

A blue parallelogram and a light green parallelogram are positioned on the left side of the slide, overlapping each other and the dark blue background. The blue shape is on the left, and the green shape is to its right, partially overlapping it.

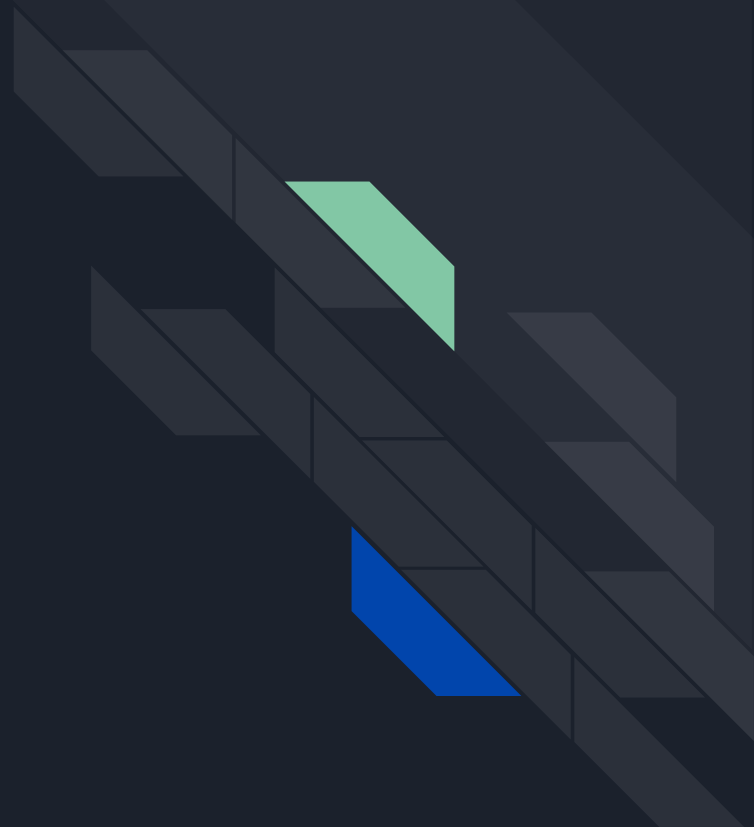
Plane & Simple

taking off with a bad pun

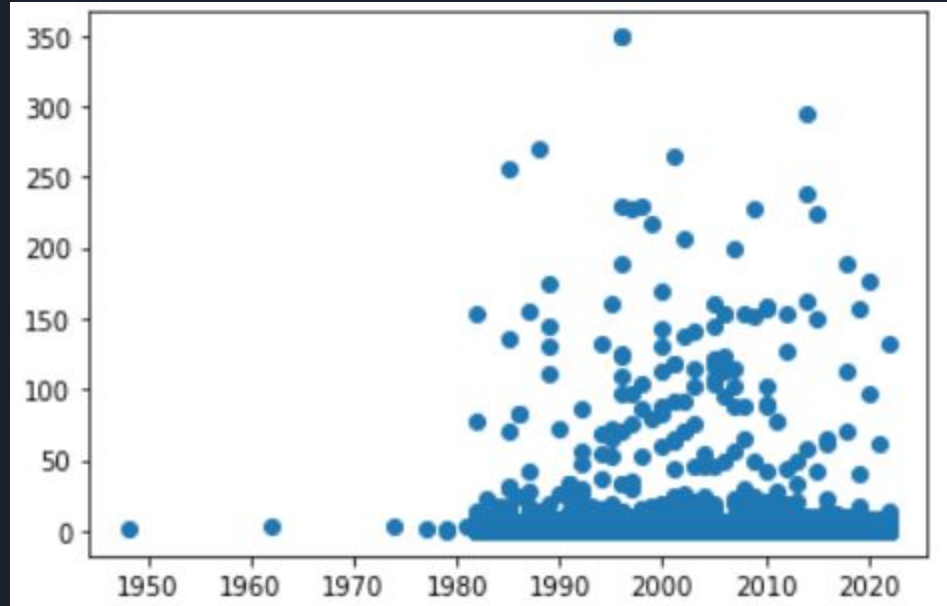
Data Understanding

Contains information on incidents -

- Fatalities
- Aircraft specs
- Purpose of flight
- etc...



Data Distribution

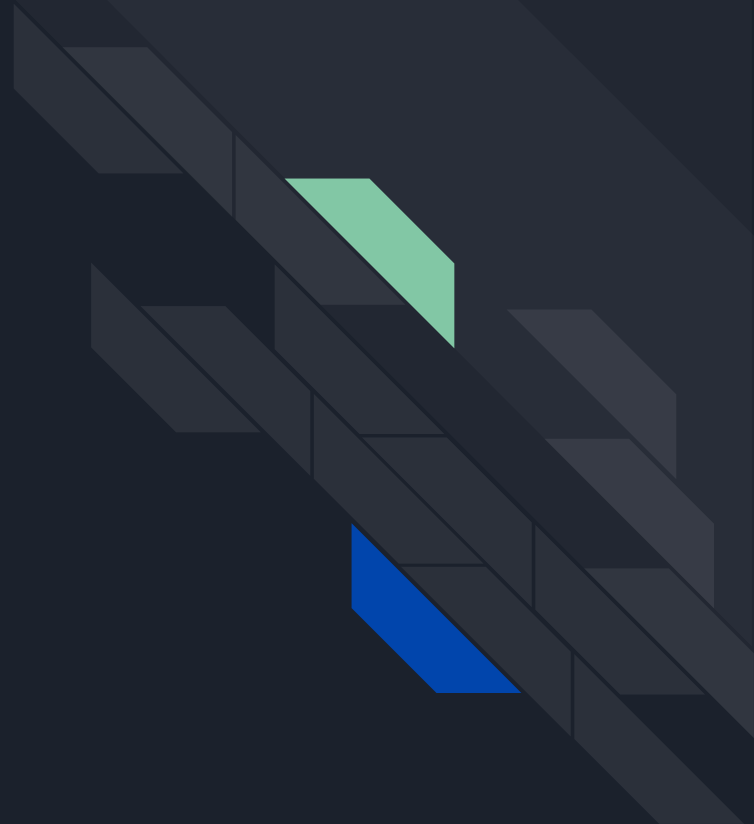


A majority of years have < 50 fatalities

79.96 %

of incidents have 0 fatalities.

9.99 % of incidents have 1 fatality



How much does the average
American fly per year?



About 2-3 times per year





Customer Wants vs Your Wants

- | | |
|---|--|
| <ul style="list-style-type: none">● Low cost● Shortest flight● Comfortability | <ul style="list-style-type: none">● Minimal incidents● Low fatality rate● Safety in the event
of an incident |
|---|--|

How do we satisfy
everybody's wants?





Points of Interest

- Engine count
- Engine type
- Purpose of flight



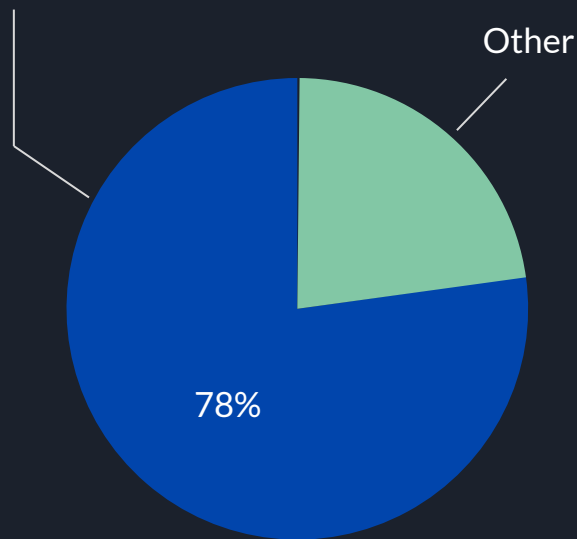
Engine count

- More engines allows for redundancy
 - Engine failure isn't an immediate threat
 - Alots time for a safe landing
 - Trade off of more fuel



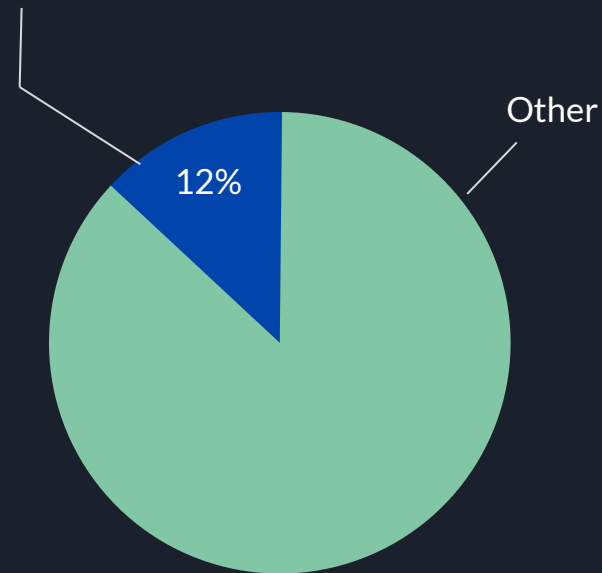
Engine incident rate


Single engine



Dual engine

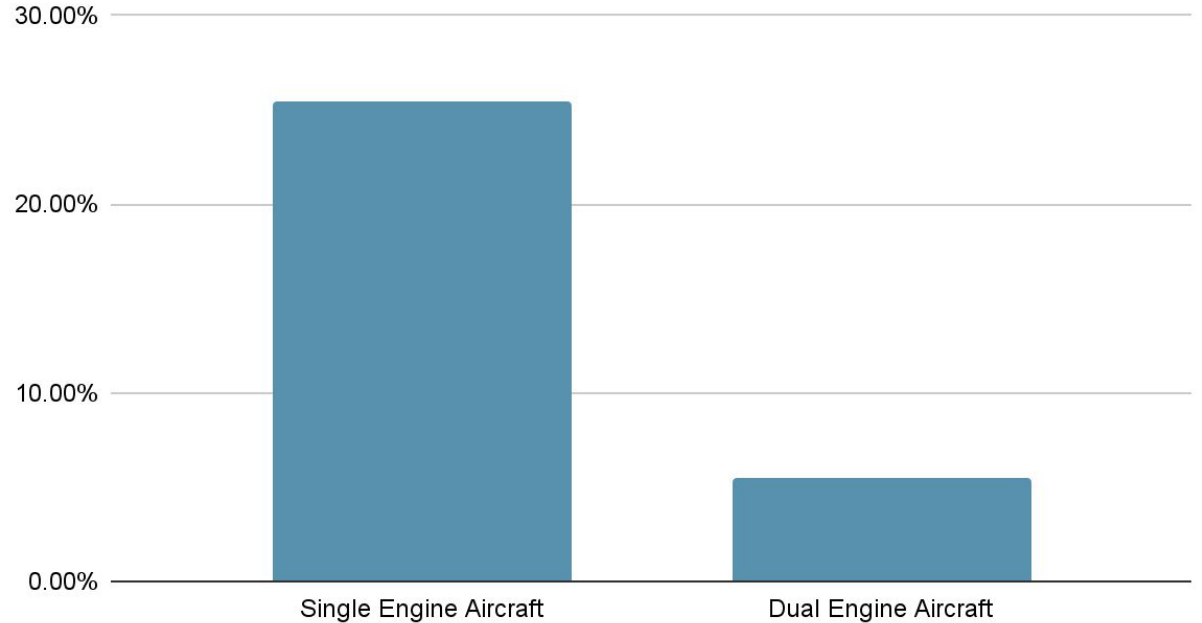
66%
difference





Single engine aircraft, being associated with 25% of fatalities, appears to not be a safe choice


Percent of fatalities per engine count





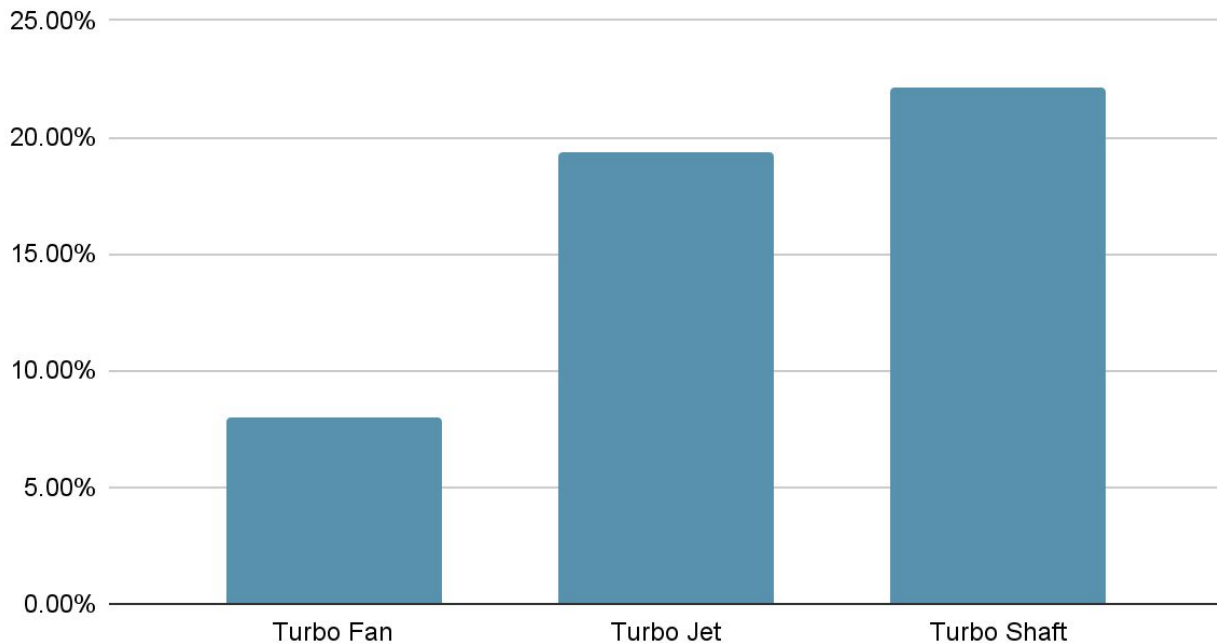
Engine Type

- Variables affected by engine type
 - Safety
 - Efficiency



Here we can see
that turbo shaft
has significantly
more incidents
that result in at
least 1 fatality


percent of incidents resulting in at least 1 fatality





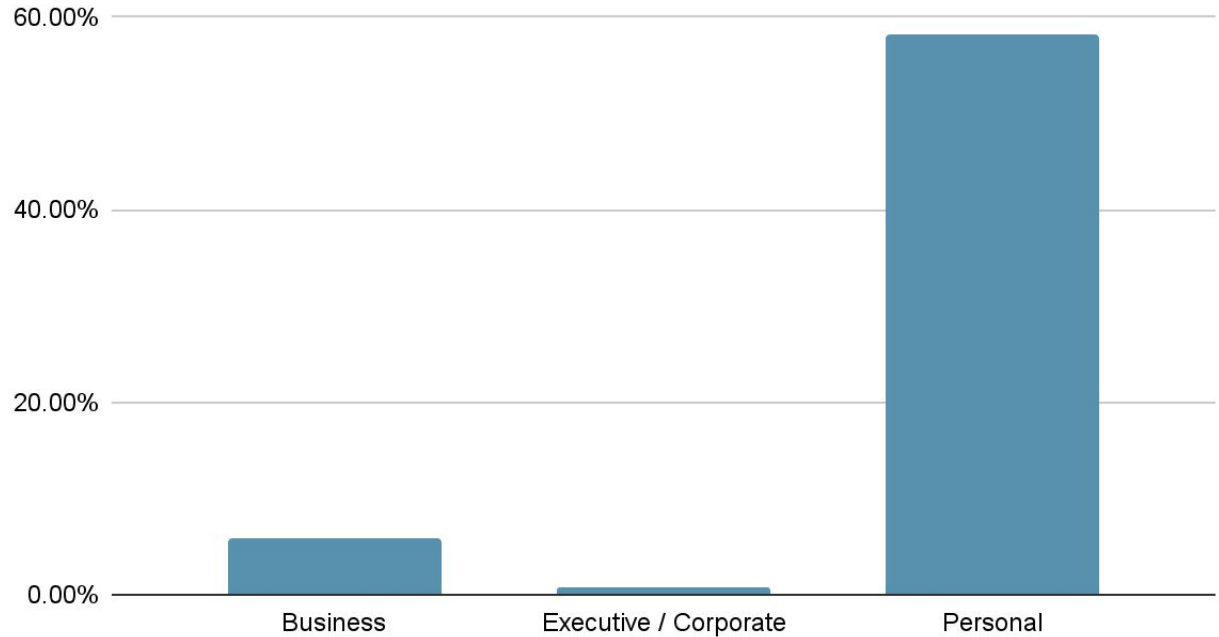
Purpose of Flight

- Personal
- Business
- Executive / Corporate

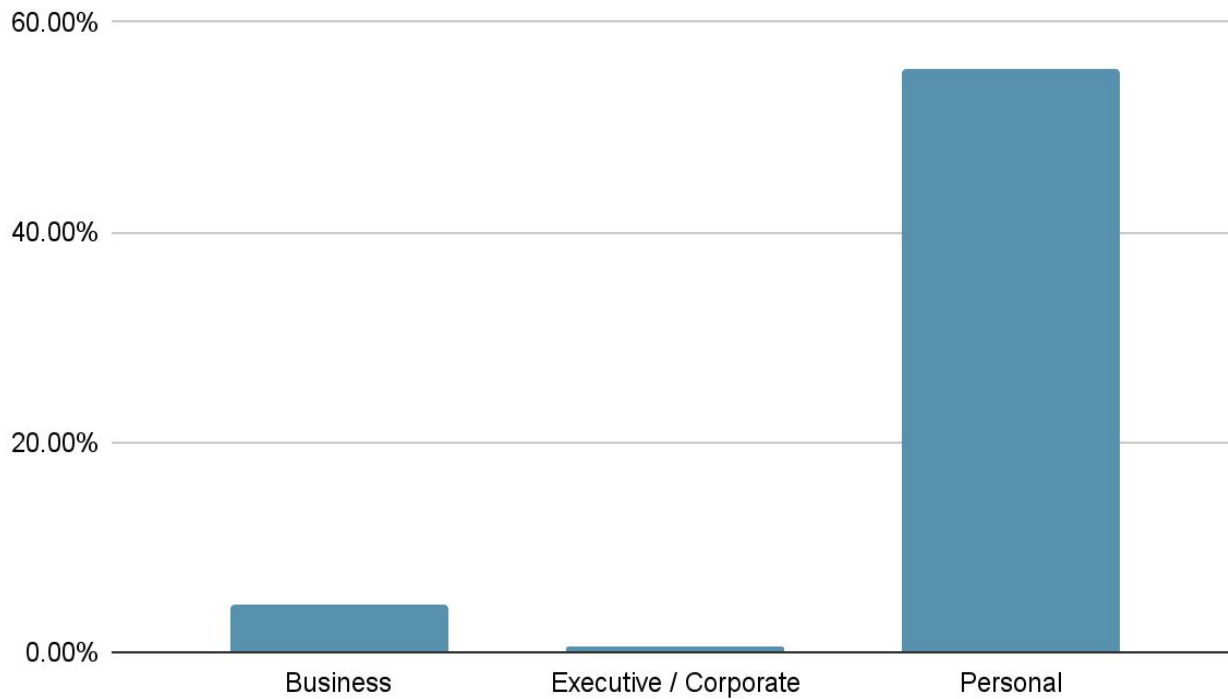


Personal flights
are clearly
more
dangerous than
other purpose
of flights

Percent of Fatalities per purpose of flight



percent of entries for purpose of use





Recommendation 1

- Airbus A330
 - Medium sized aircraft
 - 220 - 260 capacity
 - Dual turbo fan
 - Boasts an extremely low incident rate, being only
0.51% of incidents



Recommendation 2

- Boeing 747
 - Large size aircraft
 - 276 - 467 capacity
 - Quad turbo fan
 - Moderately low incident rate of 3.1%



Recommendation 3

- Cessna Latitude
 - Small business jet
 - 9 max passengers
 - Dual turbo fan
 - No reported fatalities

Thank you

questions?

Contact information

Email : darrynj12@yahoo.com

