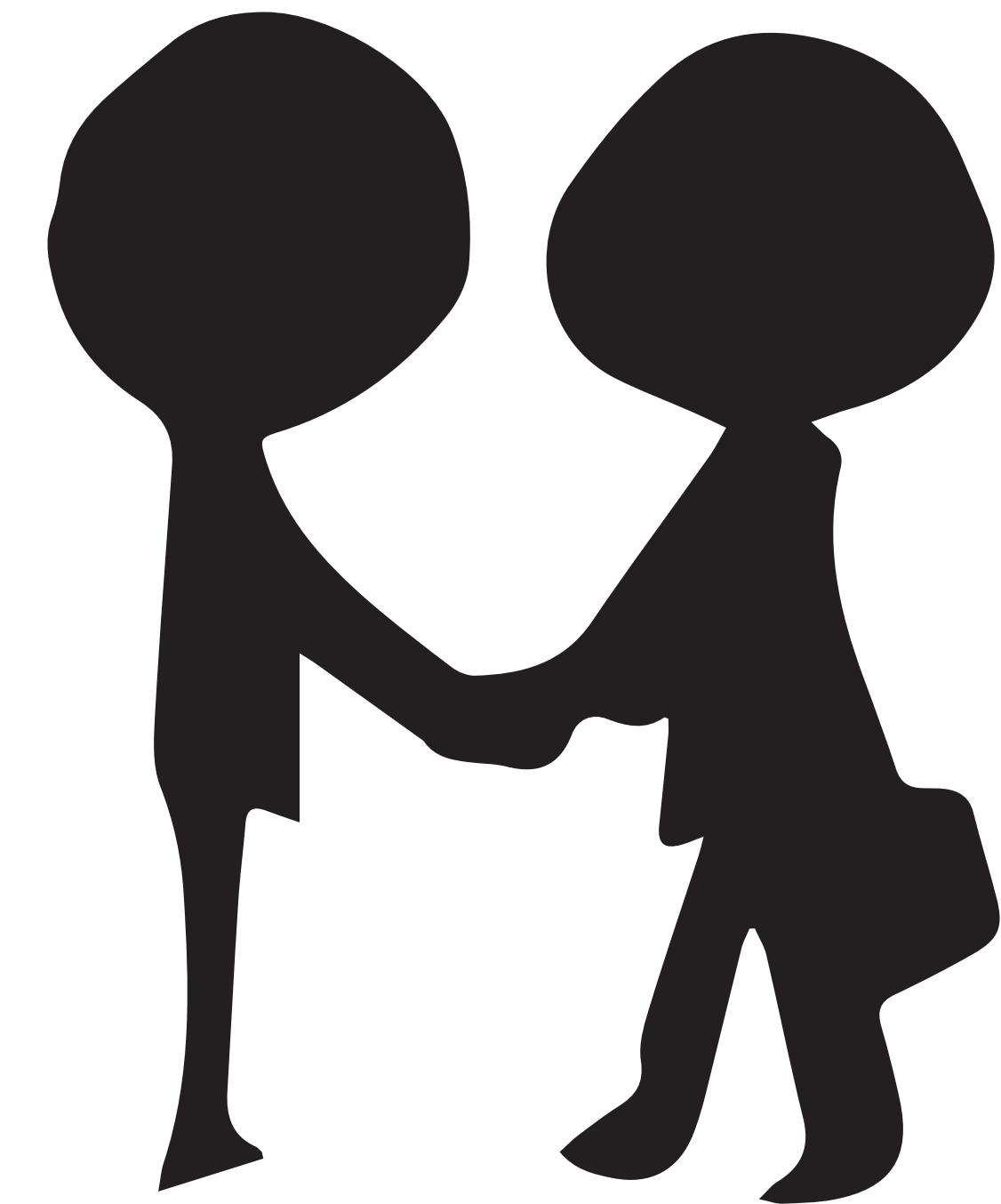
**I hate it.**

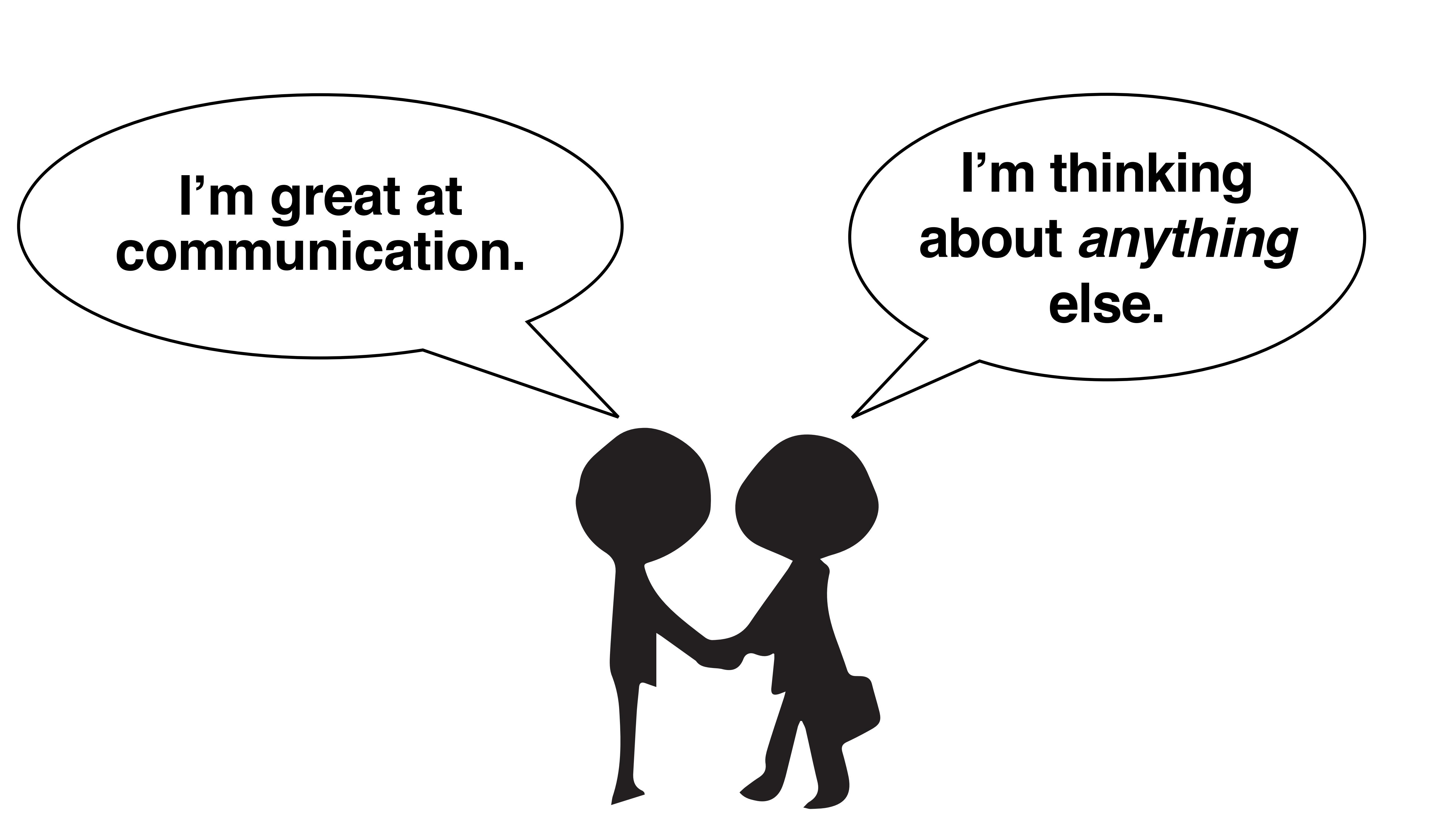
i hate it.





**I'm great at  
communication.**



A black and white illustration showing two stylized human figures from the waist up, facing each other and shaking hands. They have large, dark, circular heads and simple, thin bodies. Above them are two speech bubbles. The bubble on the left contains the text "I'm great at communication." and the bubble on the right contains the text "I'm thinking about anything else." Both speech bubbles have a thin black outline.

**I'm great at communication.**

**I'm thinking  
about *anything*  
else.**

**Designing for people  
is hard.**

**GREG SWINEHART / RSTUDIO, PBC**

***“How can we make Shiny  
apps look better?”***

#noHTML    #noCSS

# **Where to start?**

- 1. Look**
- 2. Functionality**

B

B

**ES** *Club*

# **Where to start?**

- 1. Look**
- 2. Functionality**

# Gestalt Psychology

How we process visual information

# 1. Proximity

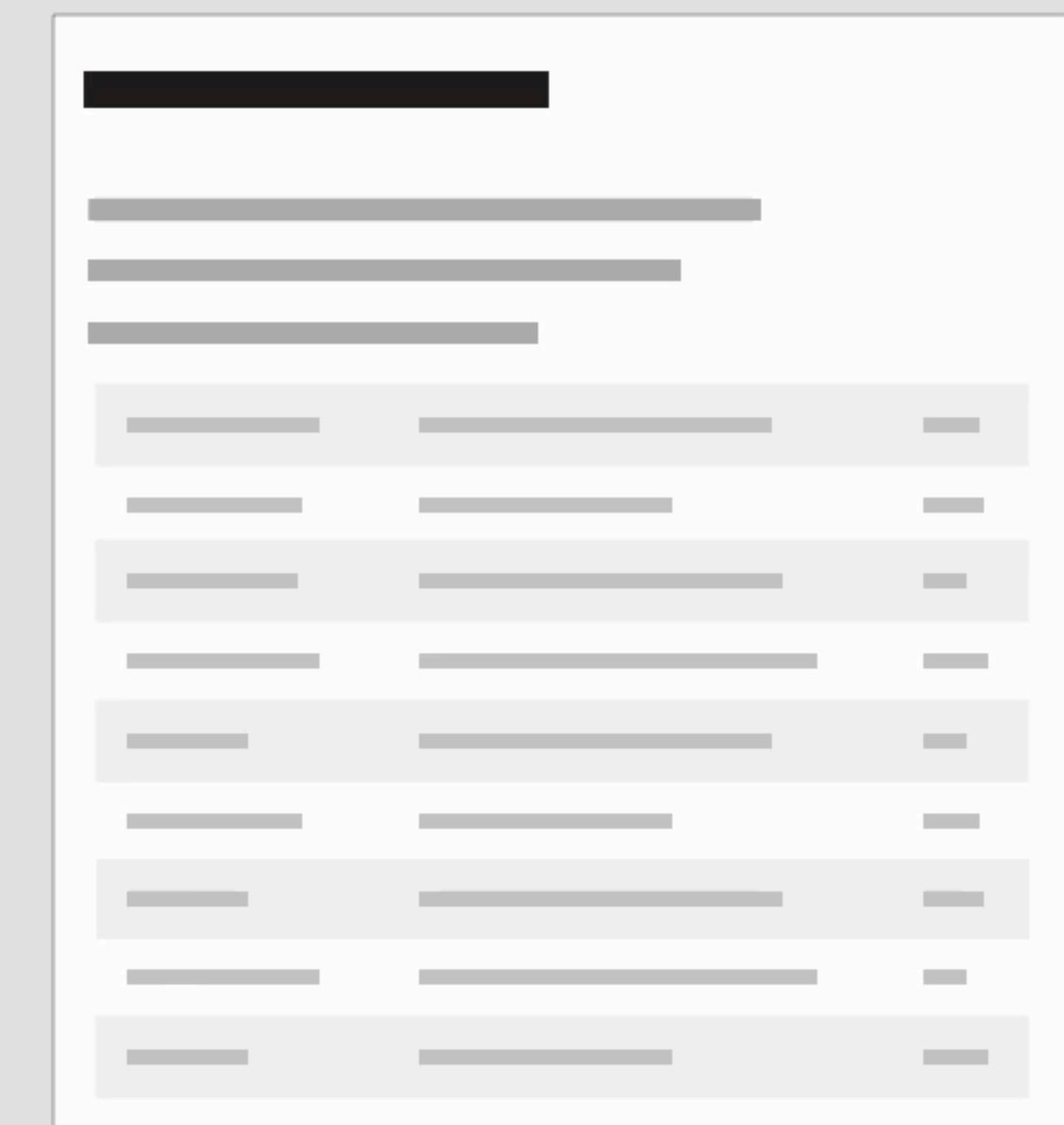
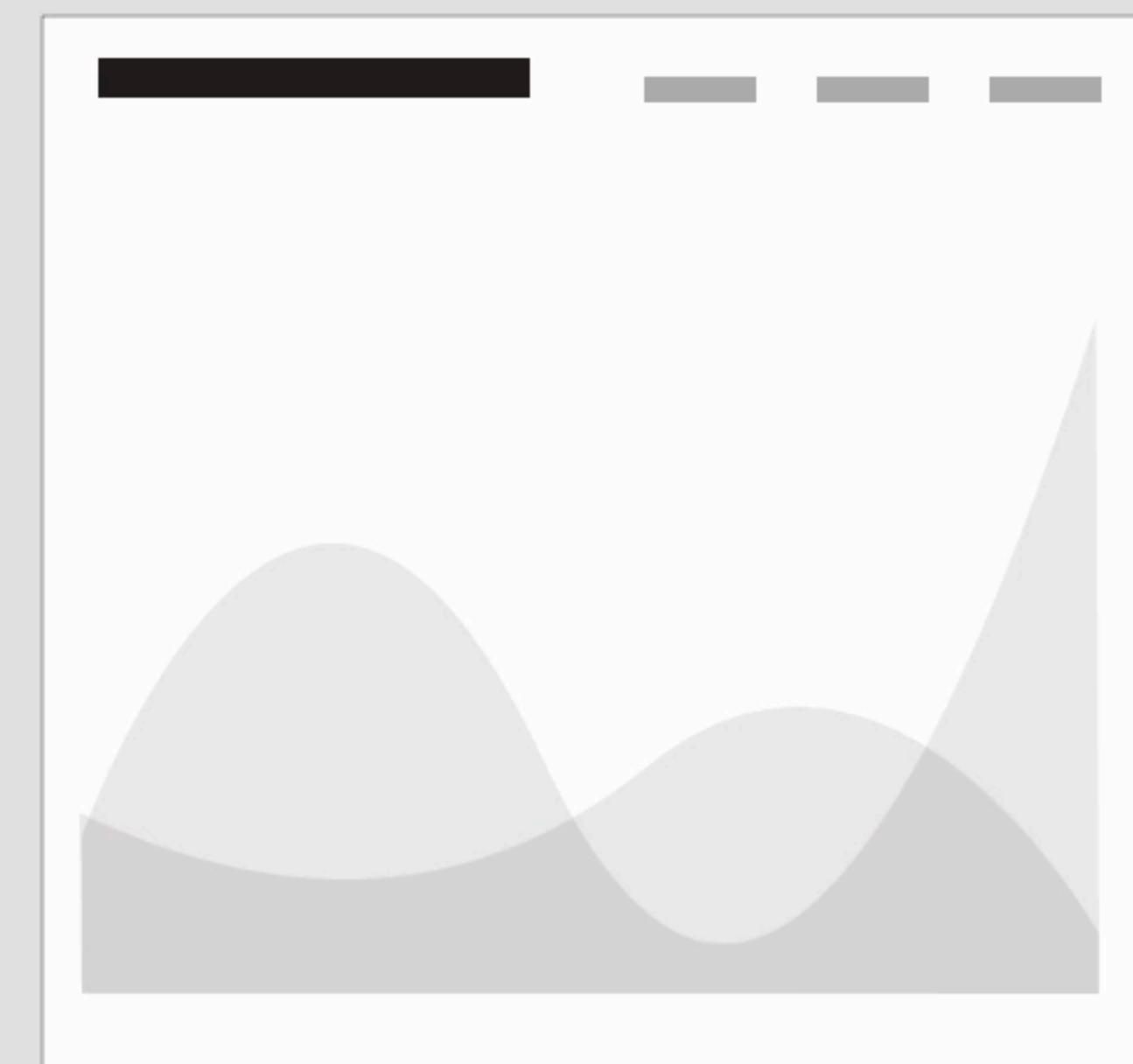
Users will mentally group together objects that are spatially close to each other.





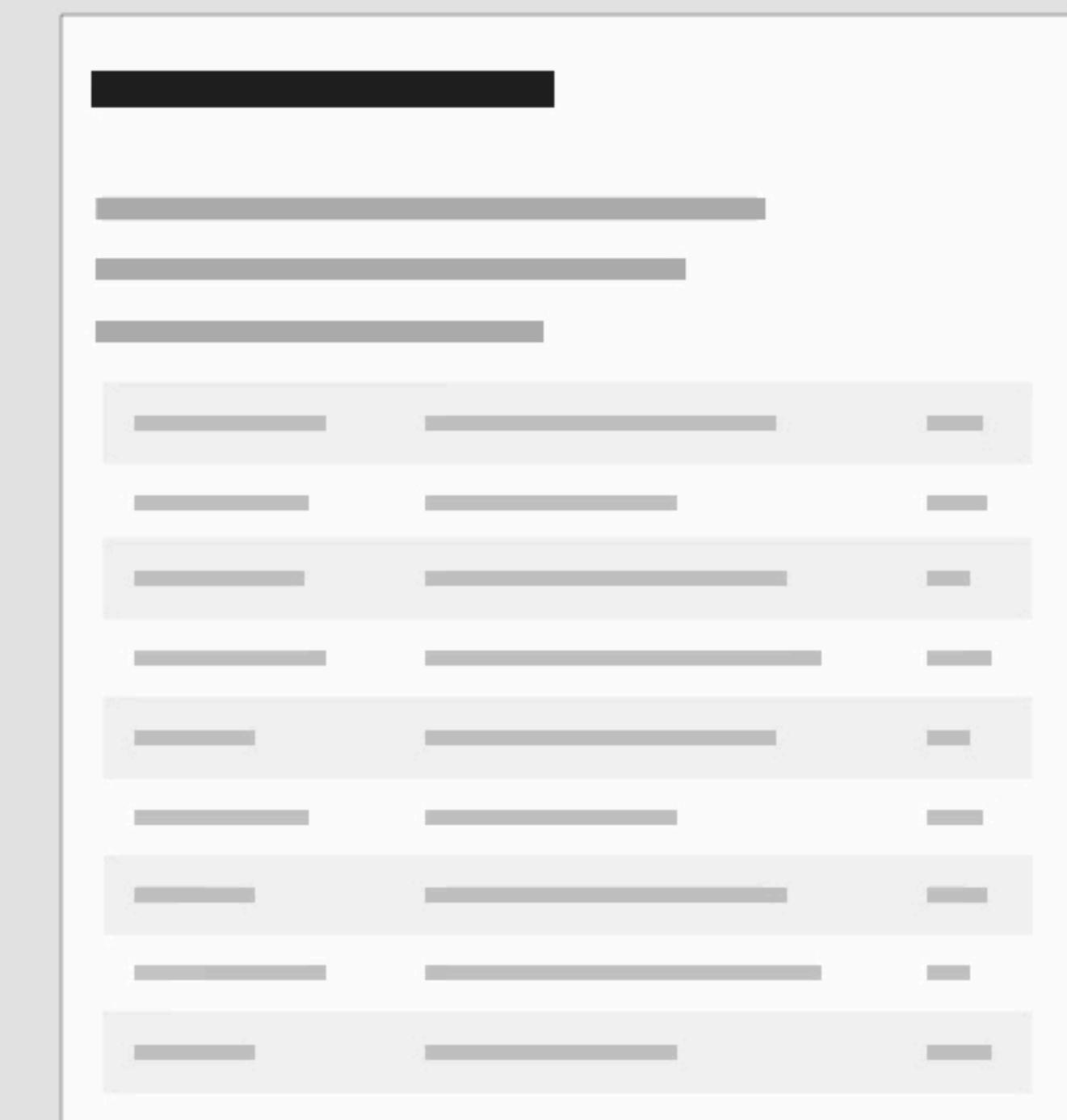
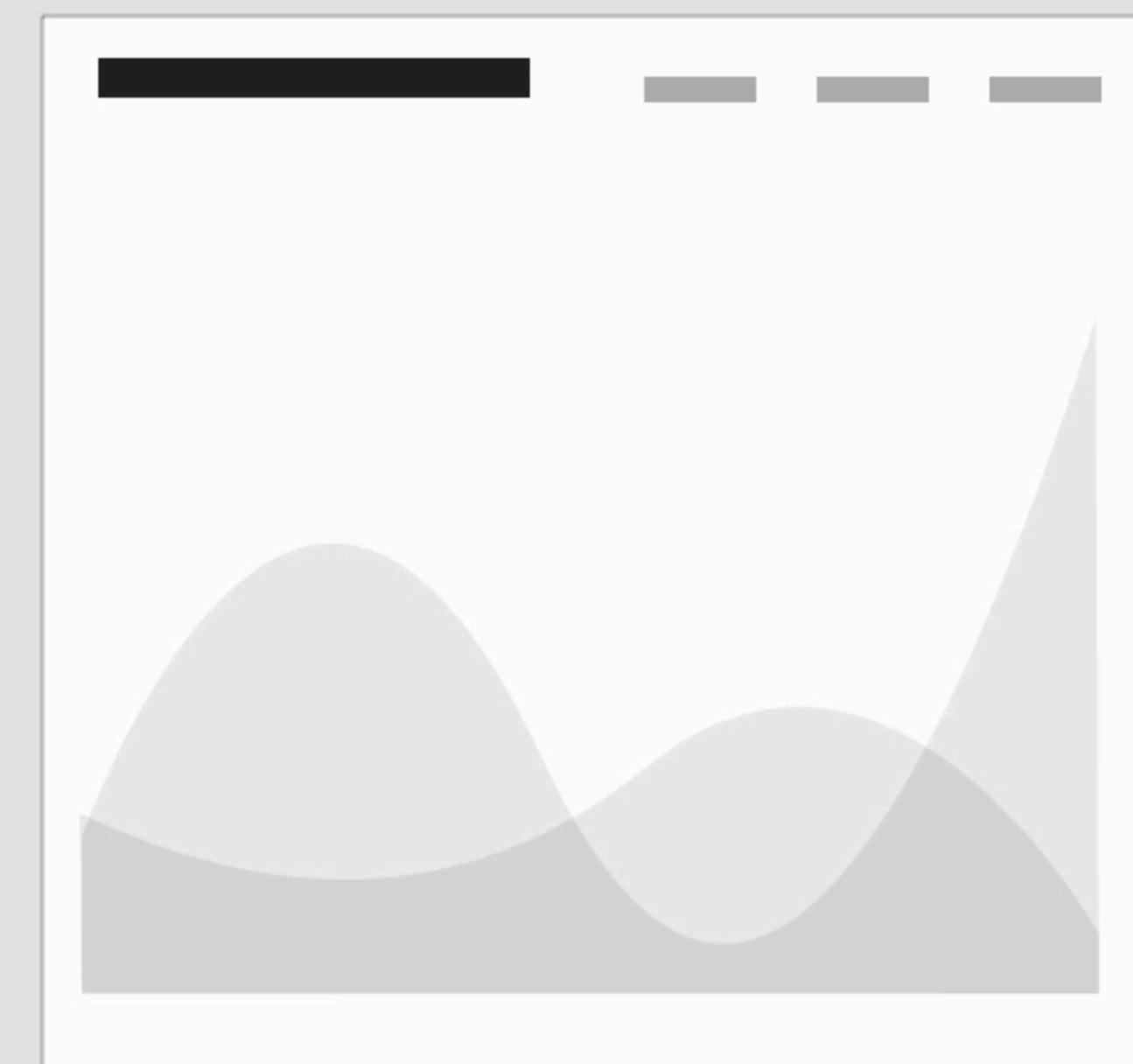


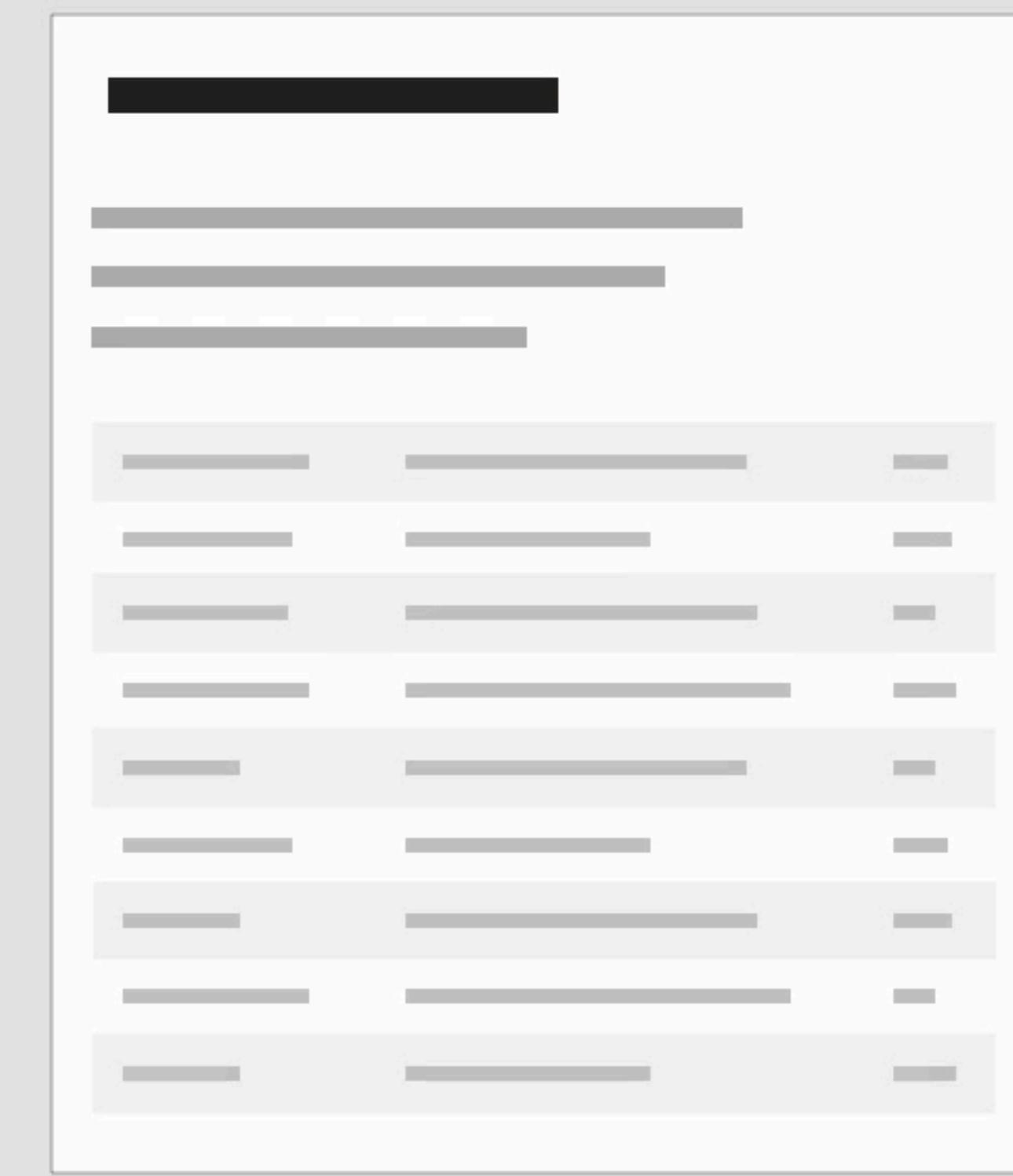
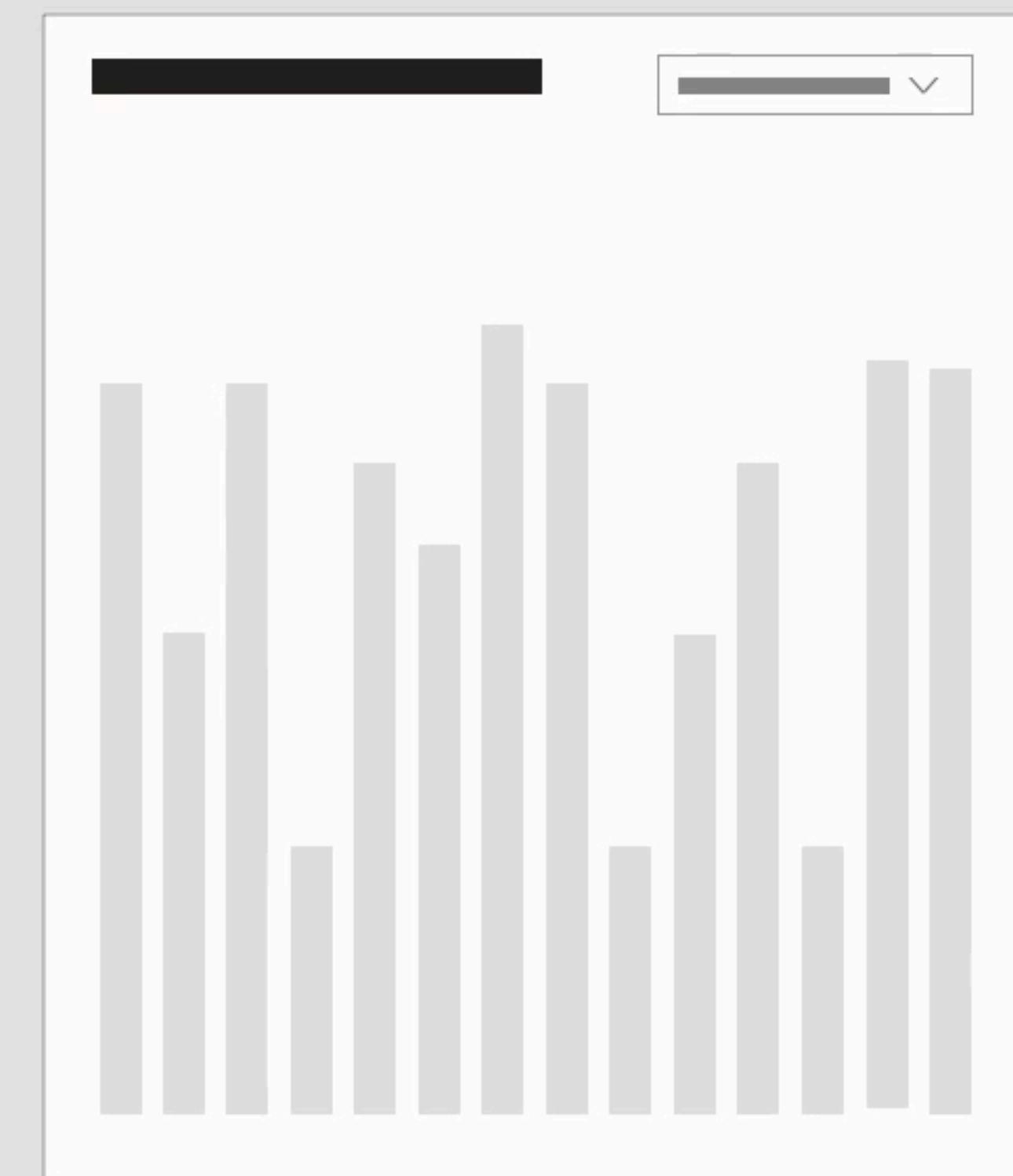
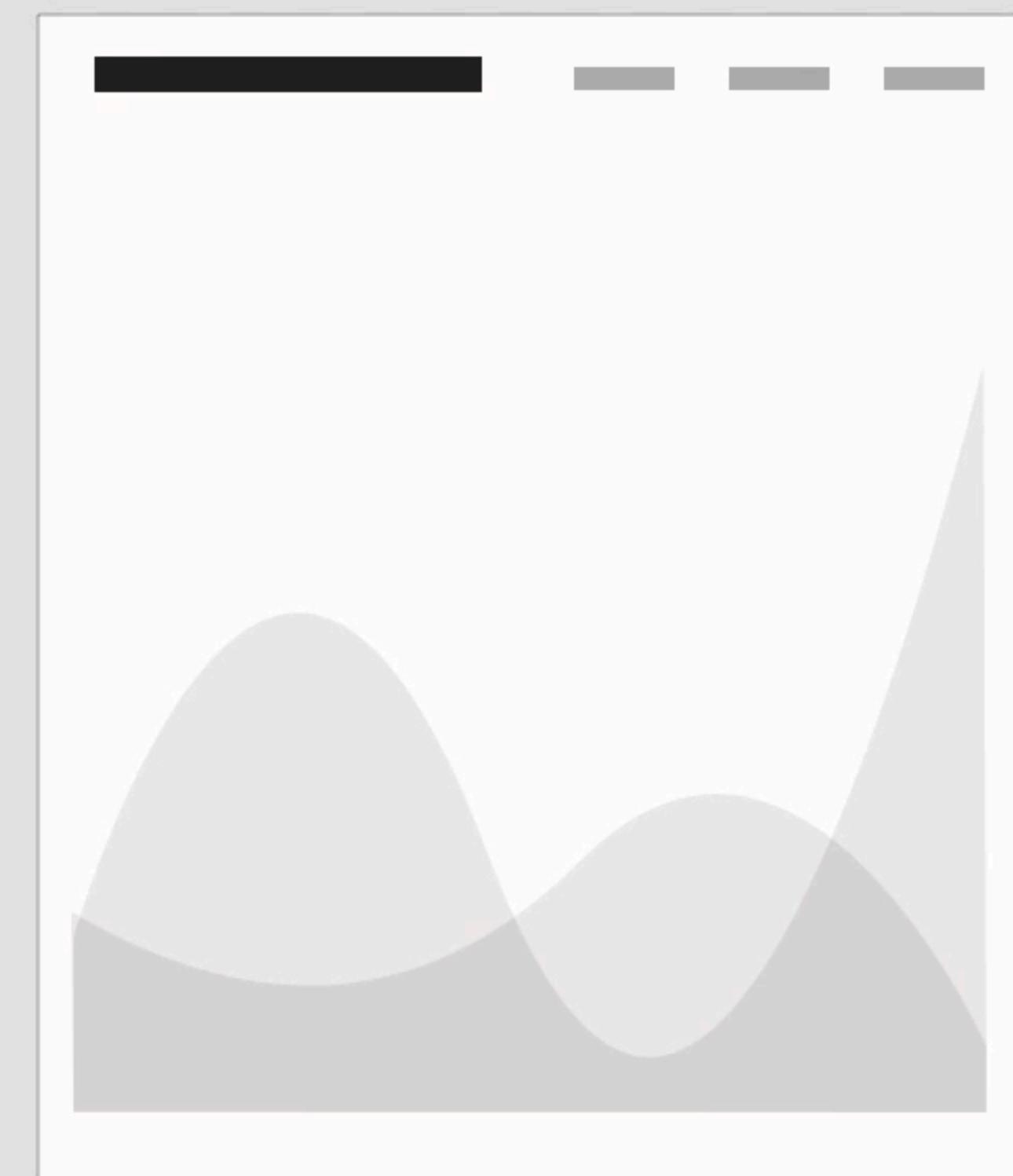


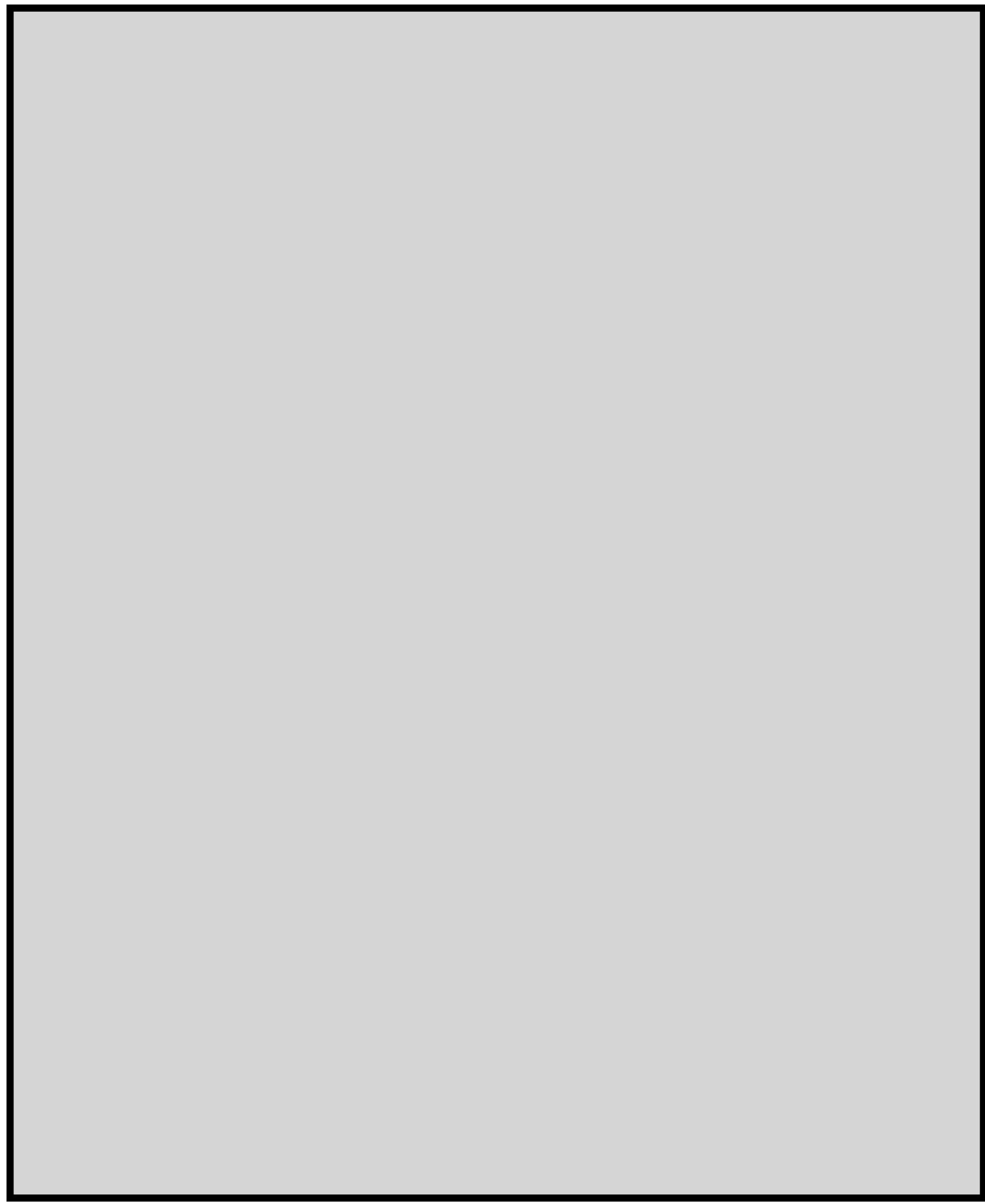


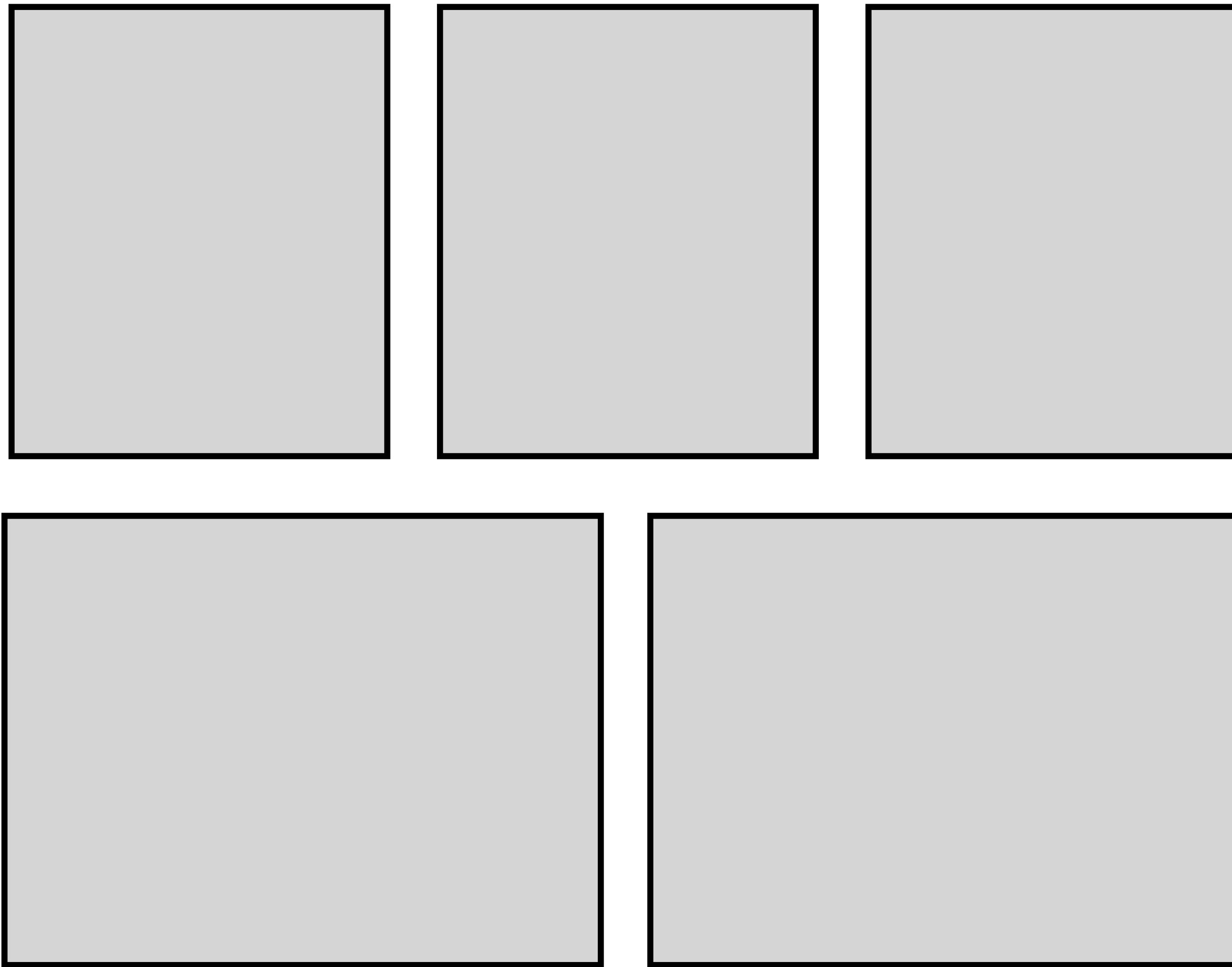
## 2. Order

Things that are aligned and symmetrical  
are more easily processed.



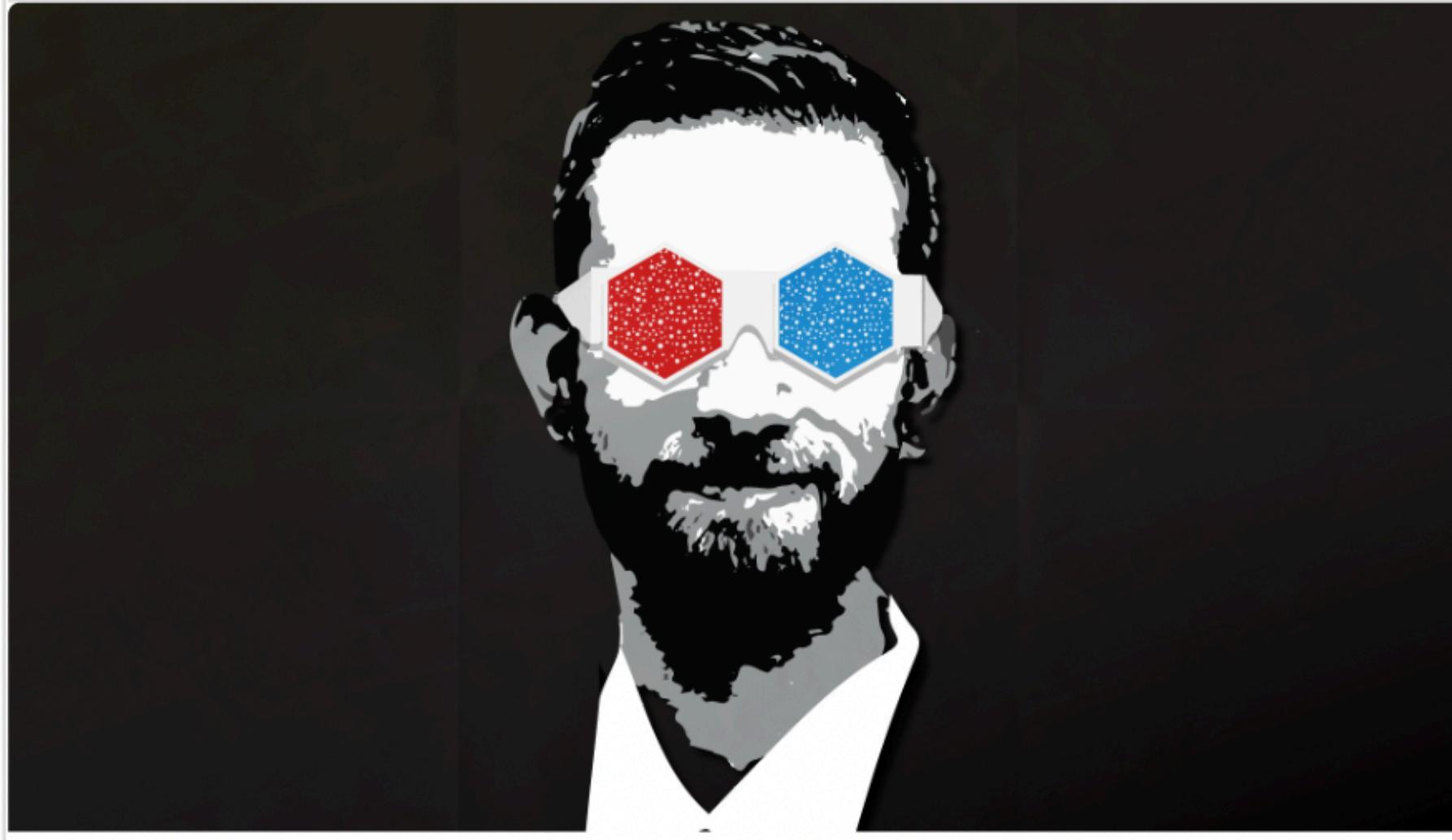








## Header Title



### Big text here

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Last updated 3 mins ago

```
card(  
  card_header(  
    "Header Title"  
  card_plot_output("hadley"),  
  card_body(  
    h5("Big text here"),  
    p("Some quick example text to  
      build on the card title and  
      make up the bulk of the card's  
      content."),  
    actionButton("go", "Go  
      somewhere"),  
  card_footer(  
    "Last updated 3 mins ago"  
)  
)
```

Header Title



**Big text here**

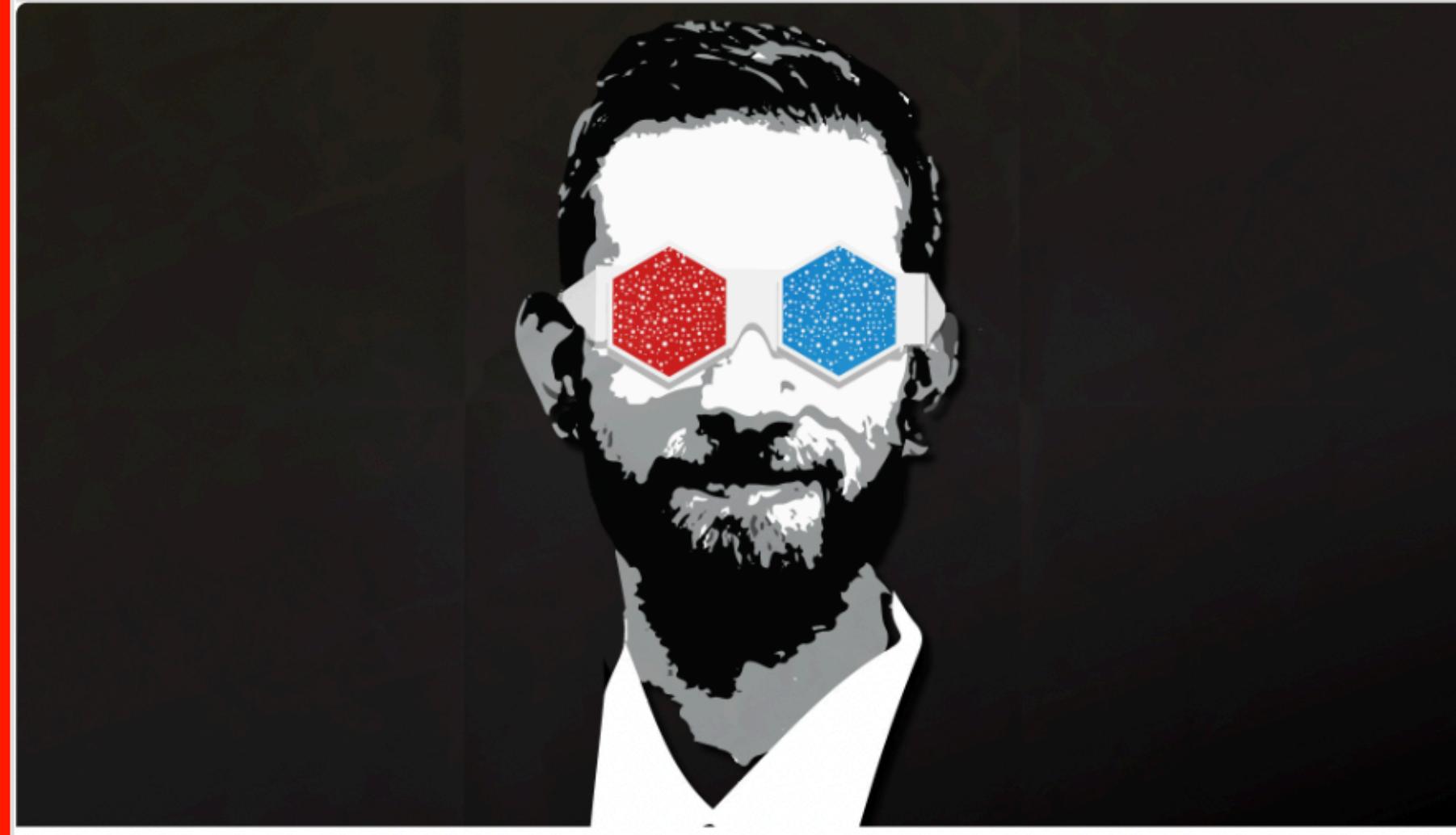
Some quick example text to build on the card title and make up the bulk of the card's content.

**Go somewhere**

Last updated 3 mins ago

```
card(  
  card_header(  
    "Header Title"  
  cara_plot_output("naaley"),  
  card_body(  
    h5("Big text here"),  
    p("Some quick example text to  
      build on the card title and  
      make up the bulk of the card's  
      content."),  
    actionButton("go", "Go  
      somewhere"),  
  card_footer(  
    "Last updated 3 mins ago"  
)  
)
```

## Header Title



**Big text here**

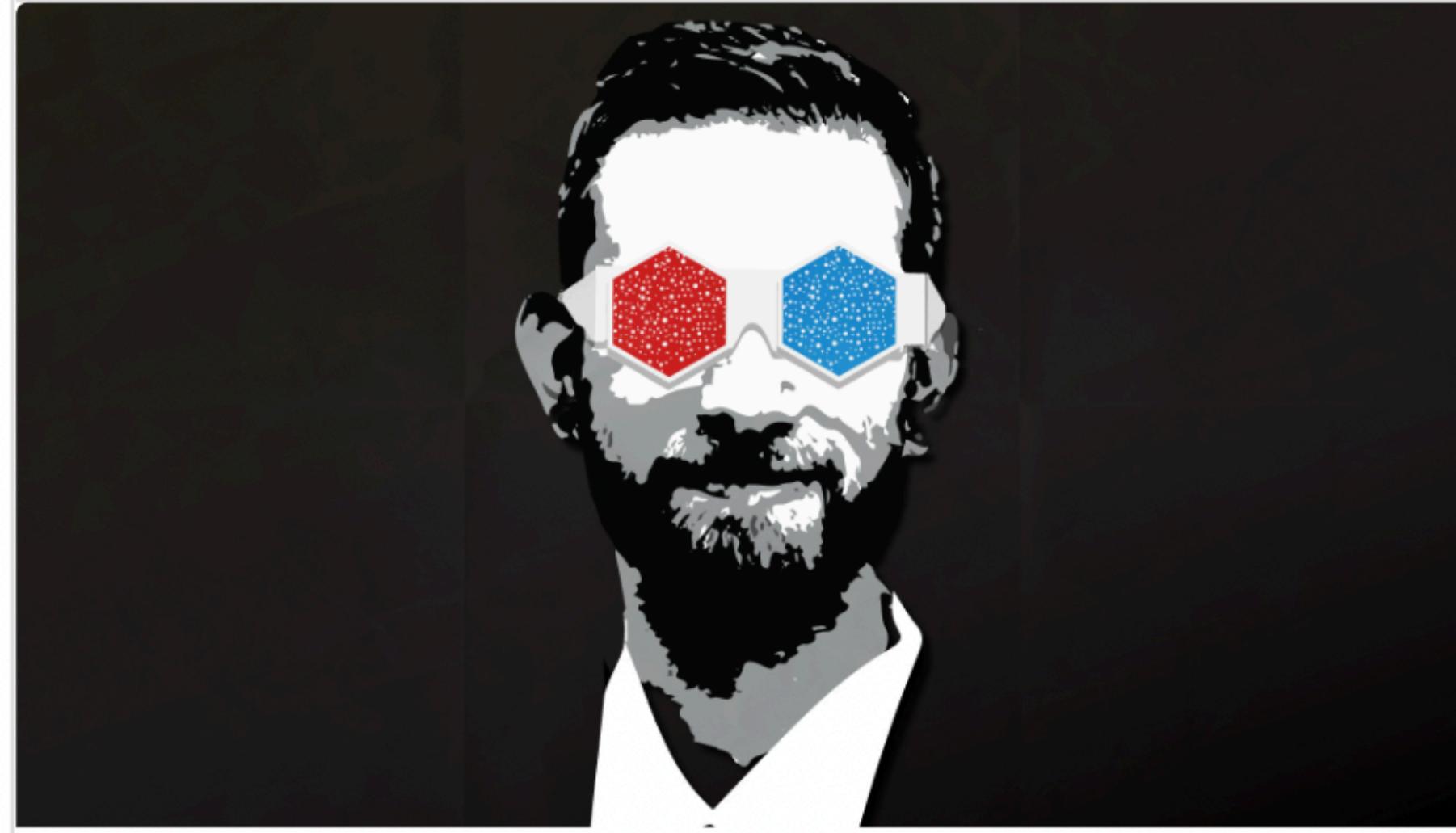
Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Last updated 3 mins ago

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card(  
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    actionButton("go", "Go  
      somewhere"),  
)  
  card_footer(  
    "Last updated 3 mins ago"  
)  
)
```

## Header Title



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Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Last updated 3 mins ago

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card(  
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    h5("Big text here"),  
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      build on the card title and  
      make up the bulk of the card's  
      content."),  
    actionButton("go", "Go  
      somewhere"),  
  ).  
  card_footer(  
    "Last updated 3 mins ago"  
)
```

## Header Title



### Big text here

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Last updated 3 mins ago

## Header Title

Dropdown ▾

#	First	Last	Handle
---	-------	------	--------

1	Bill	Murray	@venkman
---	------	--------	----------

2	Dan	Aykroyd	@ray-stantz
---	-----	---------	-------------

3	Harold	Ramis	@egon
---	--------	-------	-------

4	Sigourney	Weaver	@dana
---	-----------	--------	-------

5	Ernie	Hudson	@winston
---	-------	--------	----------

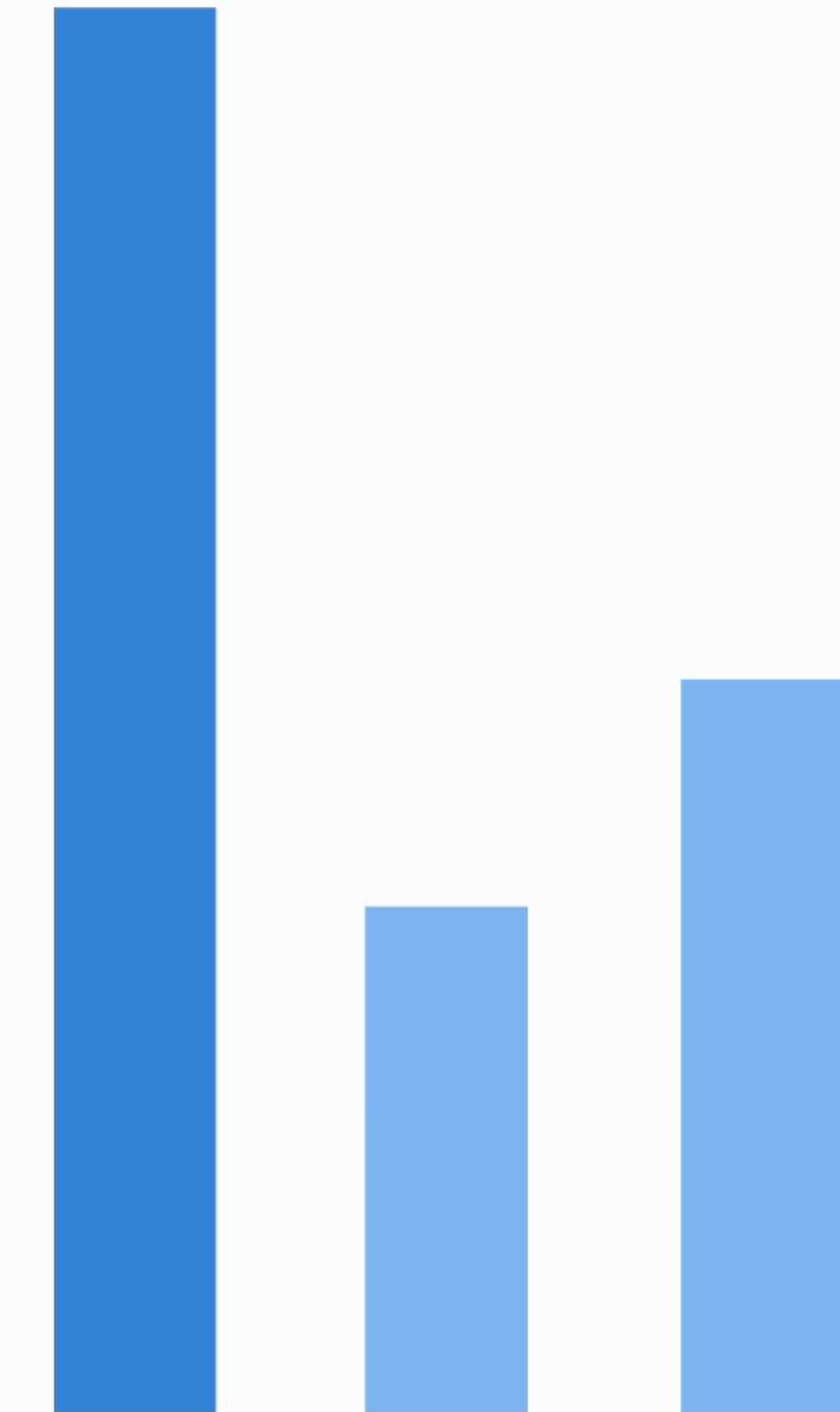
5	Rick	Moranis	@louis
---	------	---------	--------

6	Annie	Potts	@bugeyes
---	-------	-------	----------

7	Stay	Puffed	@marshmallow
---	------	--------	--------------

## Header Title

Week Month Year



# **Dashboards Dashboards Dashboards**

- **flexdashboard**
- **shiny dashboard / bs4dash**

# **3. Organize for your users**

Every user doesn't need to see every thing.

**Origin**  **Destination**

- Akron Canton Regional Airport (CAK)
- Albany Intl (ALB)
- Albuquerque International Sunport (ABQ)
- Asheville Regional Airport (AVL)

**Carrier****Flight time****Weather**

A TOTAL OF  
**22529 flights**

Across 95 destinations  
On 15 different carriers



AVERAGE DEPARTURE

**31 mins late**

53.1% of flights depart late



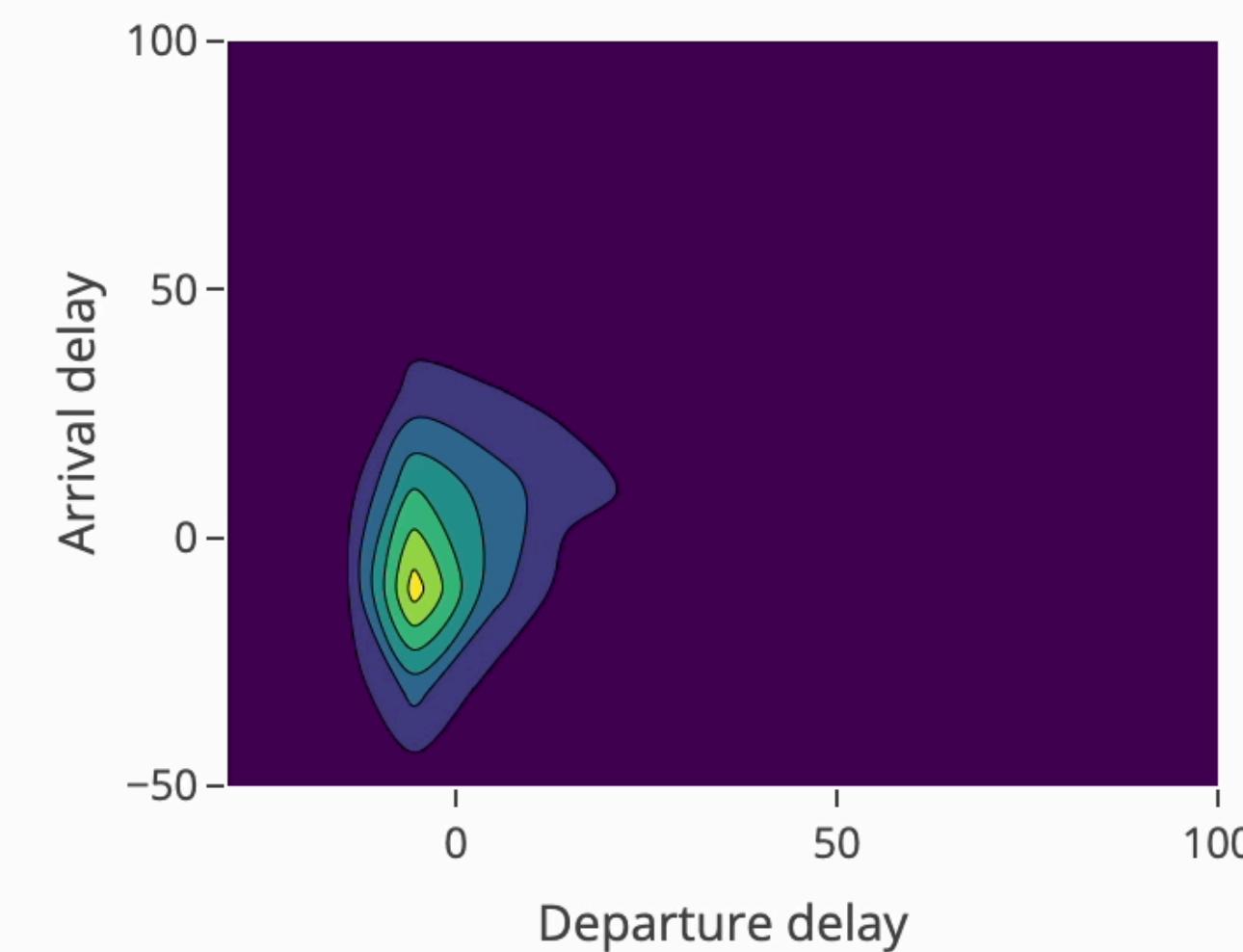
AVERAGE ARRIVAL

**34 mins late**

60.1% of flights arrive late

**Flight paths**

Marker areas are proportional to mean arrival delay

**Arrival vs departure delay** Summarize

Number of flights

- 3000
- 2000
- 1000

**Arrival delay** Overall  Over time

## Origin



EWR

JFK



LGA

## Destination



## Search

 Akron Canton Regional Airport (CAK) Albany Intl (ALB) Albuquerque International Sunport (ABQ) Asheville Regional Airport (AVL)

## Carrier



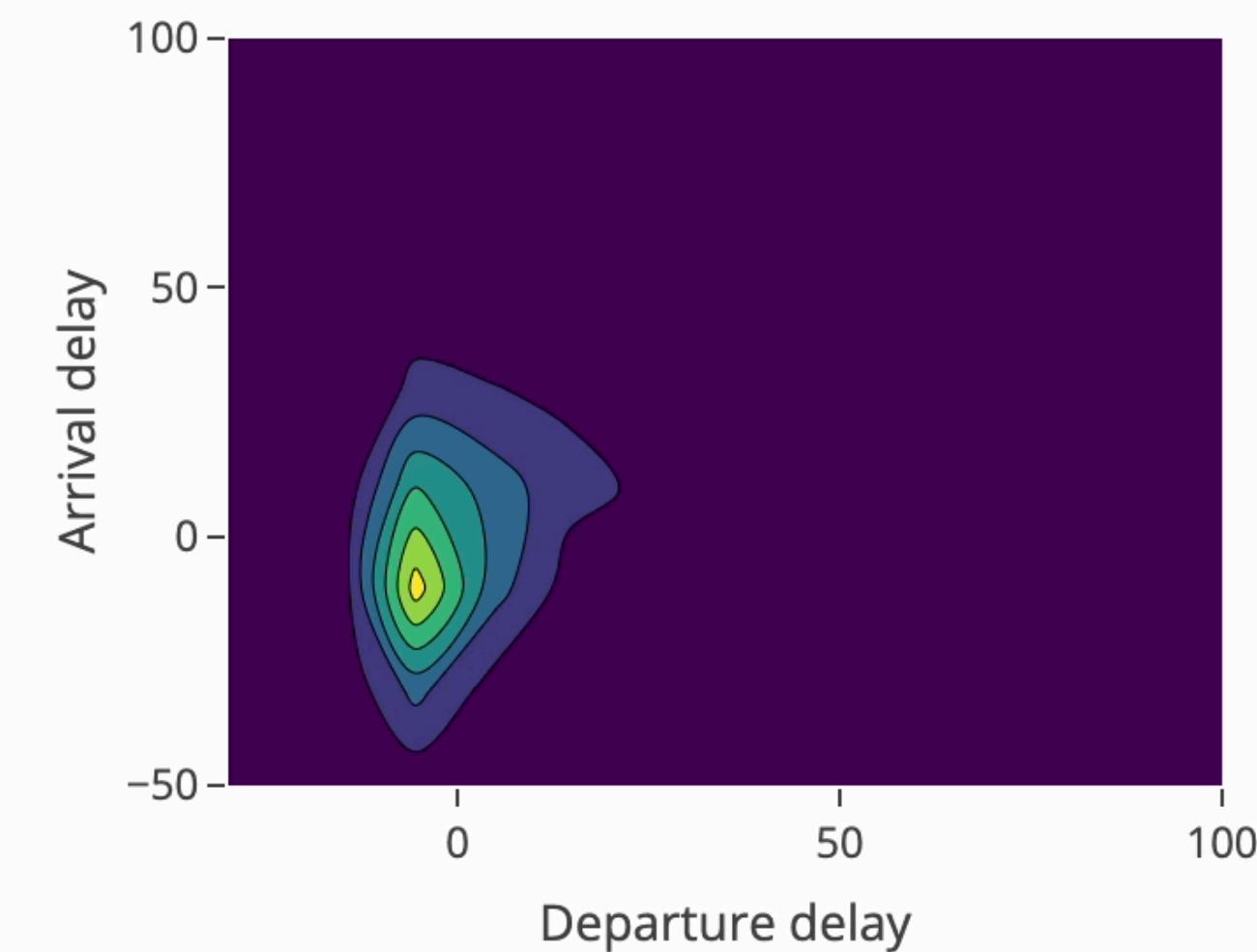
## Flight time



## Weather

**Flight paths**

Marker areas are proportional to mean arrival delay

**Arrival vs departure delay** Summarize**Arrival delay**

Overall Over time

Origin ^

Reset

EWR JFK

Destination ^

Clear all

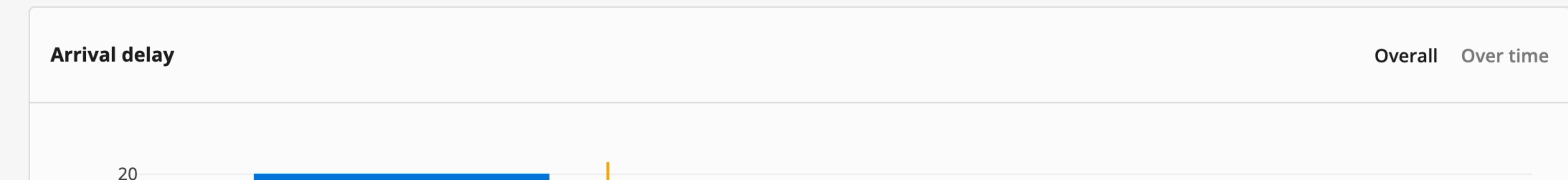
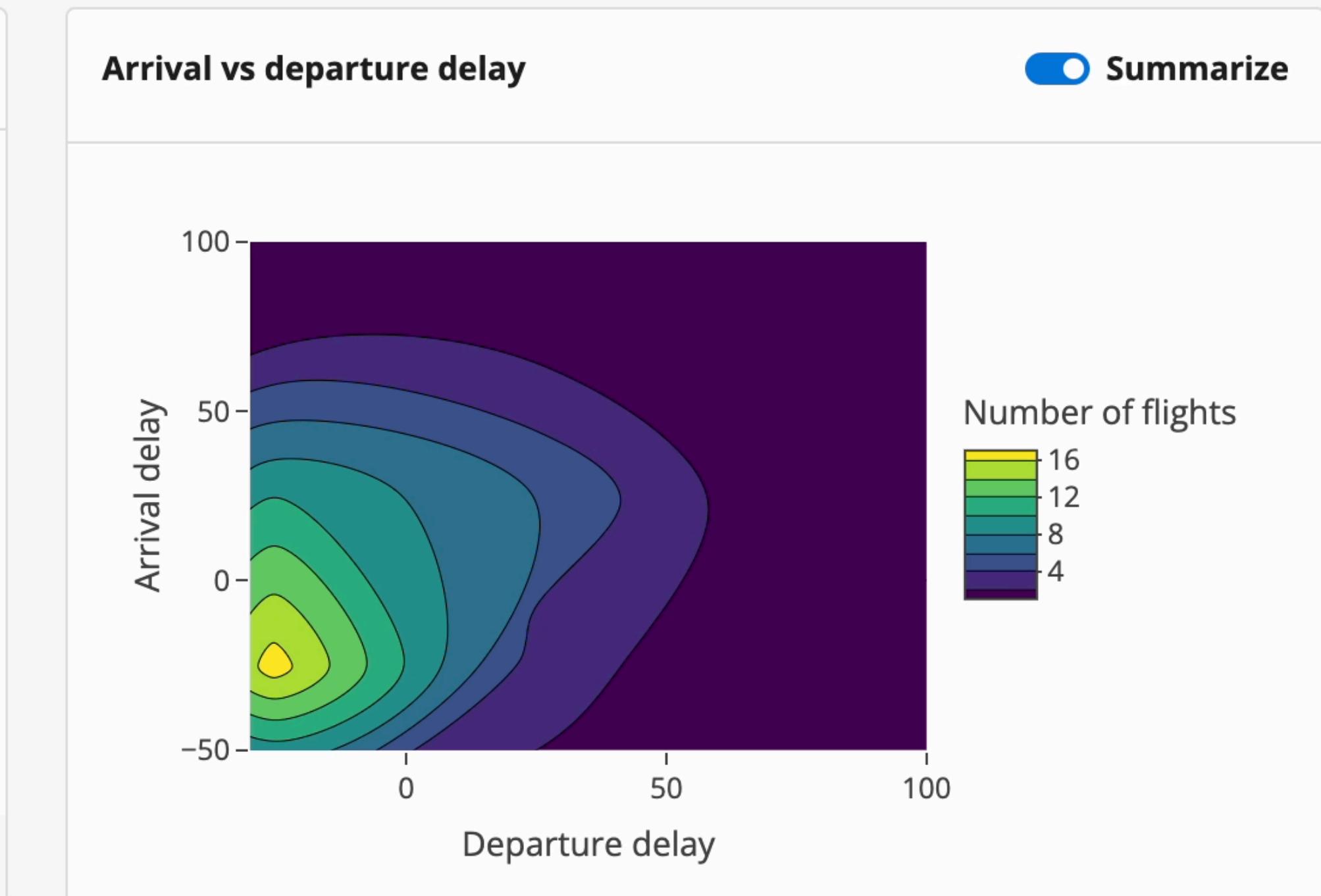
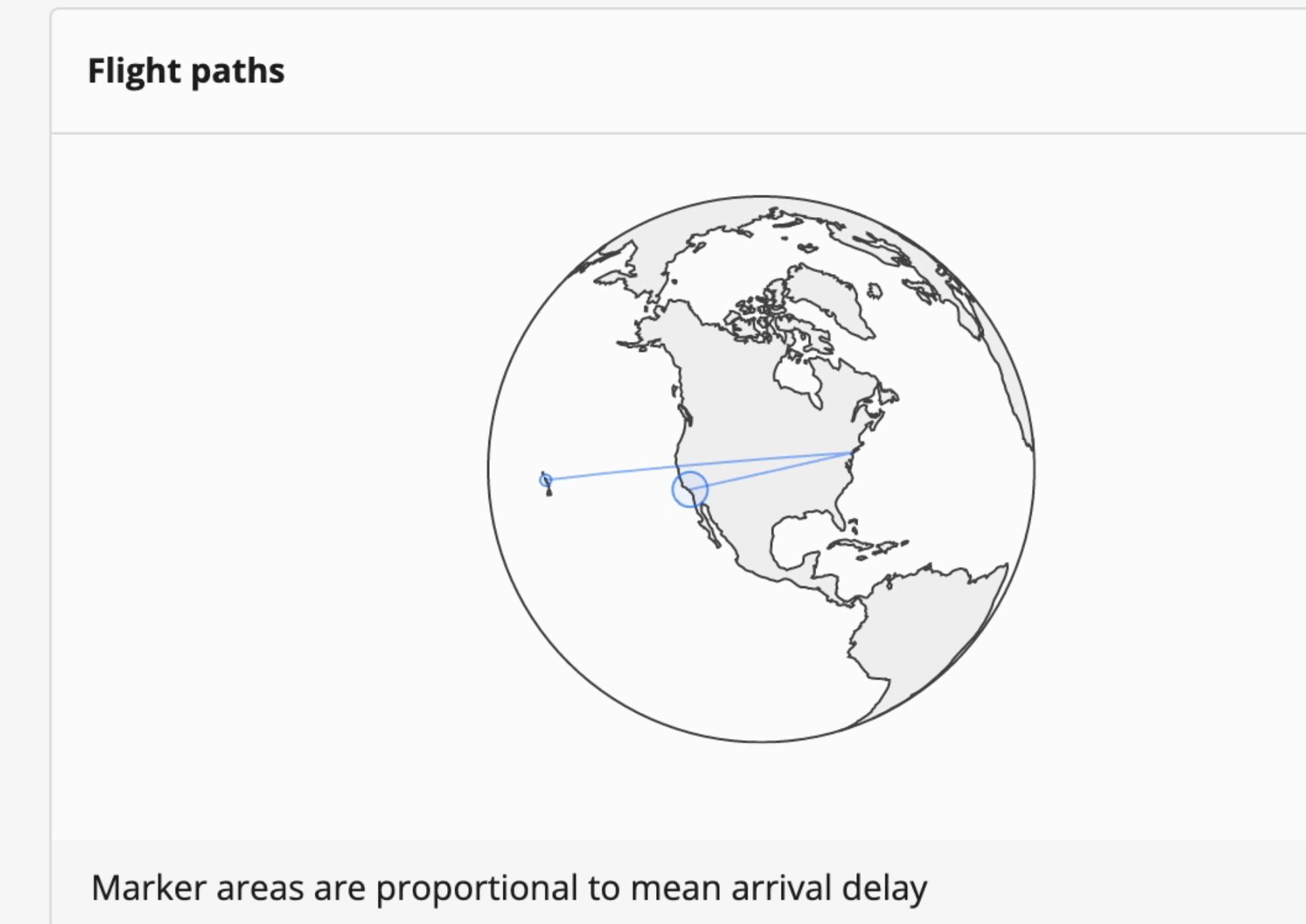
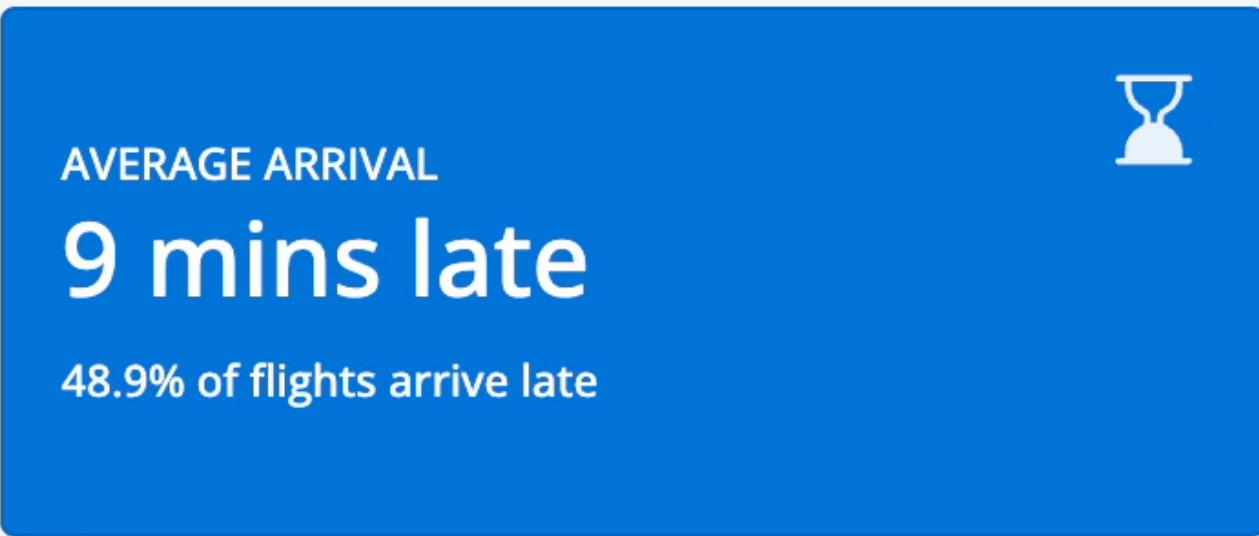
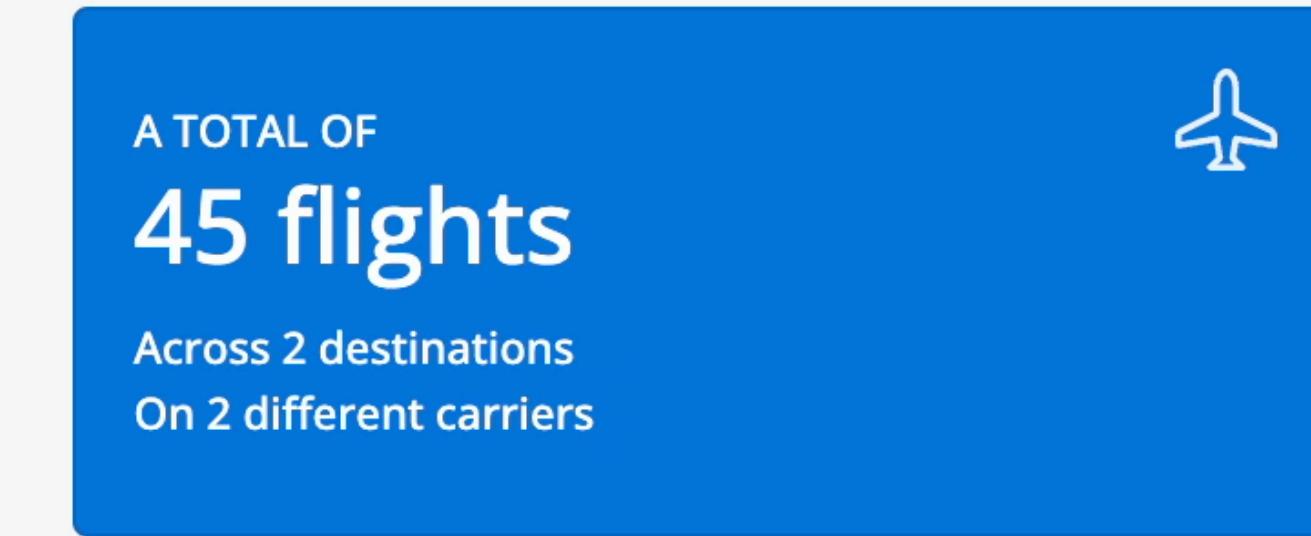
Search

- Honolulu Intl (HNL)
- Bob Hope (BUR)
- Albuquerque International Sunport (ABQ)
- Austin Bergstrom Intl (AUS)
- Baltimore Washington Intl (BWI)

Carrier ▼

Flight time ▼

Weather ▼



Origin ▾

Destination ▾

Carrier ▾

Flight time ▾

Departure time



Arrival time



Date



Weather ▾

A TOTAL OF  
**35 flights**  
Across 2 destinations  
On 2 different carriers



AVERAGE DEPARTURE  
**15 mins late**

37.1% of flights depart late



AVERAGE ARRIVAL  
**11 mins late**

48.6% of flights arrive late

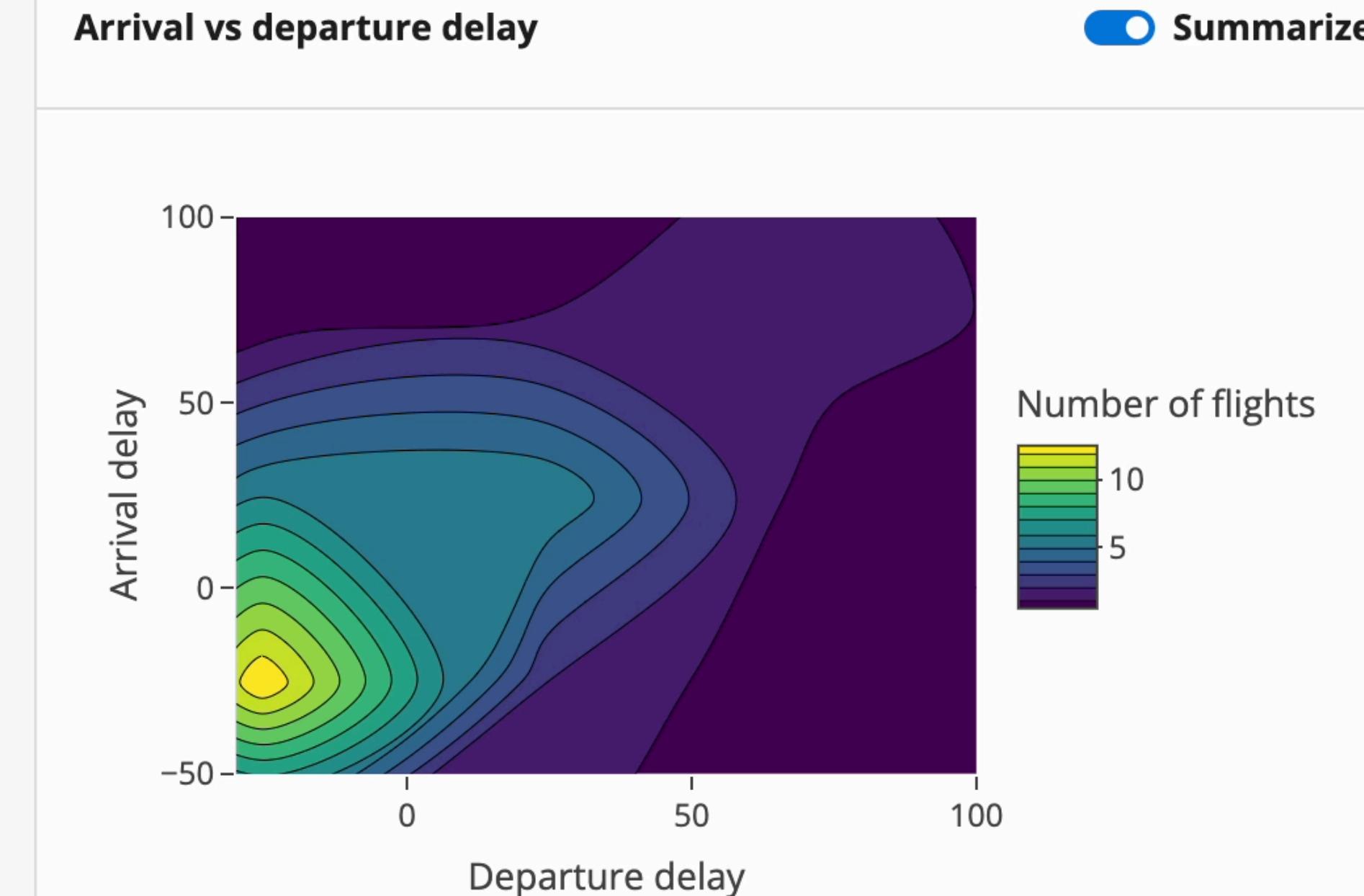


### Flight paths



Marker areas are proportional to mean arrival delay

### Arrival vs departure delay



Summarize

### Arrival delay

Overall Over time

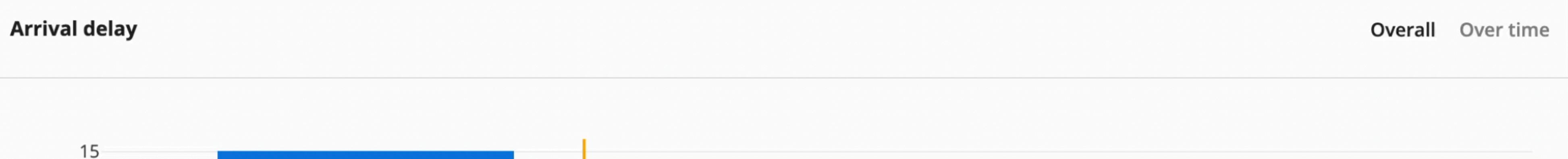
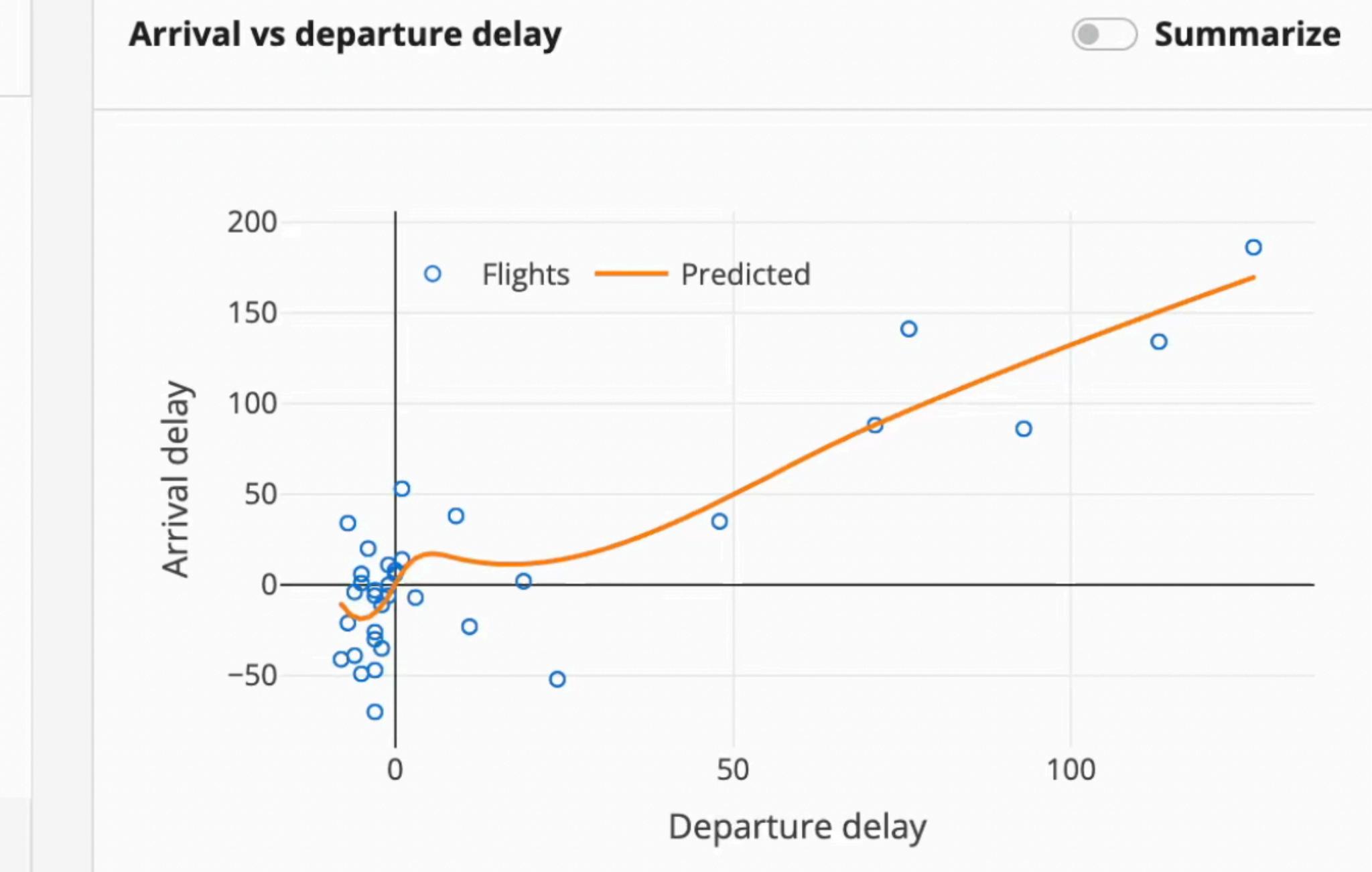
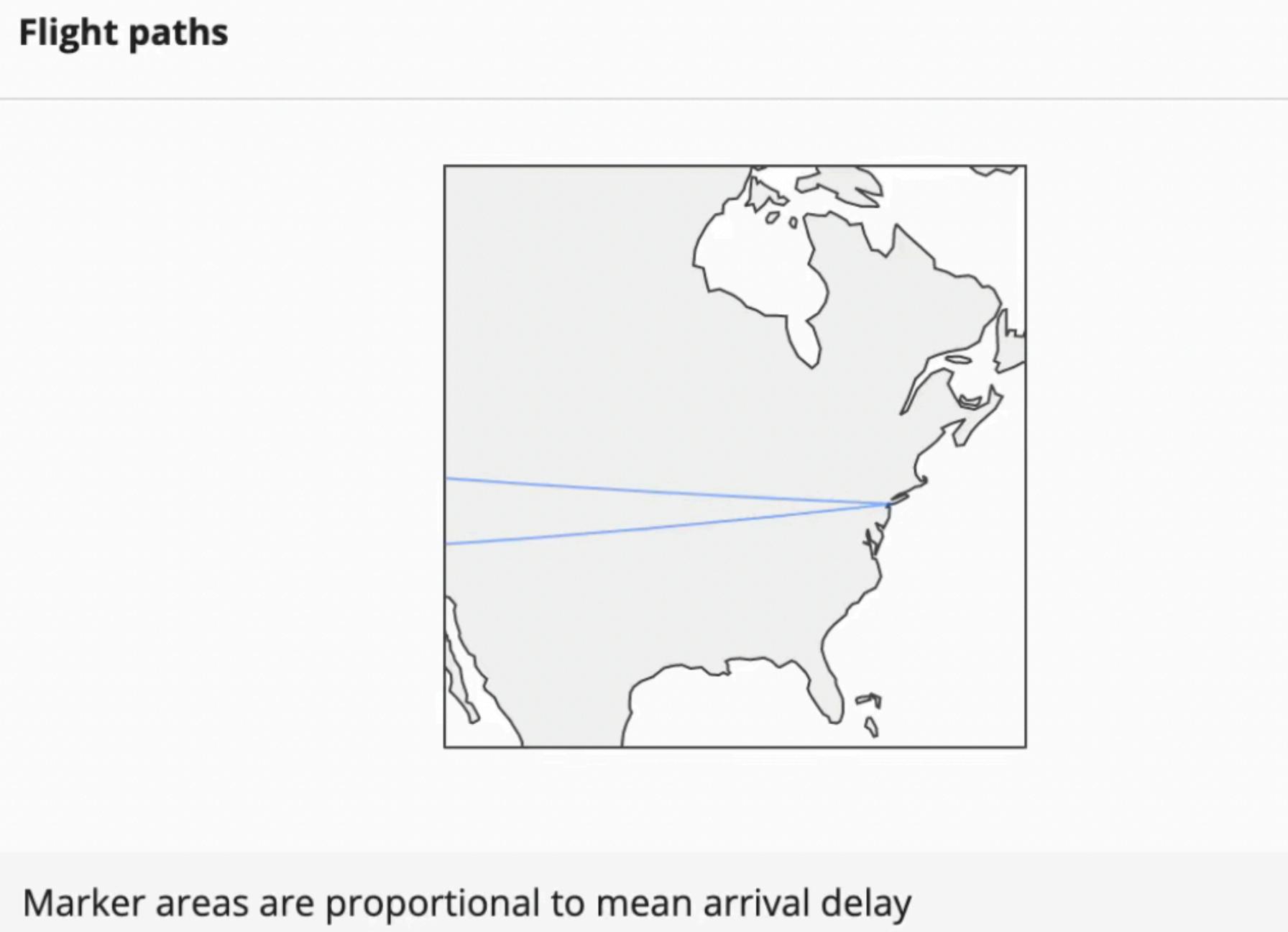
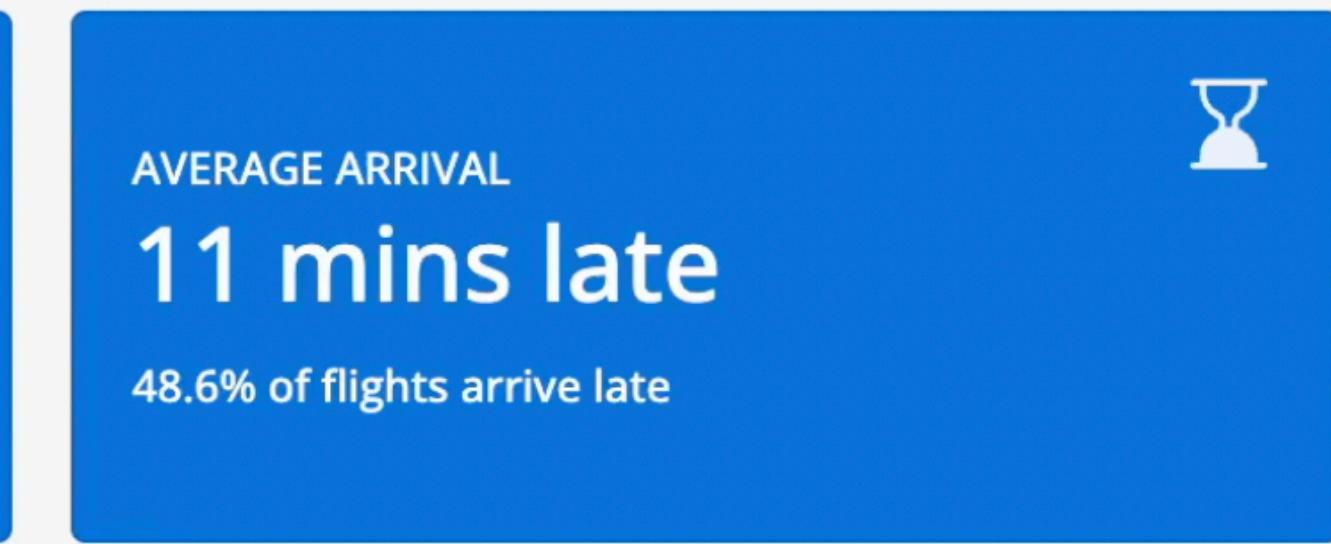
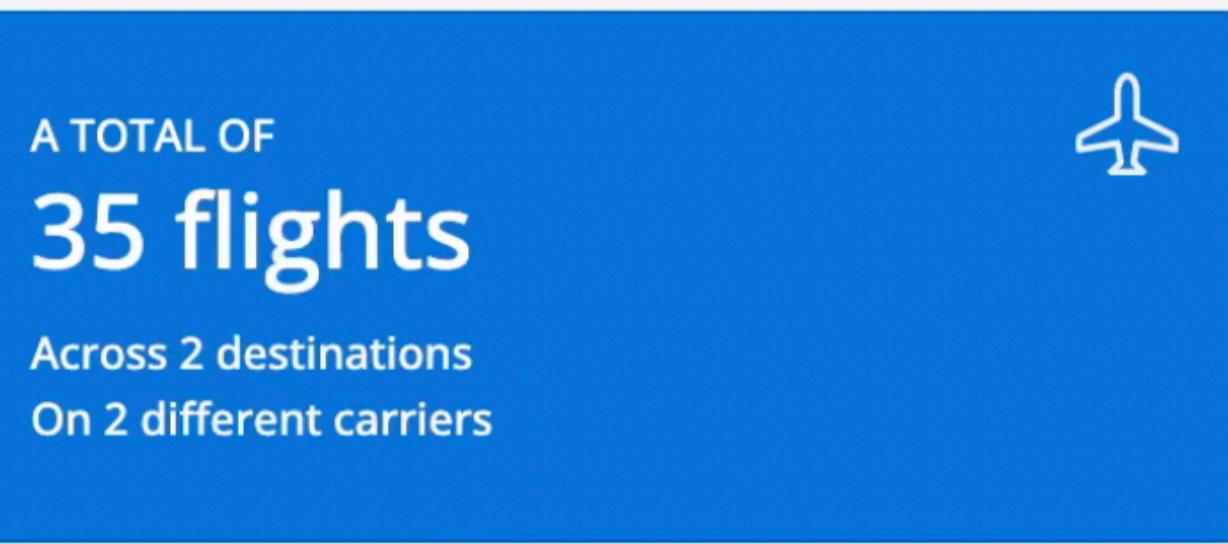
Origin ▾

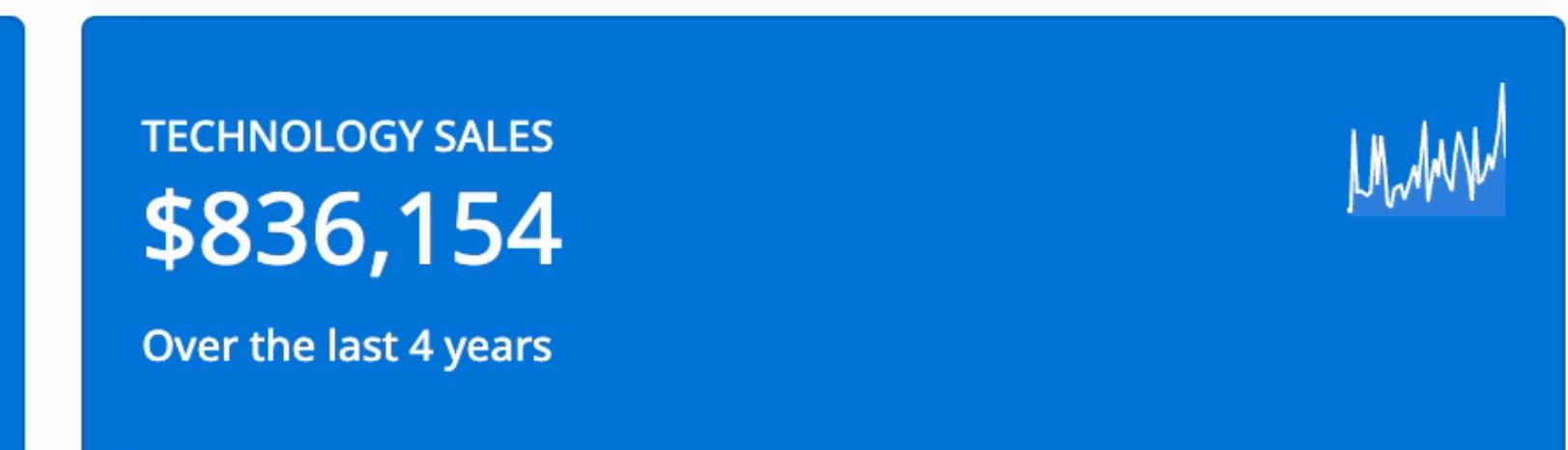
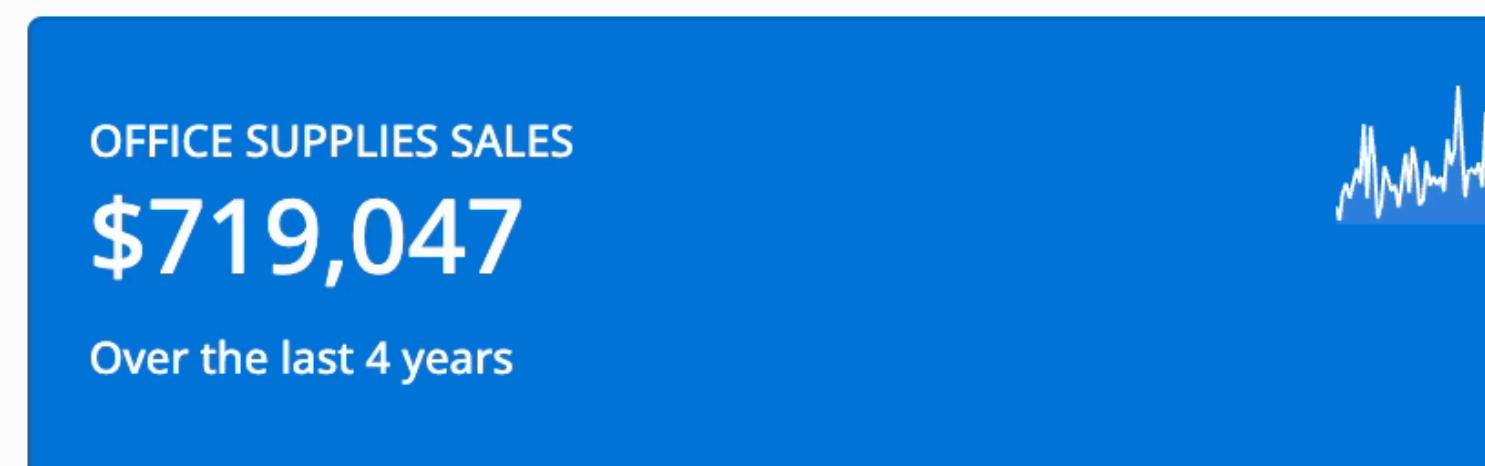
Destination ▾

Carrier ▾

Flight time ▾

Weather ▾

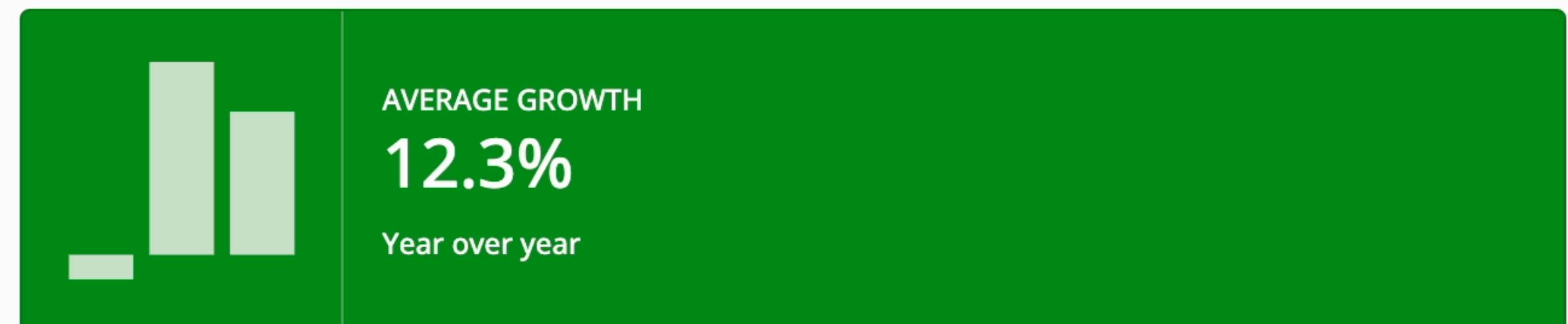




Monthly sales over time

Plot Table ▾

	category	↑↓ date_month	↑↓	Sales ↑↓
1	Furniture	2014-01-01		6242.525
2	Furniture	2014-02-01		1839.658
3	Furniture	2014-03-01		14573.956
4	Furniture	2014-04-01		7944.837
5	Furniture	2014-05-01		6912.787
6	Furniture	2014-06-01		13206.1256
7	Furniture	2014-07-01		10821.051
127.0.0.1:6716/#tab-7373-2	Furniture	2014-08-01		7320.3465



Monthly sales over time

Plot Table ▾

	category	↑↓ date_month	↑↓	Sales ↑↓
1	Furniture	2014-01-01		6242.525
2	Furniture	2014-02-01		1839.658
3	Furniture	2014-03-01		14573.956
4	Furniture	2014-04-01		7944.837
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6	Furniture	2014-06-01		13206.1256
7	Furniture	2014-07-01		10821.051
8	Furniture	2014-08-01		7320.3465

**This all comes from  
conversations with you.**

Greg Swinehart  
[greg@rstudio.com](mailto:greg@rstudio.com)

# Thank you!

To see these examples:

```
https://github.com/rstudio/bslib/tree/dev\(inst/examples
```

```
remotes::install_github("rstudio/bslib@dev")
remotes::install_github("rstudio/bsicons")
remotes::install_github("cpsievert/histoslider")
```