A HAMSTER MINI-TALK

FIRST 15 SECONDS

INTRODUCTION

- Give a brief bite-sized introduction to a guns only merge
- Easily grasped
- Easily practiced
- Unblock further learning

AIM

- Provide the tools to
 - Always reacquire the enemy after the merge
 - Design practice scenarios to learn this

PRELIMINARIES

- Merge here in context is two planes passing each other's 3-9 line. This will be defined as time **T+0**.
- ▶ We will cover the timeline T-3 to T+12.
- We will limit the talk to the blue aircraft performing a level or near level turn at merge.
- The content of this presentation does not cover anything after the moment of visual reacquisition of the target.

COVERED IN LATER TALKS

- BFM
- Energy Management
- Gunnery
- High aspect WVR missile environments
- COMMS (Houndog, Press, Continue, Tally, No-Joy, High Guy, Low Guy, etc.)

CAVEAT EMPTOR

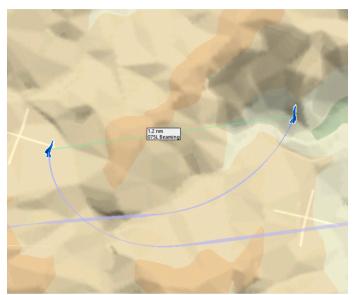
The RAZBAM M2K flight model is not complete and it's corner speed is likely to change over time. For this talk we will assume 360 kts.

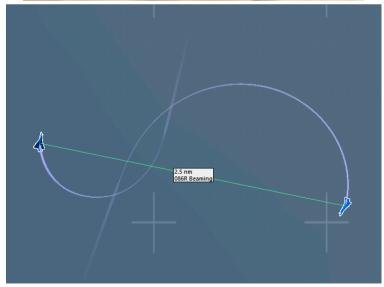
T-3

- Speed set to Corner Speed +80 to +100. A simplification for early stage learning. Corner speed around 360 kts for the DCS M2K.
- Eyes on the enemy
- Don't be an easy head on target
- Shoot if you have a good solution

T-1

- Choose:
- 1 circle fight if you have a slow speed turning advantage (e.g. vs SU-27)
- 2 circle fight if you have an energy advantage (e.g. vs F-5 or Mig-21)





- Eyes on the HUD (or airspeed indicator and ADI)
- Bank losing energy down to corner speed

- Eyes on the HUD (or airspeed indicator and ADI)
- Establish a stable energy sustaining turn at or slightly above corner speed (360 kts for the M2K)

- Eyes up 45° from the HUD and to both sides.
- If the enemy accepted a 2 circle and went high / low they will appear here within the next 2 seconds
- If the enemy accepted or forced a 1 circle fight they will appear 45° in line with your lift vector within the next 2 seconds

- Eyes up 90° from the HUD
- If the enemy accepted a 2 circle level they will appear here within the next 2-4 seconds

T+12 (AND YOU HAVEN'T ACQUIRED THE ENEMY)

- The fighter is likely below your nose if in a 2 circle
- Likely behind your 3-9 line otherwise
- Essentially you have lost the merge

HOW TO PRACTICE

- Setup an agreed scenario, eg. 1v1 right two circle level
- Merge
- When both acquire a positive Tally knock it off and reset
- If either is No Joy after 12 seconds knock it off and reset
- Repeat until proficient
- Choose a new scenario and repeat the above

FIRST SCENARIOS

- Master the following before proceeding to more advanced scenarios where the blue aircraft goes high or low
 - Level Merge two circle
 - Merge two circle, aggressor goes high
 - Merge two circle, aggressor goes low
 - Merge one circle

FINAL THOUGHTS

- The purpose of the presented information is to put you in a position where you can begin your dogfight training. I consider it a prerequisite to enable the learning.
- Only once you can merge with and find the enemy can you fight. Remember, lose sight: lose the fight!