



U.S. FLIGHT DELAYS IN 2019–2020:

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Dimensions

3303 obs. | 23 var

DATA

1

Qualitative

Year

Month

Carrier

Airport

City

State

2

Quantitative

Arr_del15

Number of flights more than 15 minutes late followed by percentages

Carrier_ct

Weather_ct

NAS_ct

Late_aircraft_ct

Security_ct

Arr_delay

Sum of Total time (minutes) of delayed flight

Carrier_delay

Weather_delay

NAS_delay

Late_aircraft_delay

Security_delay

Arr_cancelled

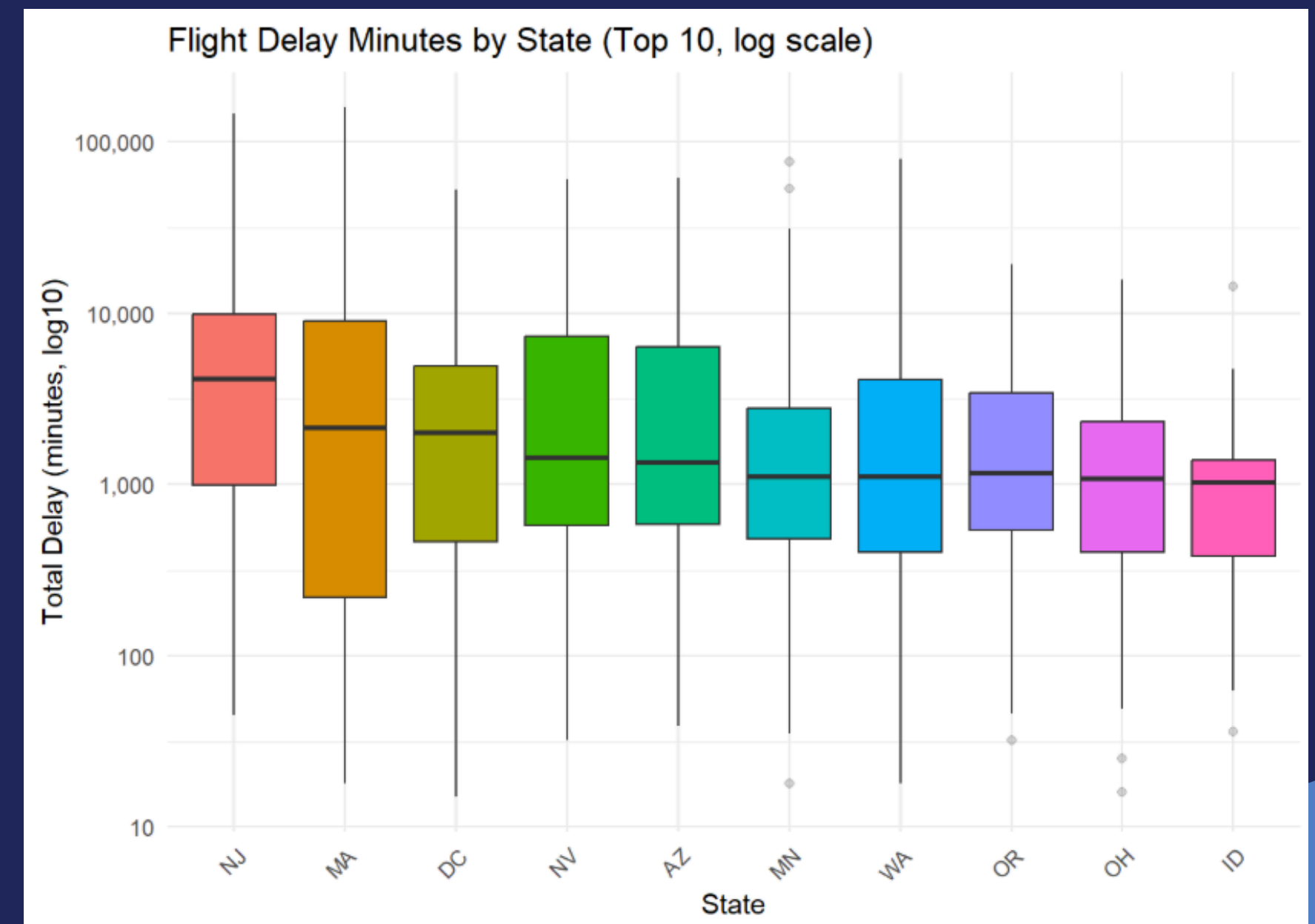
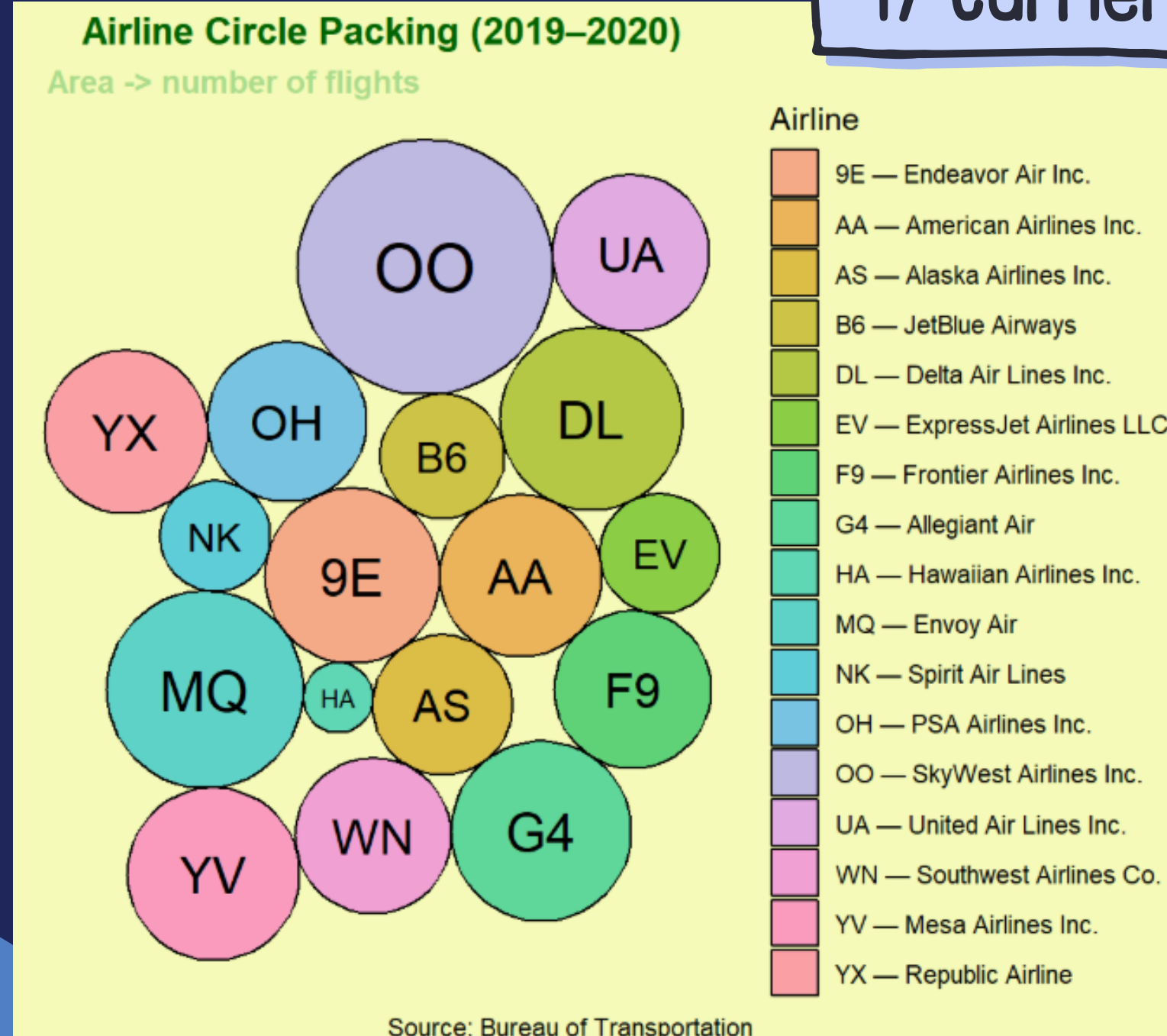
Arr_diverted

Cleaning

- Drop NA values
- Split Airport name (city, State, airport)
- Filtered to valid 51 states (50 + DC)

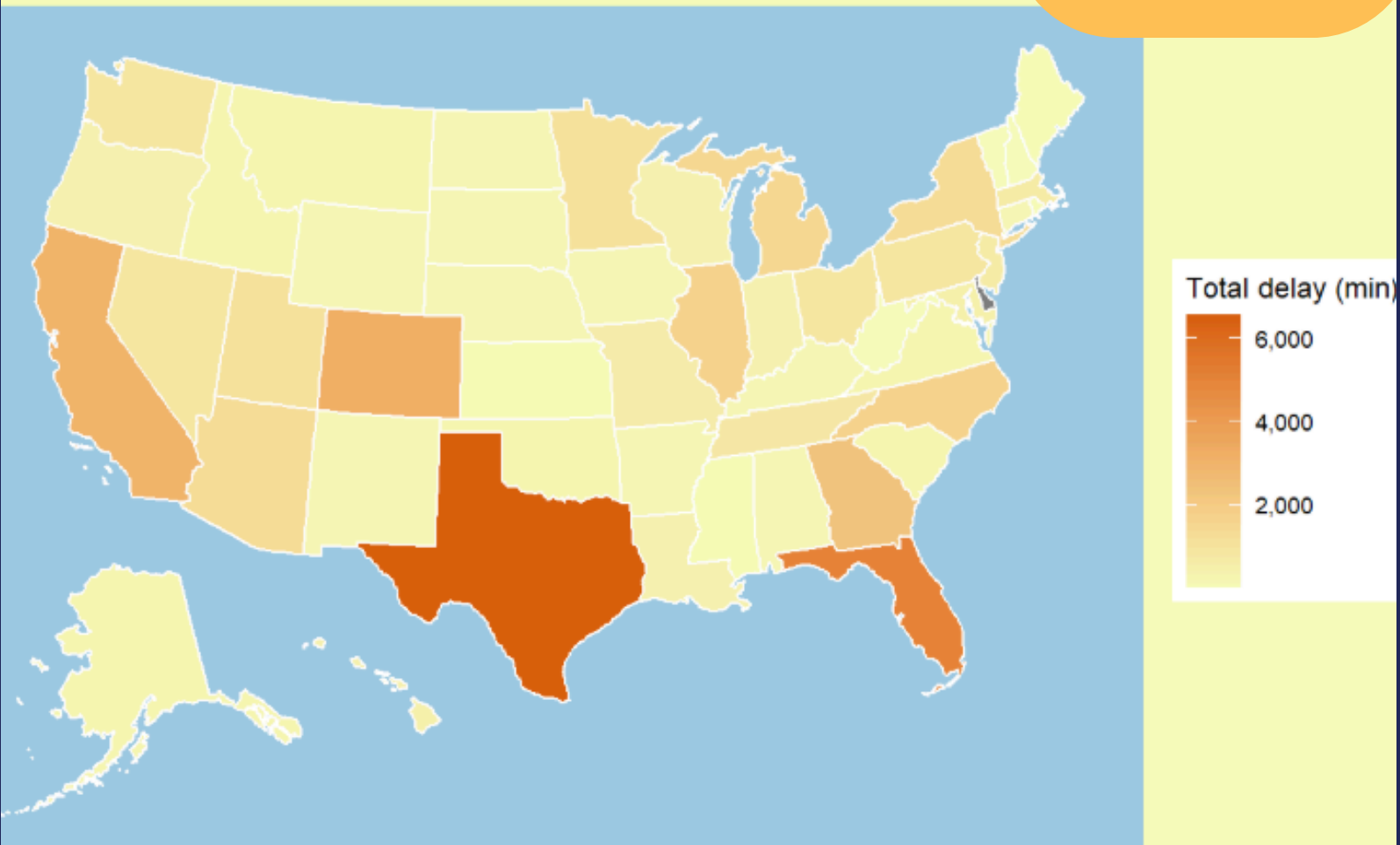
STATISTICS

17 Carriers

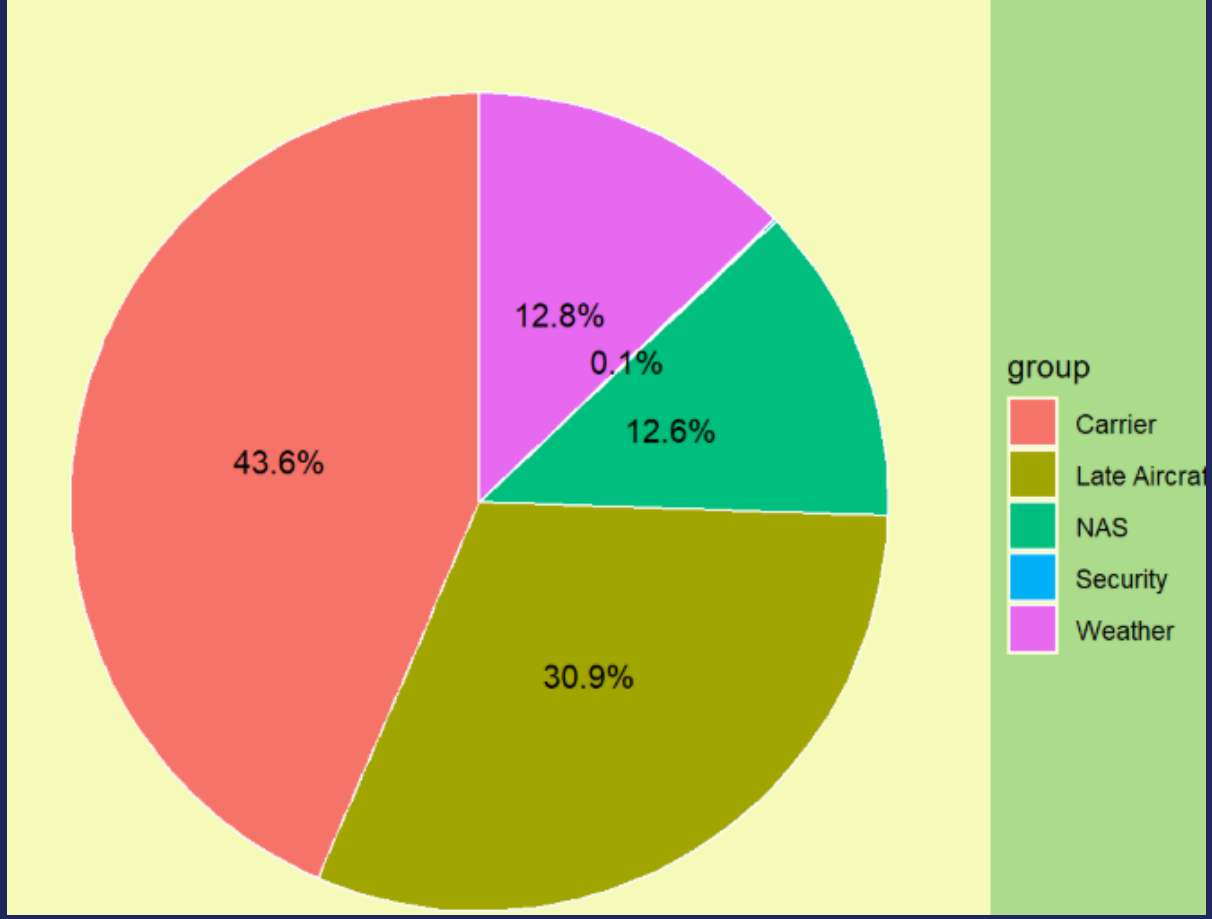


2020

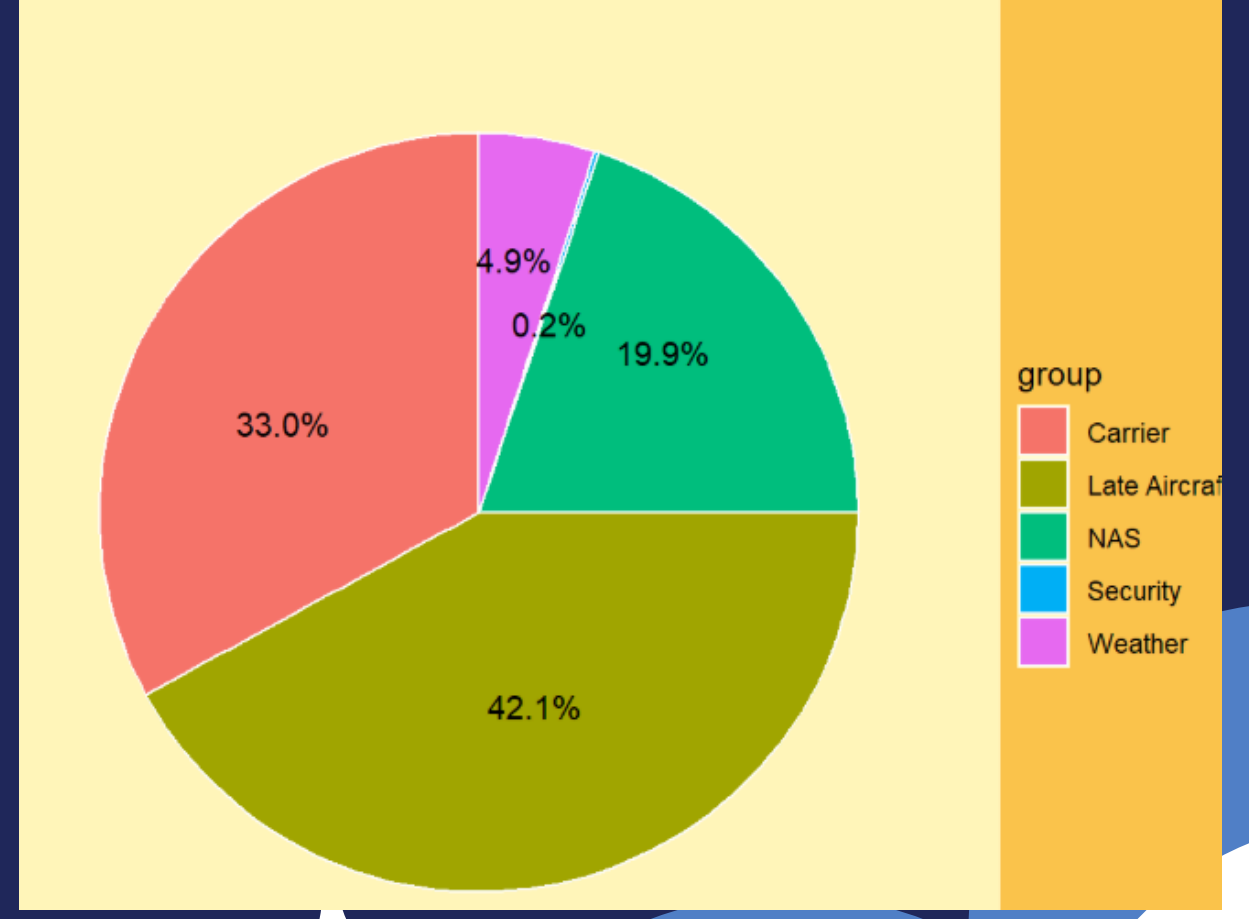
Arrival Delay Minutes by State (2020)




West Virginia — Causes of Delays



Texas — Causes of Delays



STATES OF INTEREST



No simple link between
number of flights and
number of delays
(Envoy vs Southwest).

Big hub states like
CA, TX, FL
have the highest delay
counts.

Causes of delay are
dominated by carrier
issues and late aircraft;
NAS & weather matter
most in busy or stormy
states.

RESULTS

Questions Answered

1. Which airlines and states have the most delays?
2. How did delays change between 2019 and 2020?
3. Which causes drive those delays?

THANK
YOU

