HOW SAFE IS AIR TRAVEL FOR PETS?

DATS 6401 - Final Project

- Purvi Thakor

DATA SOURCE

■ DOT publishes monthly Air Travel Consumer Reports in PDFs.

■ PetFlight publishes the same reports on its website.

DATA EXTRACTION

Details

See all incidents for United Airlines
Airline: **United Airlines**
Incident Date: **Dec 22, 2017**
Report Date: **February 2018**
Incident Type: **Death**
Animal: **Dog**
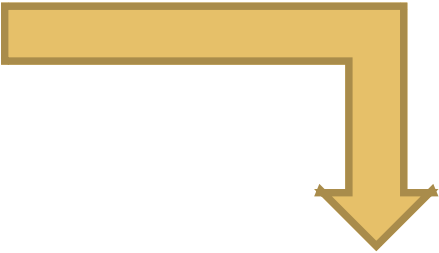Brachycephalic: **Yes** *Definition*
Animal Age: **Not reported**
Flight Number: **UA1773**
Originating Airport: **PBI** (Palm Beach Intl)
Destination Airport: **EWR** (Newark Liberty Intl)
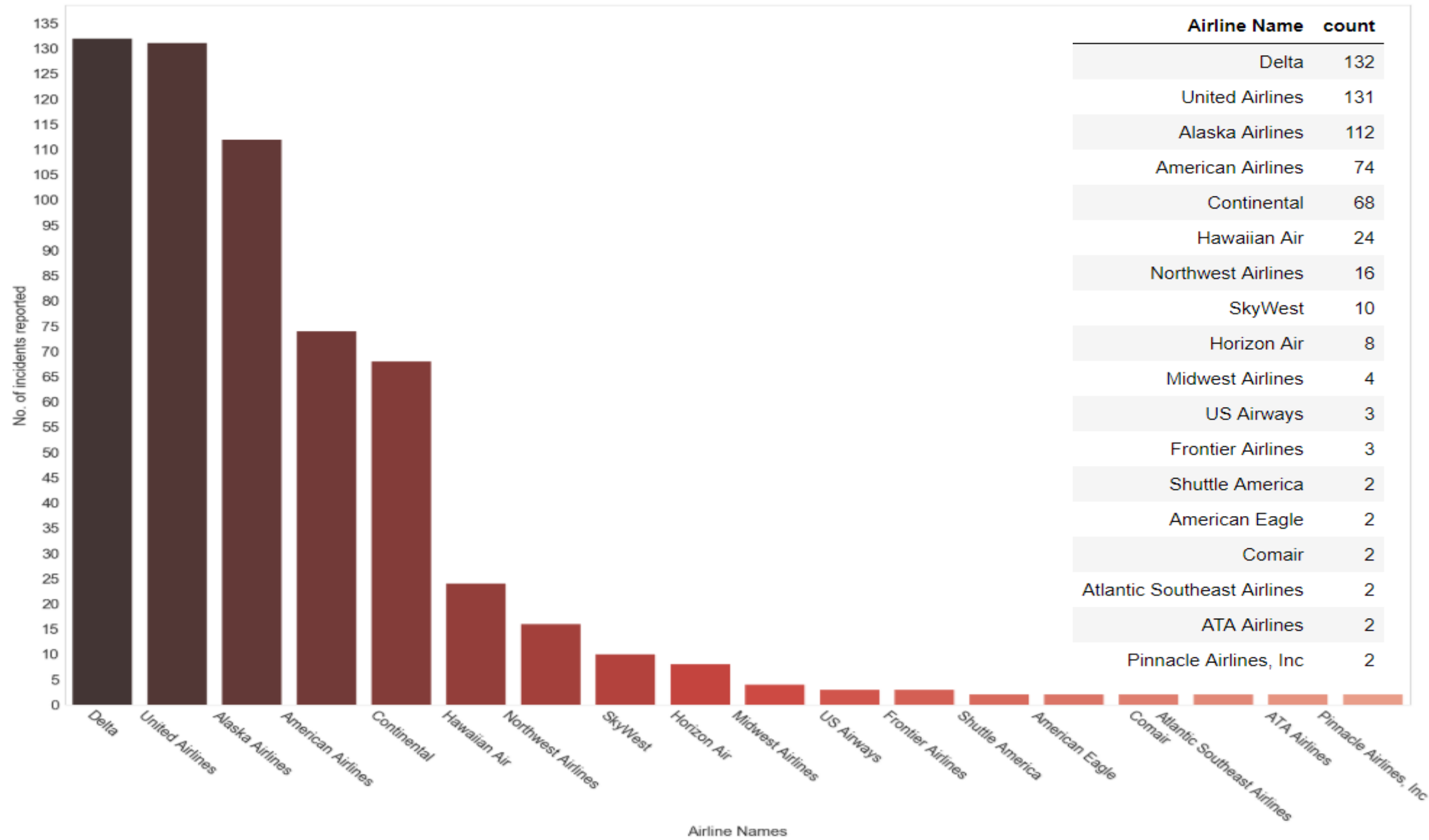Reporting Airport: **EWR** (Newark Liberty Intl)

	Airline	Animal	Animal Age	Brachycephalic	Destination Airport	Flight Number	Incident Date	Incident Type	Originating Airport	Report Date	Reporting Airport
0	Delta	Cat	Not reported	No	SAT	NaN	12/23/2019	Injury	PDX	February-2016	PDX
1	United Airlines	Dog	8 years	Yes	NaN	UA396	9/29/2017	Injury	NaN	November-2017	SFO
2	United Airlines	Dog	4 years	Yes	ORD	UA1562	9/26/2017	Injury	ANC	November-2017	ANC

You didn't write that awful page. You're just trying to get some data out of it. Beautiful Soup is here to help. Since 2004, it's been saving programmers hours or days of work on quick-turnaround screen scraping projects.
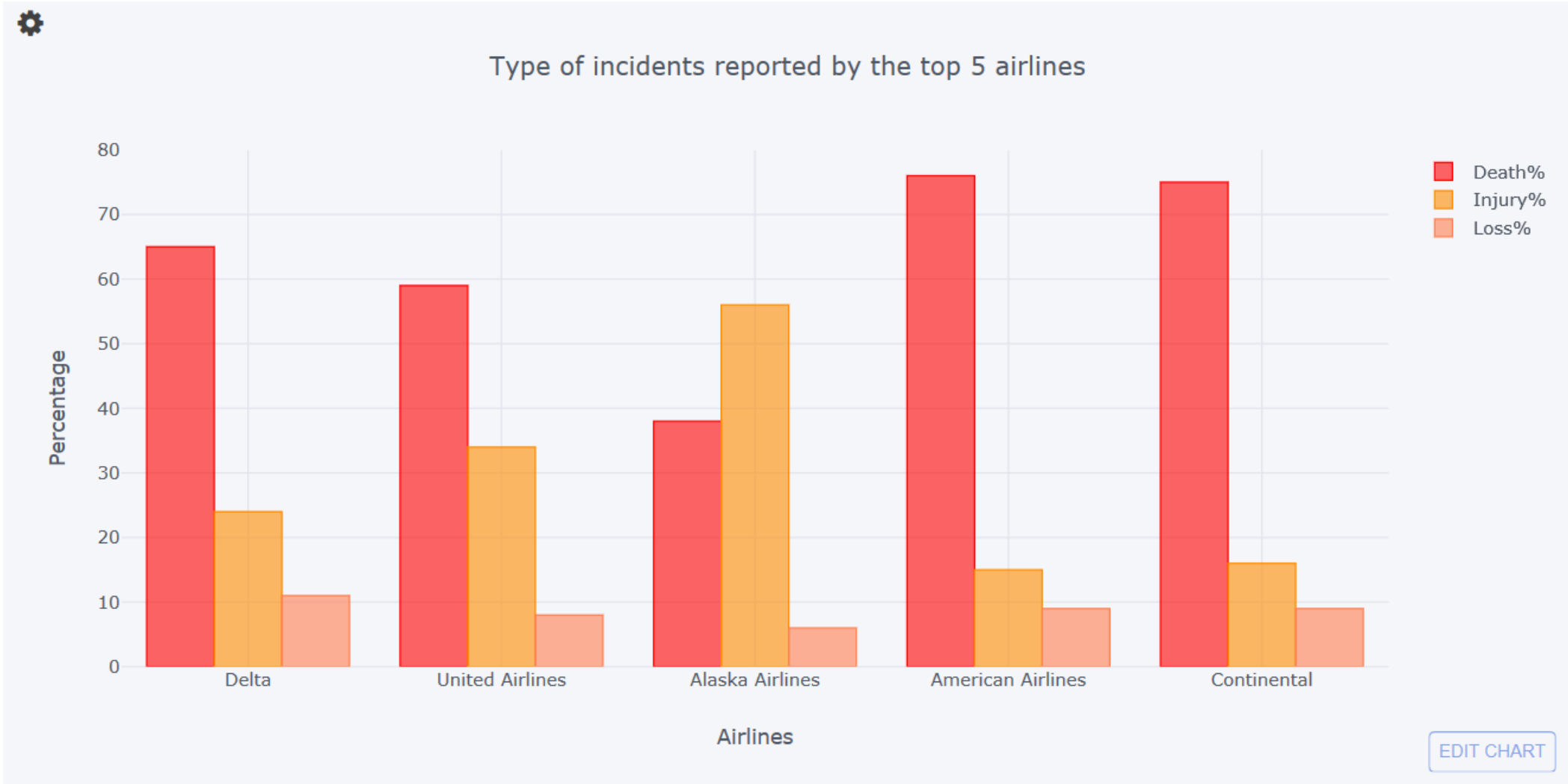
Beautiful Soup

"A tremendous boon." -- Python411 Podcast

WHICH AIRLINES REPORT THE MOST NUMBER OF INCIDENTS?

| Airline Name	count
Delta	132
United Airlines	131
Alaska Airlines	112
American Airlines	74
Continental	68
Hawaiian Air	24
Northwest Airlines	16
SkyWest	10
Horizon Air	8
Midwest Airlines	4
US Airways	3
Frontier Airlines	3
Shuttle America	2
American Eagle	2
Comair	2
Atlantic Southeast Airlines	2
ATA Airlines	2
Pinnacle Airlines, Inc	2

INCIDENTS REPORTED BY TOP 5 AIRLINES

Type of incidents reported by the top 5 airlines

AIRPORTS THAT HAVE REPORTED INCIEDNTS

Airport_Code	count
SEA	66
ATL	54
HNL	30
LAX	29
IAH	29
EWR	23
SFO	21
ORD	18
DFW	15
MCO	14

INCIDENTS ON MAP

REPORTS SO FAR

Incident	count	Percentage
Death	348	58.29
Injury	190	31.83
Loss	59	9.88
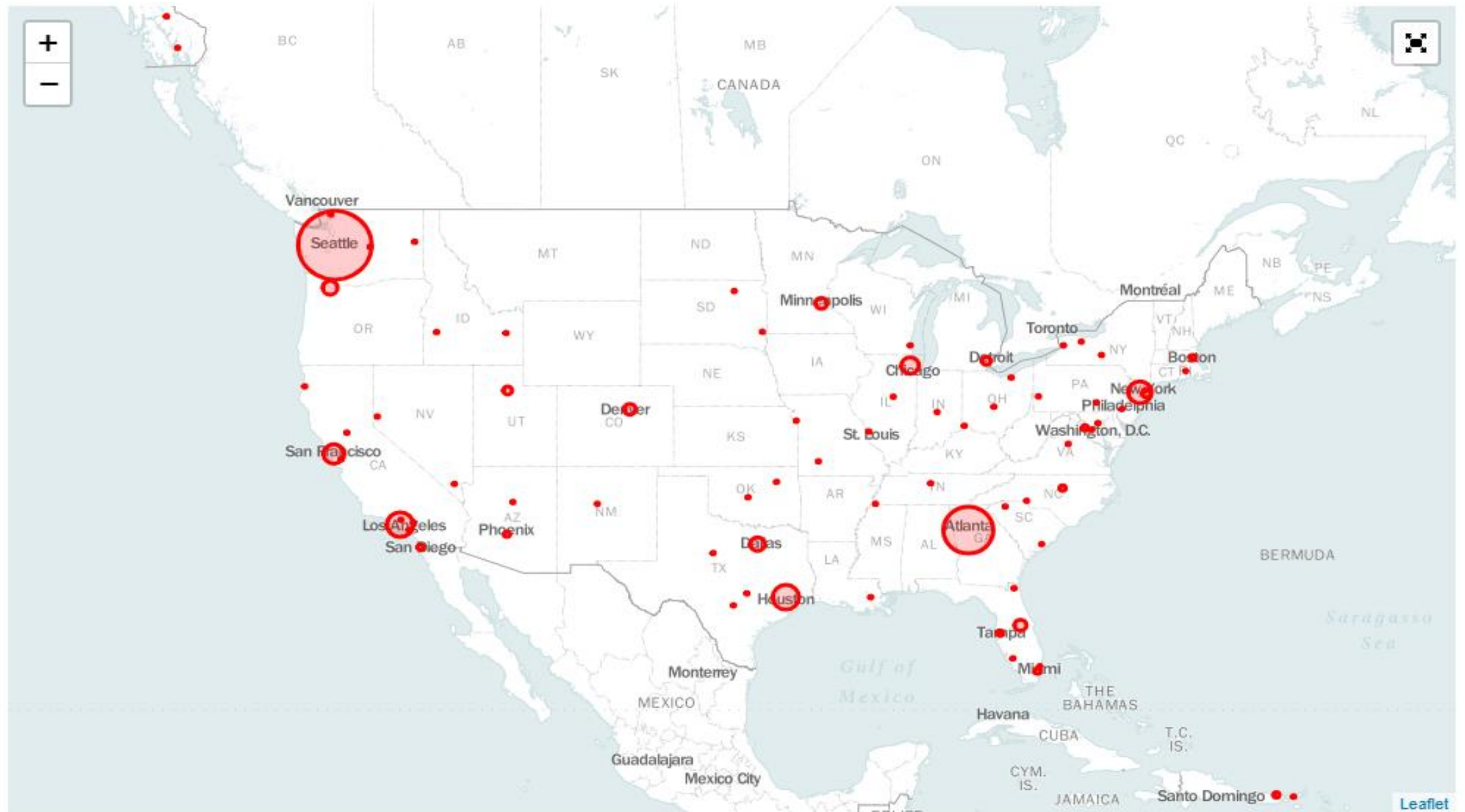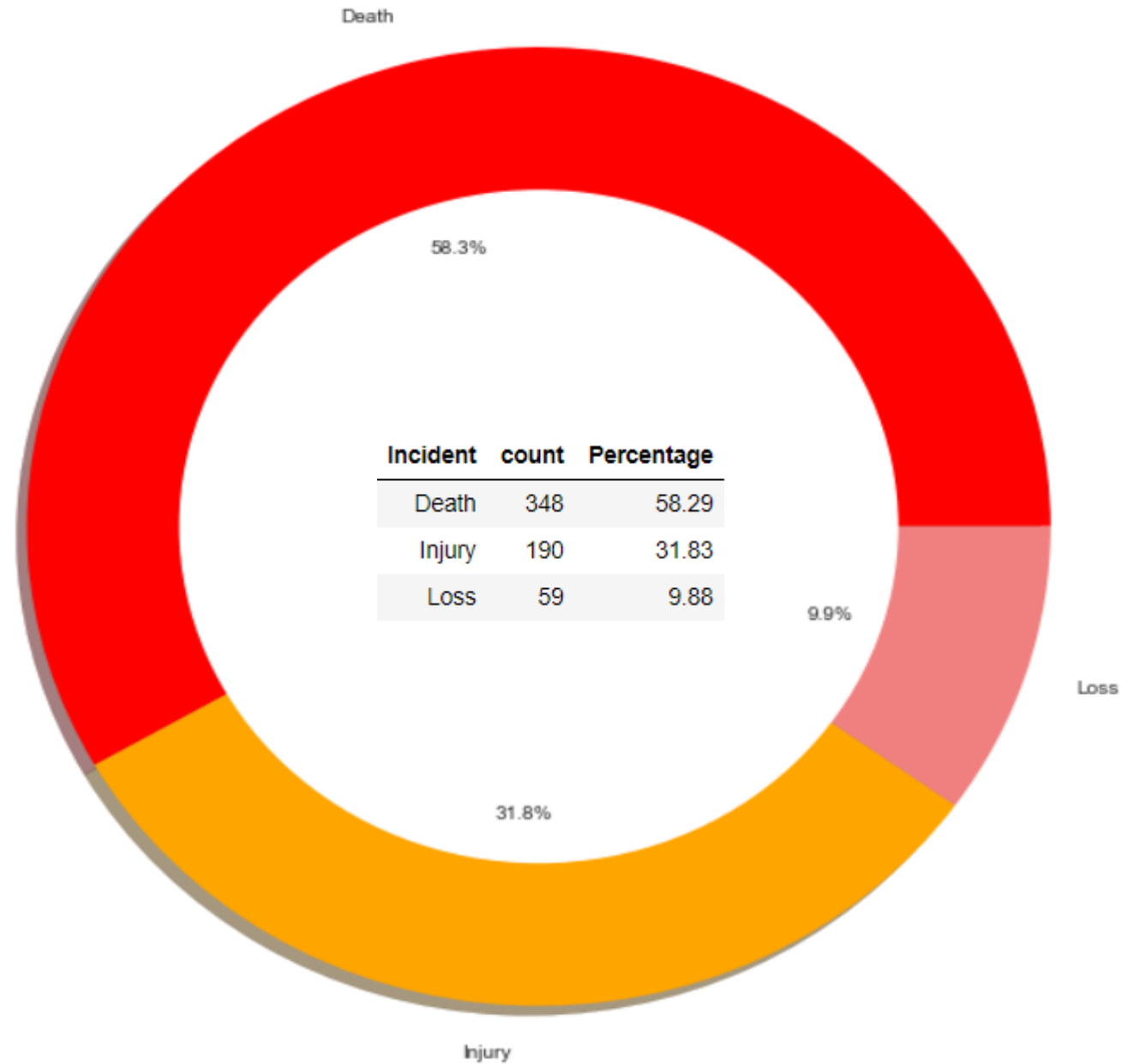
ANIMALS ON BOARD

Year 2005 ⌄

⚙

	Loss
	Injury
	Death
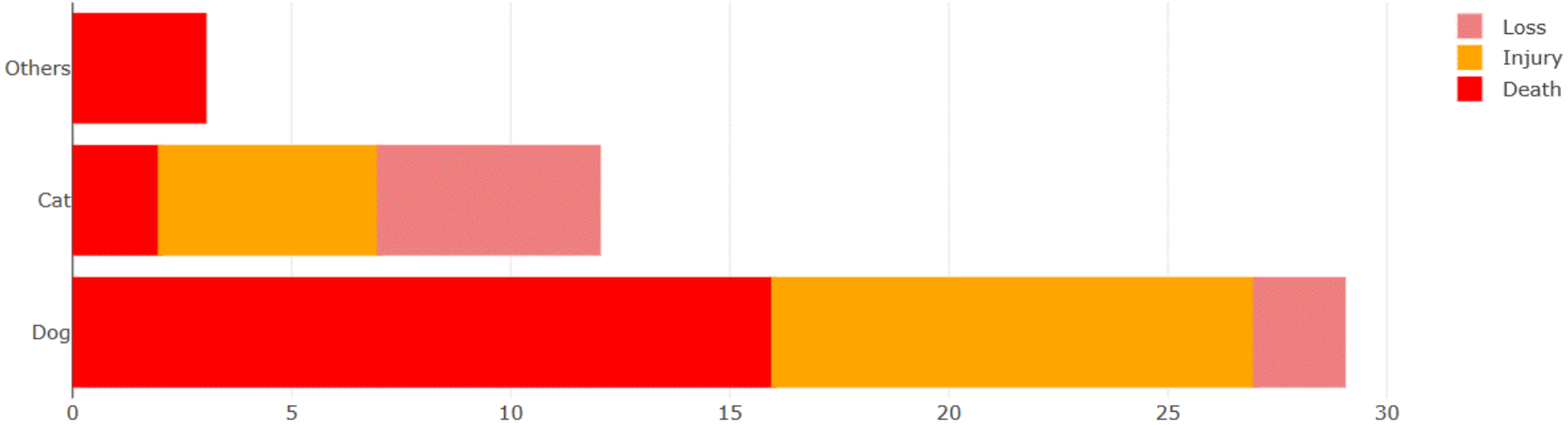
EDIT CHART

PLOTLY DASHBOARD

PLOTLY DASHBOARD TO SHOW ANIMALS ON BOARD

Animals on board

Legend:
- Dog
- Cat
- Others

Values: 76%, 18%, 6%
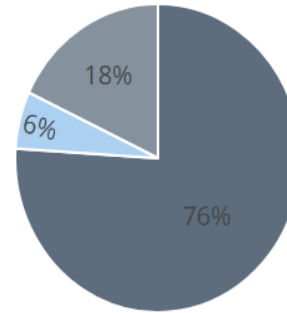
Were the Dogs brachycephalic (short nosed) ?

Legend:
- No
- Yes

Values: 64%, 36%
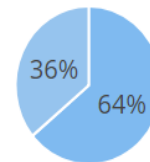
SEASONAL EFFECTS ON INCIDENT COUNTS

AGE V/S INCIDENTS

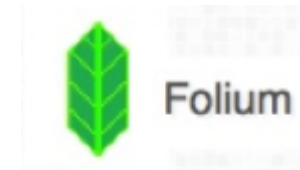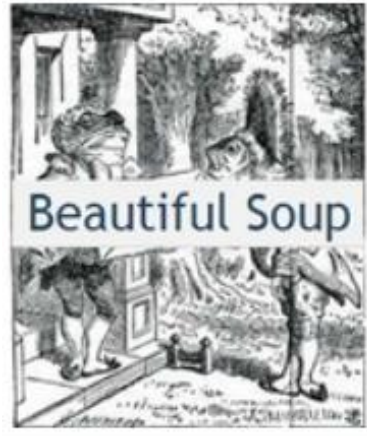## Age v/s Deaths

Age v/s Count of Animals

Age v/s Injuries
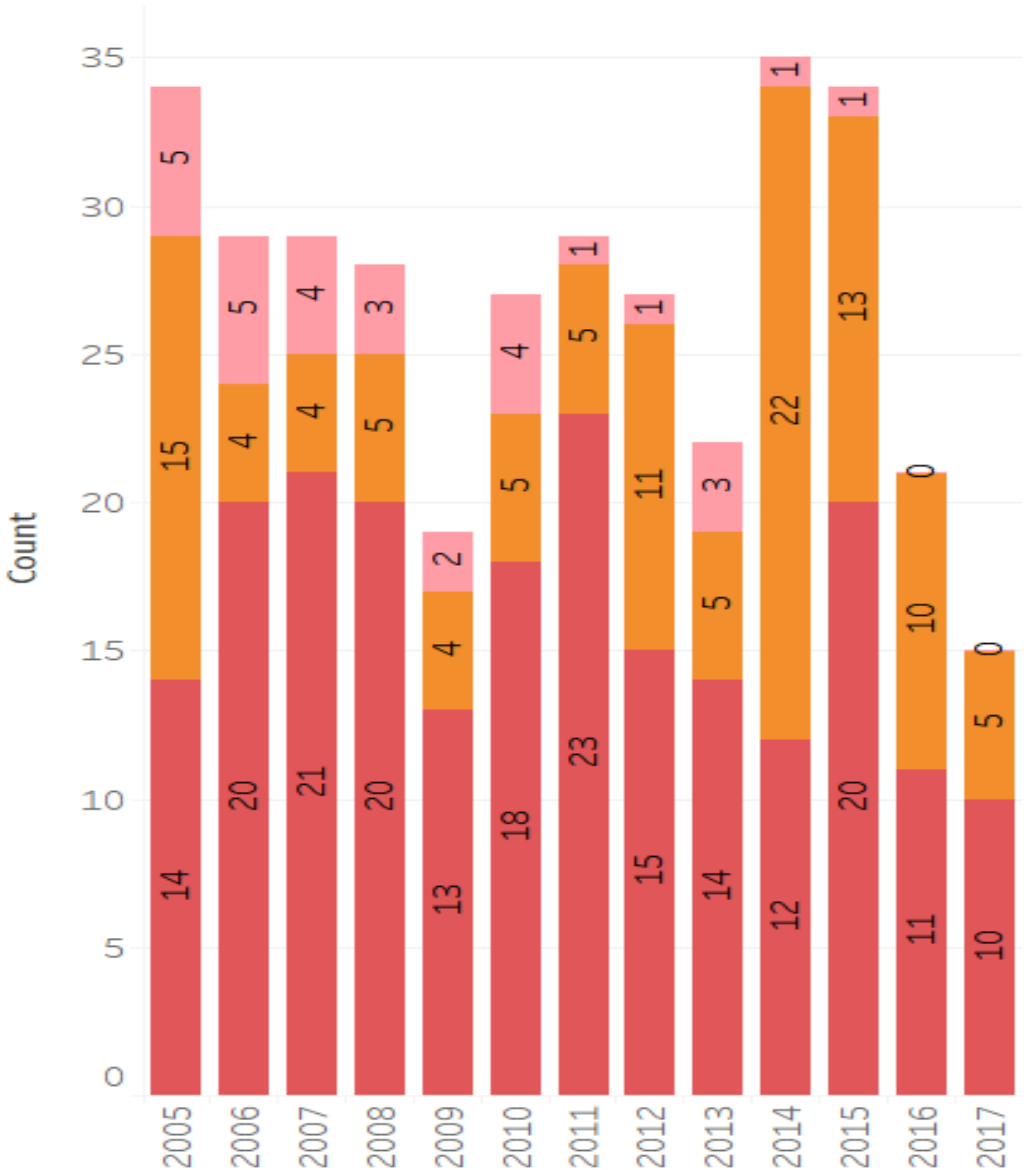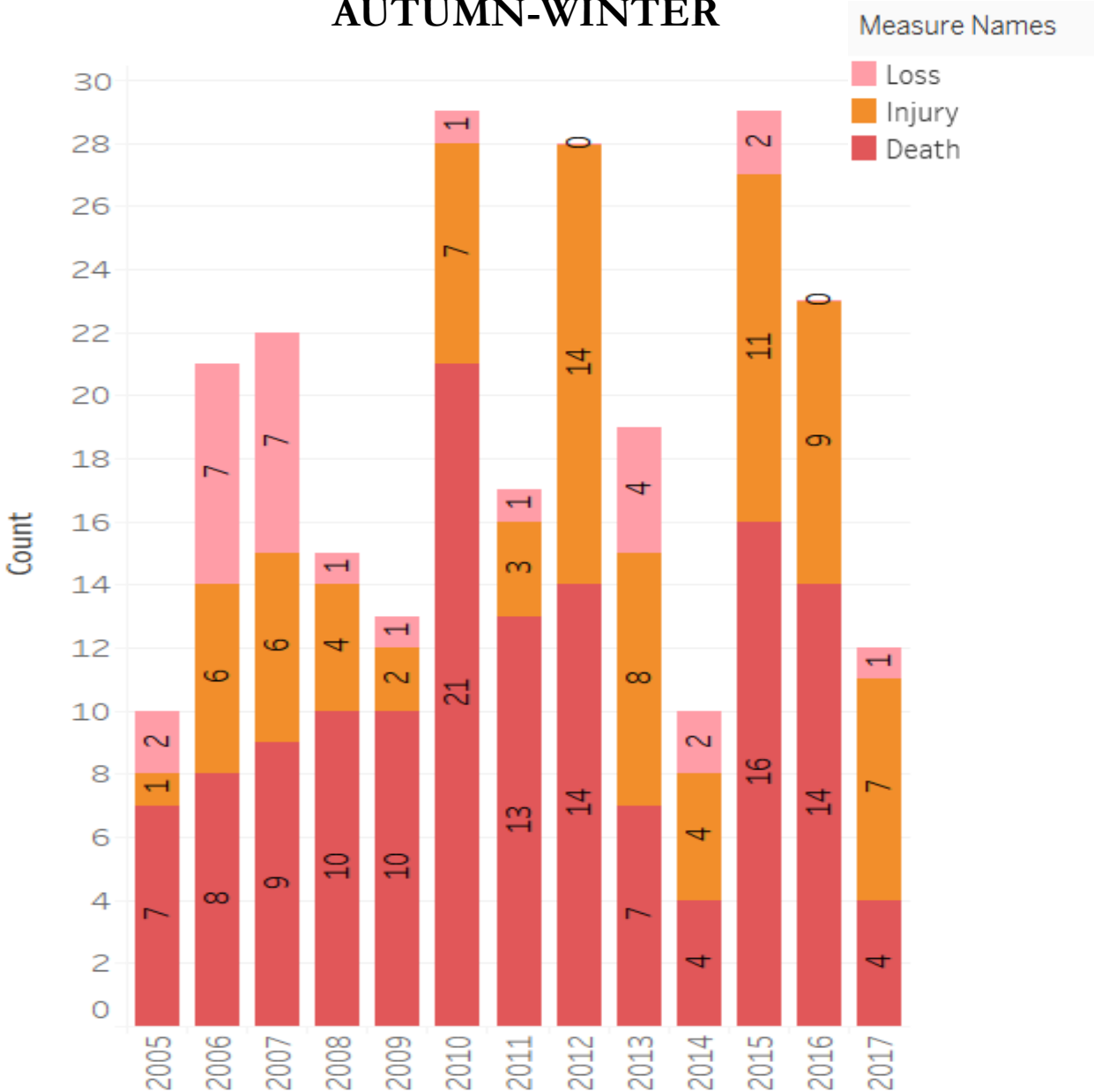
Age v/s Losses
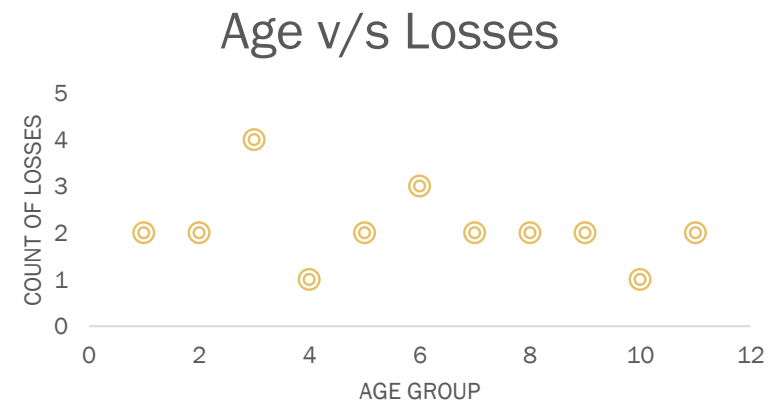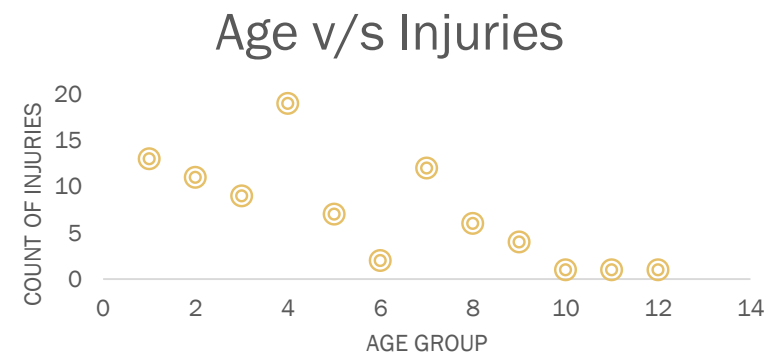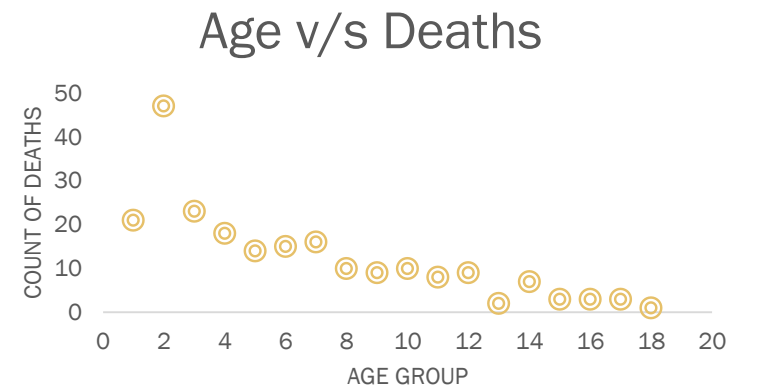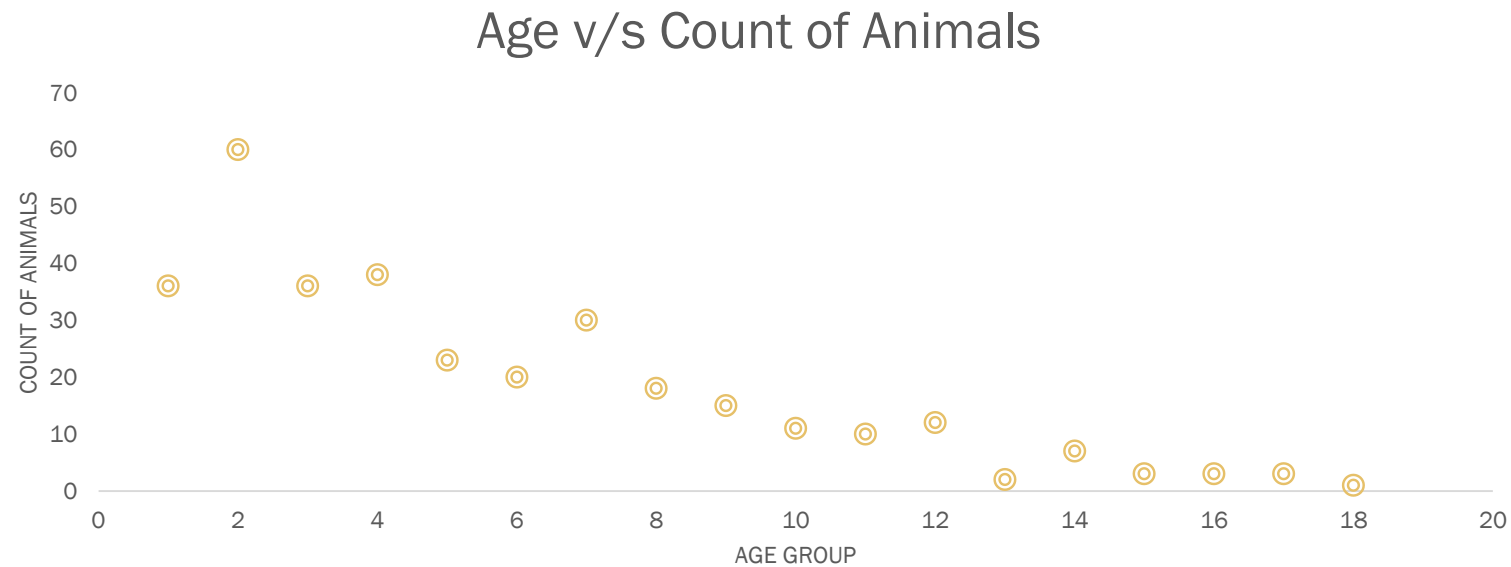
LEARNINGS

- Managed to work on this dataset in spite of it not being large

- TOOLS USED:

THANK YOU!