

Speed-Precision-Maneuverability-Strength-Success-Accuracy-Modern-Impressive-Engineered-Professional-Luxurious-Experienced-Tough-Imperative-Safety-Attack-Beauty-Dependent-Qualified-Cooperative-Military-Power-Advanced-Pinpoint-Veteran-Legendary-Technology-Stealth-Artificial Intelligence-Radar-Defense-Vicious-GPS-Hardpoints-Efficiency Sleek-Agile-Aerodynamic-Supersonic-Dogfight-Air Superiority-Thrust-Afterburner-Thrust Vectoring-Mach-Intercept-Evasion-Precision-guided Munitions-Avionics-Cockpit-G force-High altitude-Vertical takeoff-Canopy-Wingtip-Thrust to weight ratio-Fly by wire-Infrared-Countermeasures-ECM-Active Sensors-Afterburner-Supercruise-Swept wing-Air to air-Air to ground-Multirole-Supersonic Cruise-Delta Wing-In flight Refueling-Thrust Reverser-Turbine Engine-Doppler Radar-Inertial Navigation System-Heads up Display-Low altitude-Electronic Warfare-Beyond Visual Range-Hypersonic-Tactical-Stealth Coating-Target Acquisition-Fire Control System-Supersonic - Agility - Stealth - Mach speeds - Aerodynamics - Afterburner - Thrust vectoring - Radar-evading - Dogfighting - Missile defense - Precision strikes - Air superiority - High-altitude performance - Combat aircraft -

FIGHTER JETS

555

An Extensive Analysis of United States Fighter Jets

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Multirole capabilities - Supercruise - Electronic warfare - Target acquisition - Air-to-air combat - Ground attack - Infrared sensors - Weapon systems - Beyond visual range - In-flight refueling - High-G maneuvers - Avionics - Countermeasures - Vertical takeoff and landing - Low observable technology - High maneuverability - Cockpit displays - Jet engines - Tactical reconnaissance - Night vision capabilities - Inertial navigation systems - Advanced weaponry - Firepower - Quick response - Supersonic interceptors - Combat air patrol - Integrated systems - Anti-radiation missiles - In-flight communication - Low radar cross-section - Air defense - Stealth coatings - Precision-guided munitions - Covert operations - Close air support - Aerobatic maneuvers - Enhanced situational awareness - Advanced avionics - Electronic countermeasures - Advanced target tracking - Jet propulsion - Combat readiness - Air dominance - Weapons integration - Next generation fighters



Introduction

Proposal

In this project, we aim to analyze the various fighter jets of the United States military, compare their capabilities and rolls in relation to each other, the ideal fighter jet, and non-U.S. fighter aircraft, and assess how they fit into national and international defense and offensive military structures. We will research each plane individually and gather statistics as a group of specifications and other information. We will take necessary measures to ensure that the sources we use are reliable and credible (e.g., are military or government sites), that we incorporate recent information and related news events, and that we answer pressing and oft-asked questions regarding the U.S.'s fighter aircraft.

Format

The data we gather will be presented in a strategic and organized manner. The format will be three modules of five chapters each, a.k.a. 555, representing the name of this project.

Namesake

The “555” in both the project name and the formatting were chosen to honor the 555th Triple Nickel Squadron of F-16 Fighting Falcons, whose home is the Aviano Air Base in Italy. Captain Scott O’Grady, the F-16 pilot who was shot down over Bosnia/Herzegovina, was a member of the Triple Nickel Squadron. For more information about this intriguing incident, read his book *Basher Five-Two*, which gives a detailed description of his escape and evasion as well as the F-16’s flight procedures.

Detailed Proposal

Scoping out possibilities

Asking questions

Choosing what to include and exclude

Aircraft Profiling

Aircraft

F-14, F-15, F-16, F-18, F-22, F-35; Su-75 J-20, Su-57, FC-31; Typhoon, Rafale, Mirage, MiG-29, Saab JAS 39, Su-27

Content

Names, specifications, dates, short history, rankings, images, full-dimensional models

Structure

Details

Brief Fighter Jet History

Early Jet Fighter Age

Messerschmitt Me-262

Fighter Mafia

Names, specifications, dates, short history, rankings, images, full-dimensional models

Evolution of Fighter Jets

Specific Fighter Historical Profile