

# Why This Mission?

Today marks the 75th Anniversary of the day More than 160,000 Allied troops landed along a 50-mile stretch of heavily-fortified French coastline, to fight Nazi Germany on the beaches of Normandy, France. Gen. Dwight D. Eisenhower called the operation a crusade in which, "we will accept nothing less than fullvictory." More than 5,000 Ships and 13,000 aircraft supported the D-Day invasion, and by day's end, the Allies gained a foot-hold in Continental Europe. The cost in lives on D-Day was high. More than 9,000 Allied Soldiers were killed or wounded, but their sacrifice allowed more than 100,000 Soldiers to begin the slow, hard slog across Europe, to defeat Adolf Hitler's crack troops.

# Understanding our Dataset



World War II Flight Missions





Out[9]:

	MSNDATE
TGT_COUNTRY	
"PAPUA NEW GUINEA, MANUS ISLAND"	3
ALBANIA	150
ALEUTIAN ISLANDS	239
ALGERIA	2
ANDAMAN ISLANDS	8

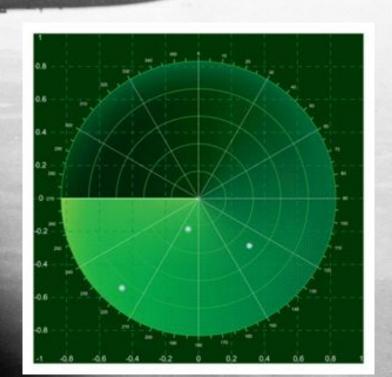
WWII GitHub Repo - Using Pandas

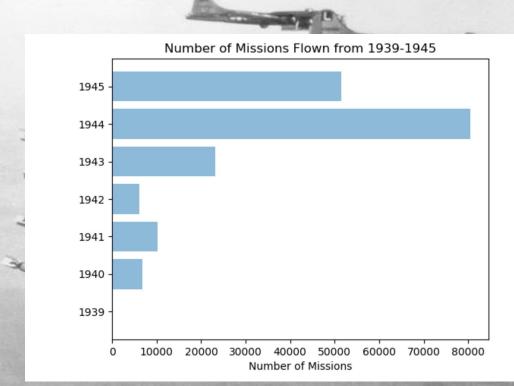


```
results = db.session.query(Missions.LONGITUDE,
                            Missions.LATITUDE.
                           Missions.MSNDATE,
                            Missions.YEAR.
                           Missions.AIRCRAFT_NAME,
                           Missions.TGT COUNTRY,
                           Missions.COUNTRY FLYING MISSION).order by(Missions.MSNDATE.asc())
# print(results)
master list = []
for result in results:
    Mission Data = {}
   Mission Data["LONGITUDE"] = result.LONGITUDE
   Mission Data["LATITUDE"] = result.LATITUDE
   Mission Data["MSNDATE"] = result.MSNDATE
   Mission Data["YEAR:"] = result.YEAR
   Mission Data["AIRCRAFT NAME"] = result.AIRCRAFT NAME
   Mission Data["COUNTRY FLYING MISSION"] = result.COUNTRY FLYING MISSION
   Mission Data["TGT COUNTRY"] = result.TGT COUNTRY
   master_list.append(Mission_Data)
# print(Mission Data)
return jsonify(master_list)
```

```
"AIRCRAFT NAME": "WHITLEY",
  "COUNTRY FLYING MISSION": "GREAT BRITAIN",
  "LATITUDE": 53.563056,
  "LONGITUDE": 9.967222,
  "MSNDATE": "Sun, 03 Sep 1939 00:00:00 GMT",
  "TGT COUNTRY": "GERMANY",
  "YEAR:": ""
  "AIRCRAFT_NAME": "BLENHEIM",
  "COUNTRY FLYING MISSION": "GREAT BRITAIN",
  "LATITUDE": 53.5,
  "LONGITUDE": 8.05,
  "MSNDATE": "Mon, 04 Sep 1939 00:00:00 GMT",
  "TGT COUNTRY": "GERMANY",
  "YFAR:": ""
  "AIRCRAFT NAME": "WELLINGTON",
  "COUNTRY FLYING MISSION": "GREAT BRITAIN",
  "LATITUDE": 53.89504,
  "LONGITUDE": 9.104836,
  "MSNDATE": "Mon, 04 Sep 1939 00:00:00 GMT",
  "TGT COUNTRY": "GERMANY",
  "YFAR:": ""
  "AIRCRAFT NAME": "WHITLEY",
  "COUNTRY_FLYING_MISSION": "GREAT BRITAIN",
  "LATITUDE": 52.366667,
  "LONGITUDE": 9.716667,
  "MSNDATE": "Mon, 04 Sep 1939 00:00:00 GMT",
  "TGT COUNTRY": "GERMANY",
  "YEAR:": ""
},
```

## Yearly WWII Flight Mission Data

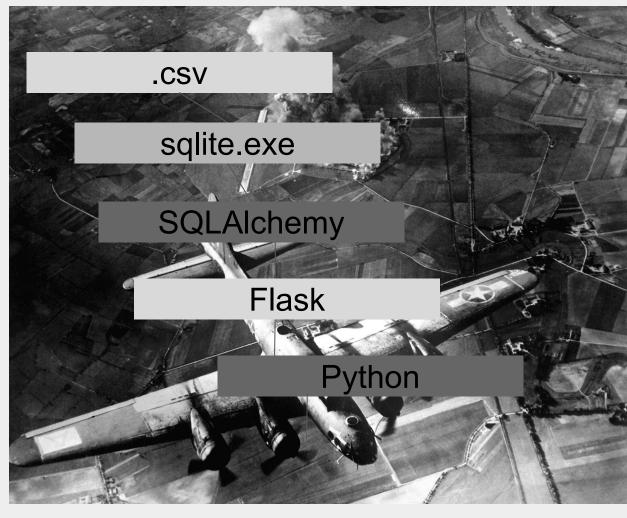






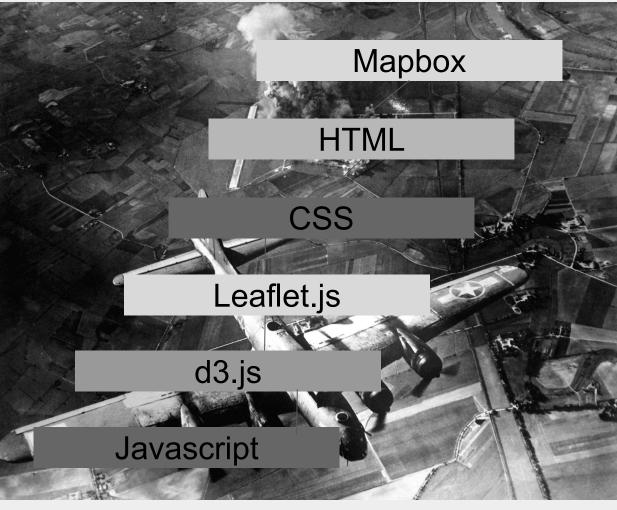
### Back-End:





## Front-End:







#### Amount of Missions across the globe:



## A look ahead...

had some fun with Tableau using our takeoff data... Takeoff Countries using MapBox



#### Not Labeled

- New Hebrides
- New Guinea
- Ellice Islands
- Borneo
- Ceylon
- Corsica
- Sicily

#### Conclusion

- A large portion of take off flights were from Asia
- The most amount of missions occurred in 1944
- "Gray" was the most commonly used callout sign of communication
- Model B-17 fighter plane was most commonly used on missions (41,953) - built 83 years ago in Seattle
- The most targeted location was in Berlin

