

# Aerodynamic Flow Visualization

Model-Scale to Full-Scale

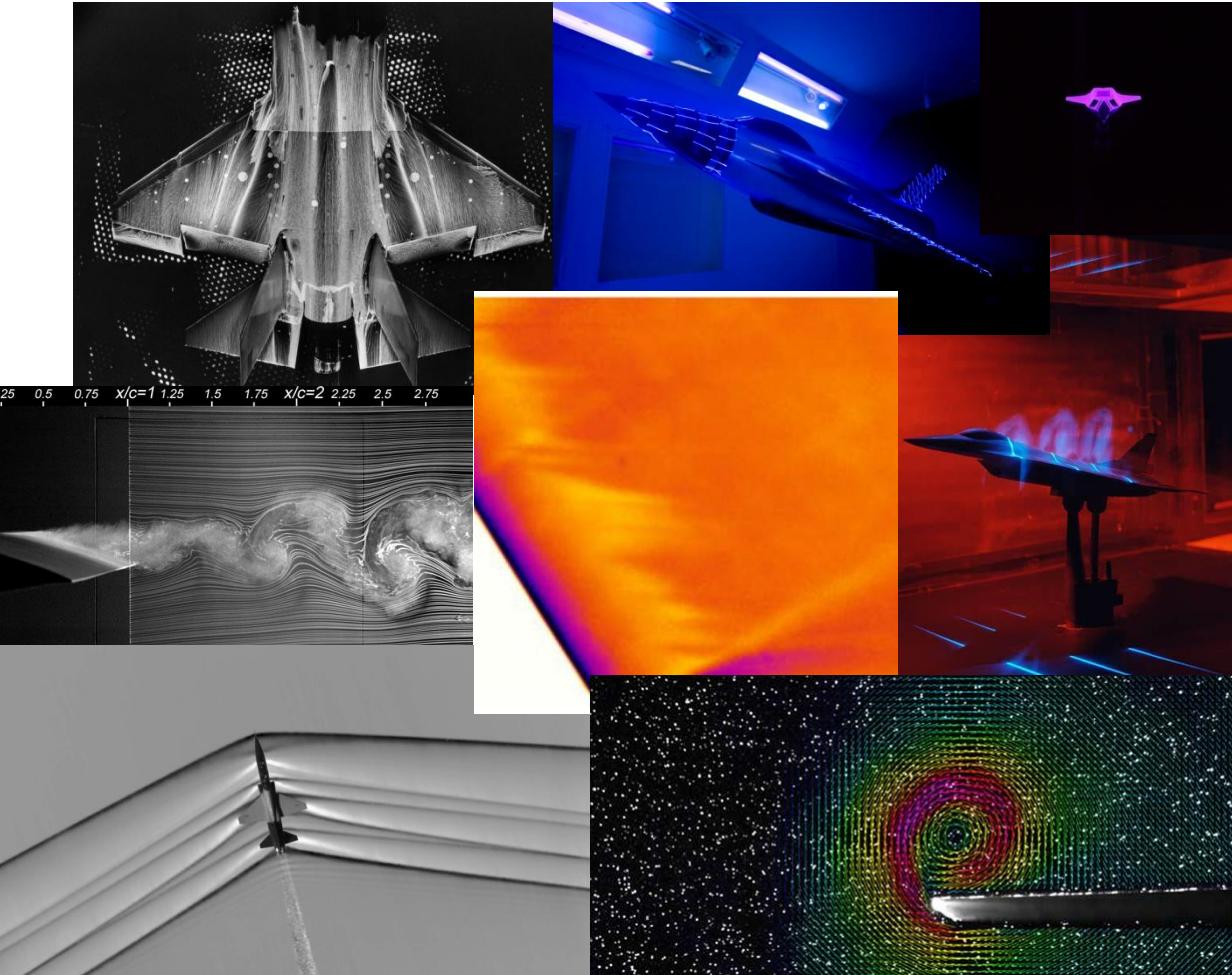
# Why Do It?

Diagnose flow phenomenon on and off the aircraft.

Need more than "discrete" data

## What kinds are there?

- On Body
  - Oil / Chalk Flow
  - Tufts
  - Liquid Crystal
  - Infrared Surface
  - Pressure Sensitive Paint
- Off Body
  - Smoke Flow
  - Bubble/Dye Flow
  - Schlieren / Shadowgraph
  - Laser Vapor Sheet
  - Particle Image Velocimetry



- Dye Flow (2:59)
- Oil Flow (0:00)
- Schlieren (2:10)
- “Smoke” Flow (6:25, 9:47)
- Chapter Video