

How to be a Test Pilot



How to be a Test Pilot

Who?



How to be a Test Pilot

Who?

What?



How to be a Test Pilot

Who?

What?

Why?



There are no such things as stupid questions...



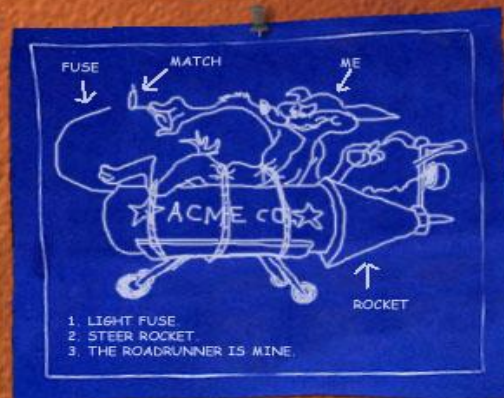
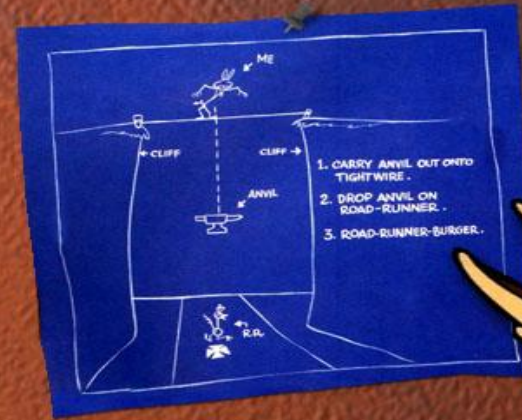
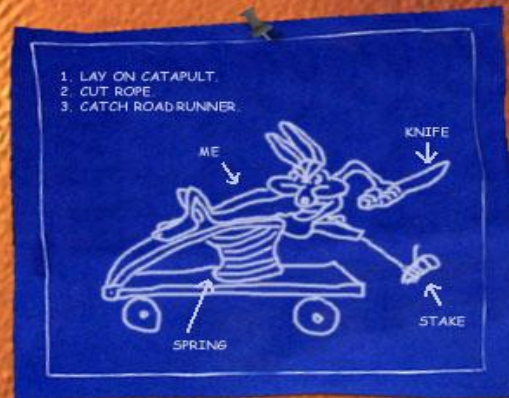
...only stupid people who ask them.



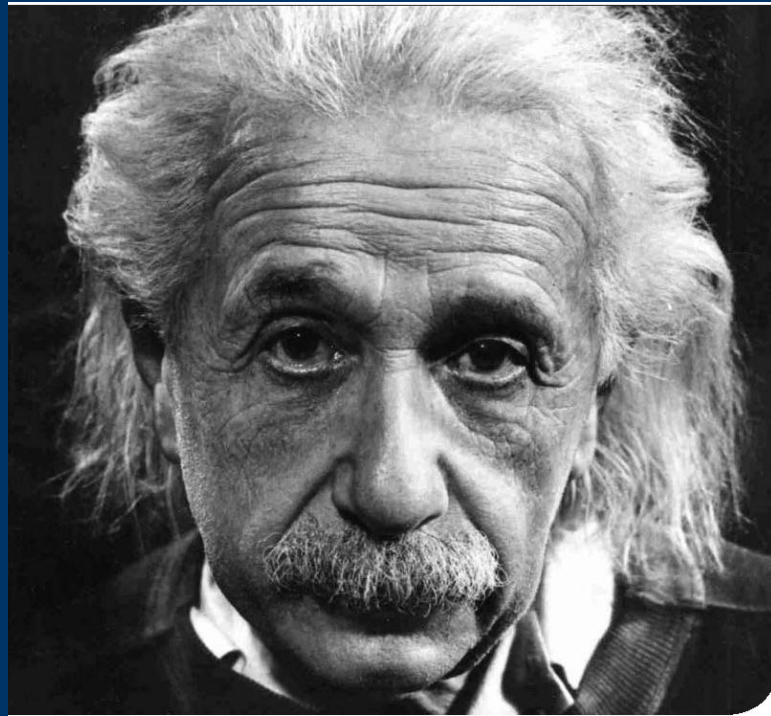
We are all stupid...



We are all Genius...



*We stand on the shoulders of
Giants...*



...because standing on your pal's shoulders can get awkward.



Critical Thinking:

Procedural



Critical Thinking:

Procedural:

Checklist-based

Flt 1063



Critical Thinking:

Procedural
Contextual



Critical Thinking:

Procedural
Contextual:

Tightly bound Paradigm

Tennis anyone?



Critical Thinking:

Procedural
Contextual
Knowledge - based



Critical Thinking:

Procedural
Contextual
Knowledge – based:

Training/Schooling

Flt 863

Critical Thinking:

Procedural
Contextual
Knowledge - based
extrapolation



Critical Thinking:

Procedural
Contextual
Knowledge - based
extrapolation:

Derived Educated guess

Flt 4889

Critical Thinking:

Procedural

Contextual

Knowledge - based

extrapolation

Experience - based



Critical Thinking:

Procedural
Contextual
Knowledge - based
extrapolation
Experience – based:

Wisdom: SUM 1,,4
Flt 1549

Critical Thinking:

Procedural
Contextual
Knowledge - based
extrapolation
Experience - based
Creative



Critical Thinking:

Procedural
Contextual
Knowledge - based
extrapolation
Experience - based
Creative:

Bold experimentation
Al Haynes, Sioux City

Critical Thinking:

Scenarios in the air:

Pilot as Tester



*Imagine a world where no
hypothetical situations exist...*



*My mother used to yell at me:
“How many times do I have to tell
you to clean your room!”*



It was a hard thing to calculate for a six-year-old.



She might as well have asked:



“How many times do I have to ask you rhetorical questions!?”

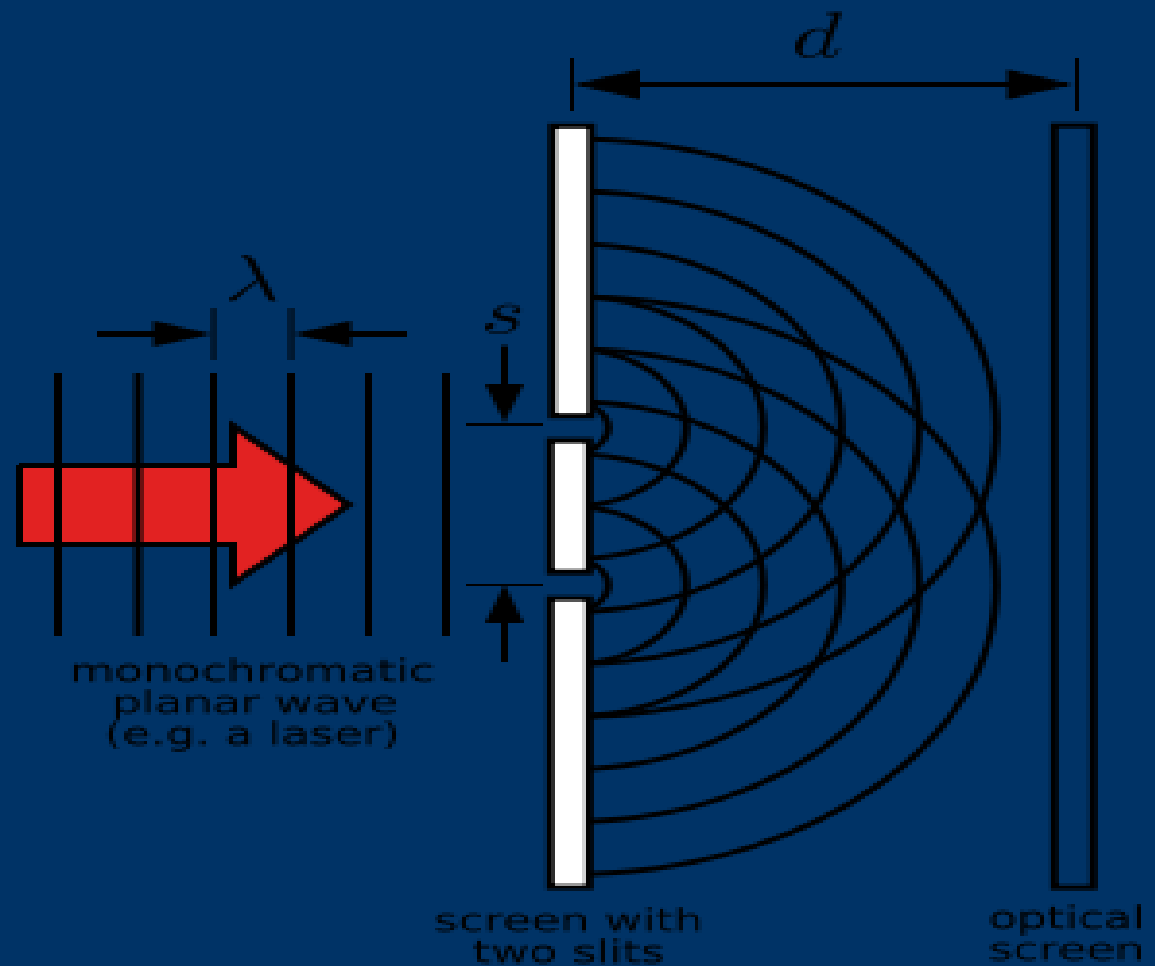


Test Design:

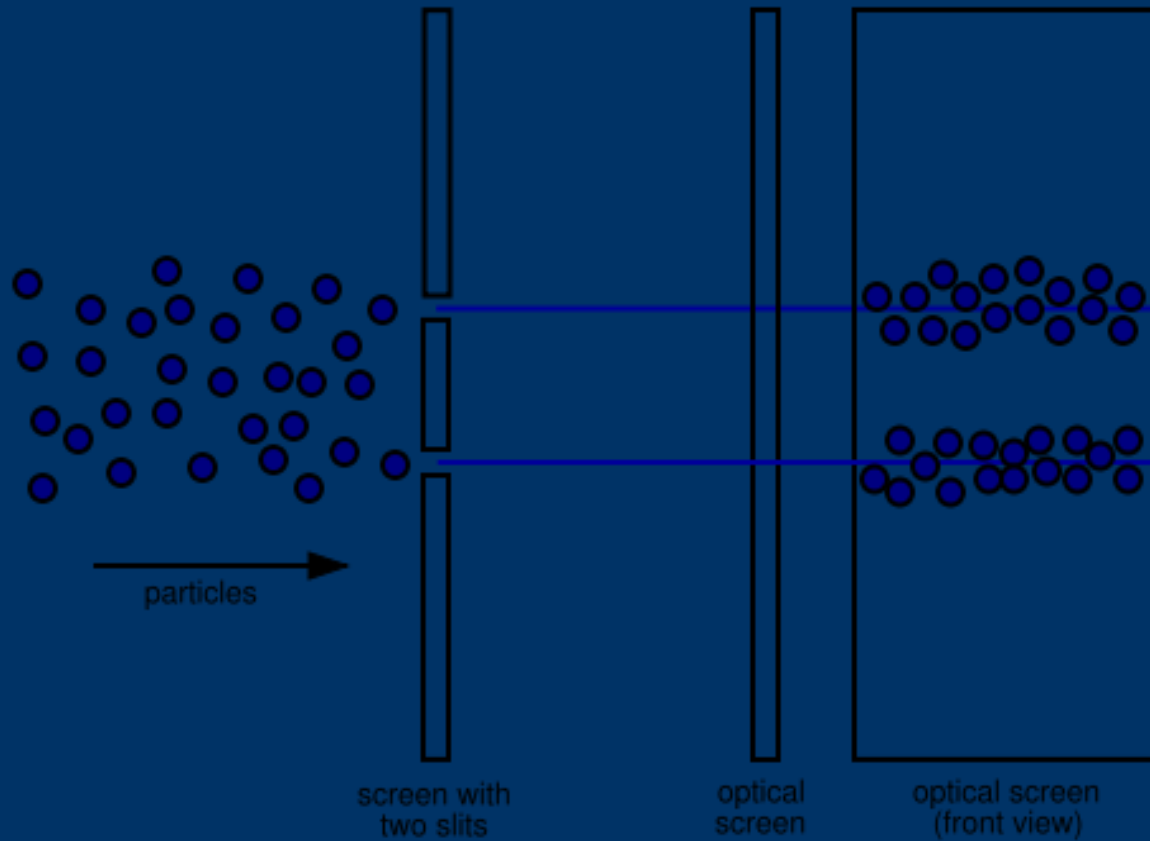
Tests are designed to give us results we expect.



Light as wave:



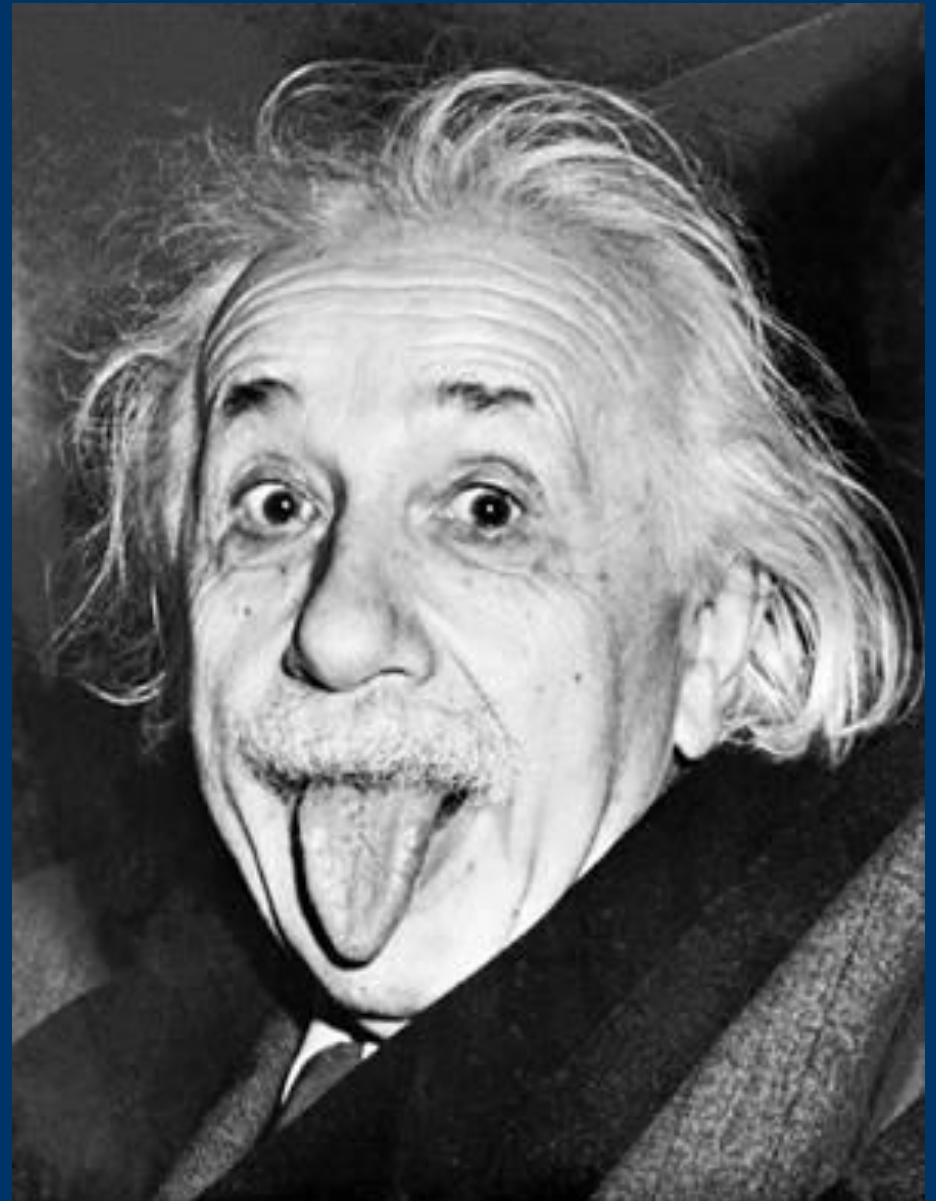
Light as particle:



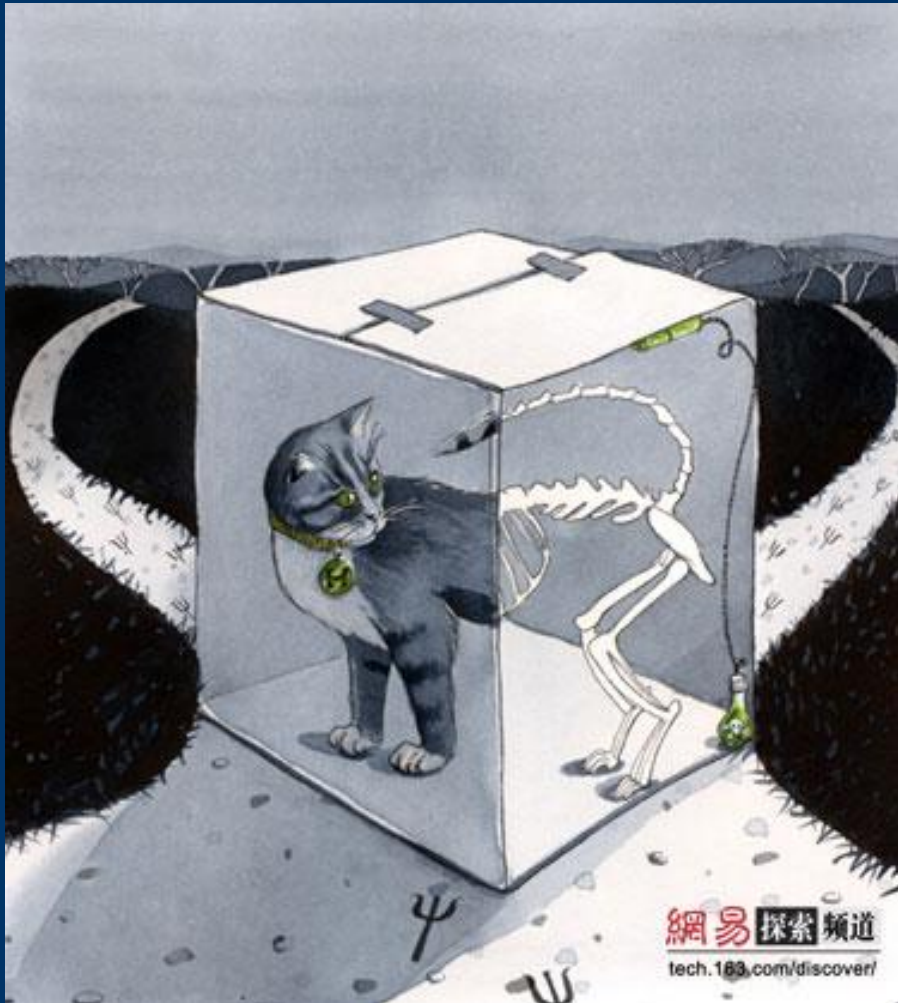
WHO'S RIGHT?



*They brought in
a Referee:*



Schroedinger's Cat:



- Explain wacky Quantum Mechanics thought experiment.
- Or not.
- Maybe I already did.
- I have no idea: it's undetermined until now.

Please Calibrate Master Computer



< calibration in progress >



< calibration in progress >

< calibration in progress >



< calibration complete >



The Danger of the Obvious



The Danger of the Obvious



The Danger of the Obvious



The Danger of the Obvious



The Danger of the Obvious



Critical Thinking:

Scenarios in the air:

Pilot as Tester

Tester as Pilot



Your First Test as Test Pilot

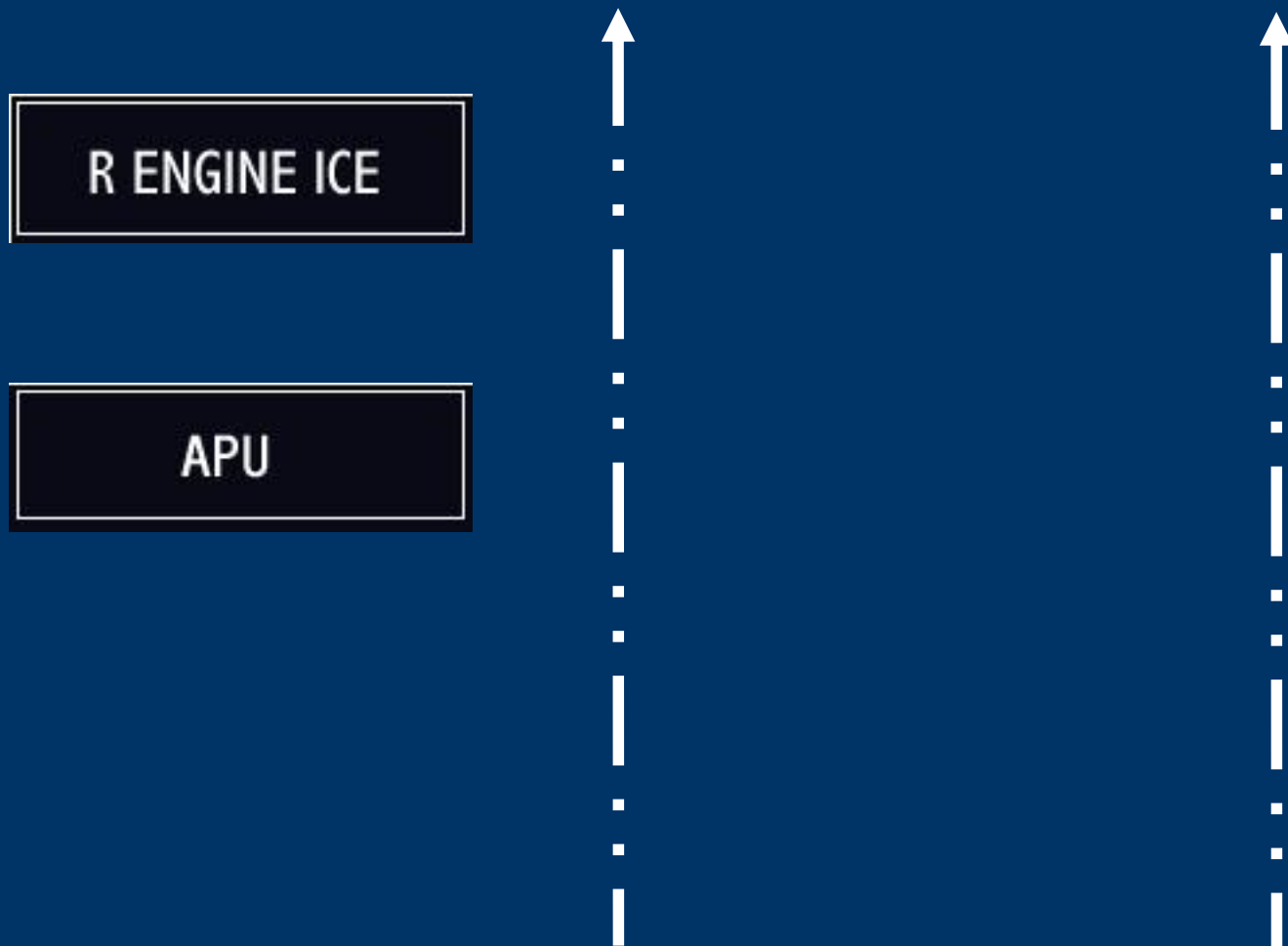


Your First Test as Test Pilot

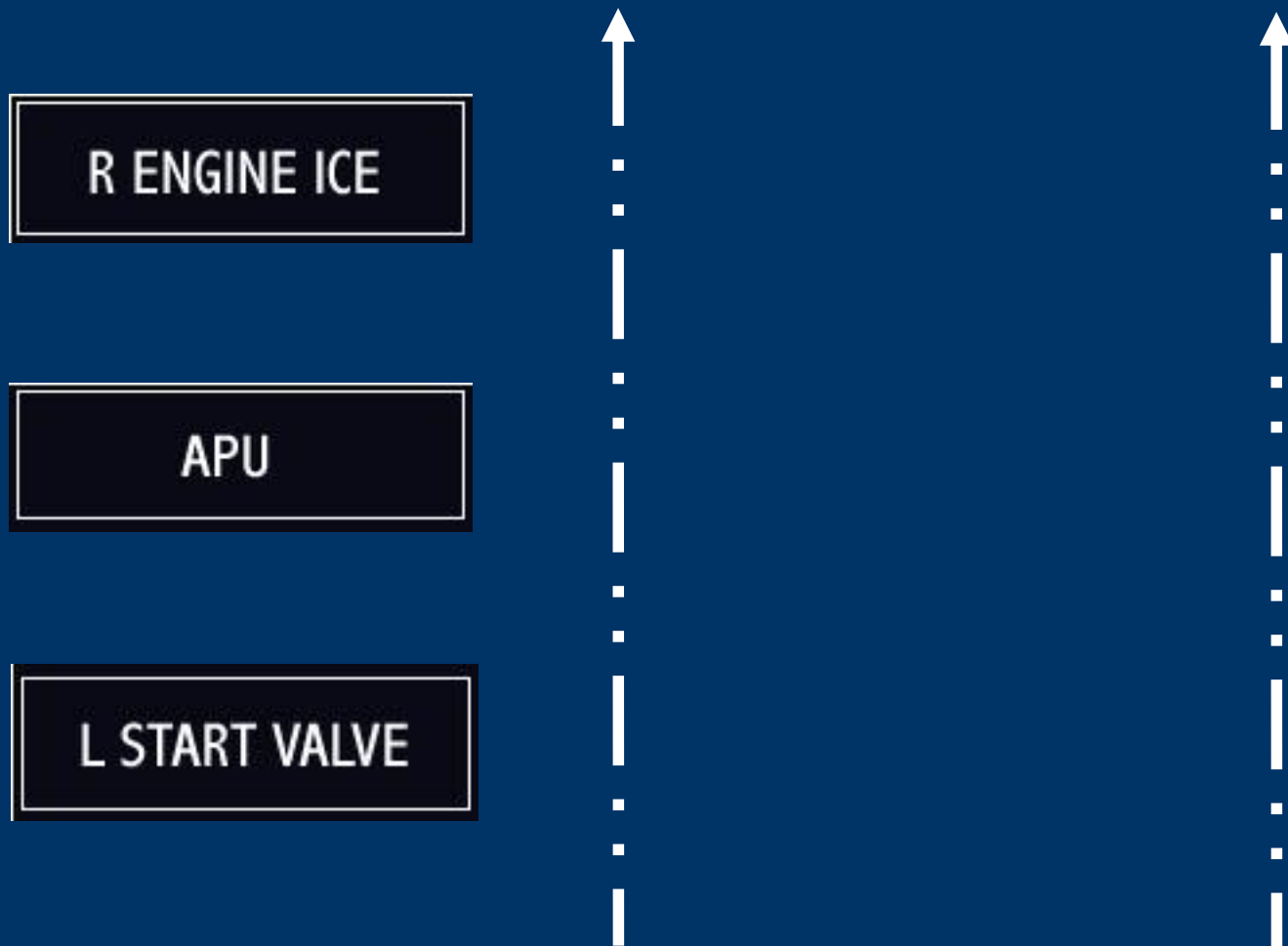
R ENGINE ICE



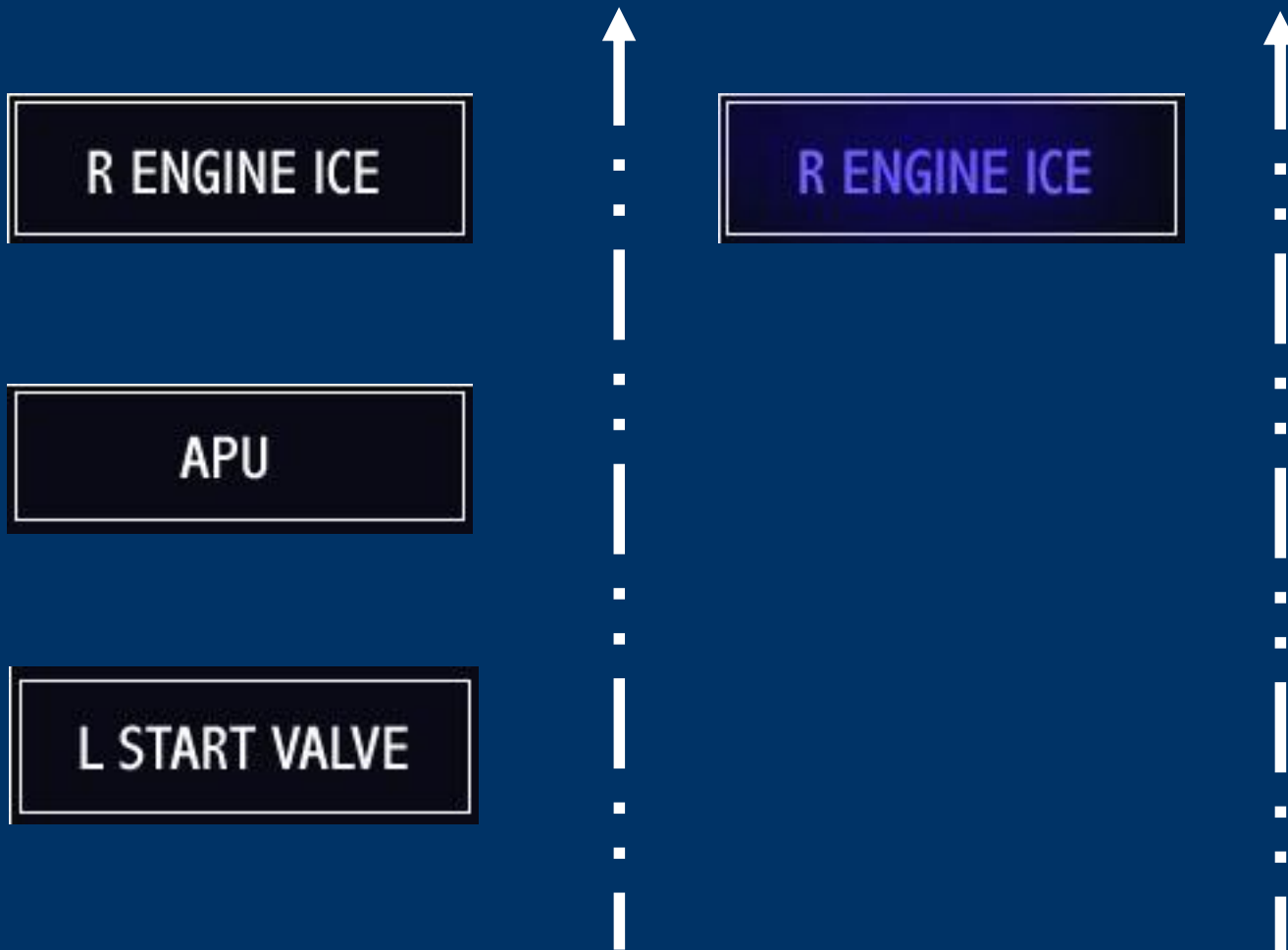
Your First Test as Test Pilot



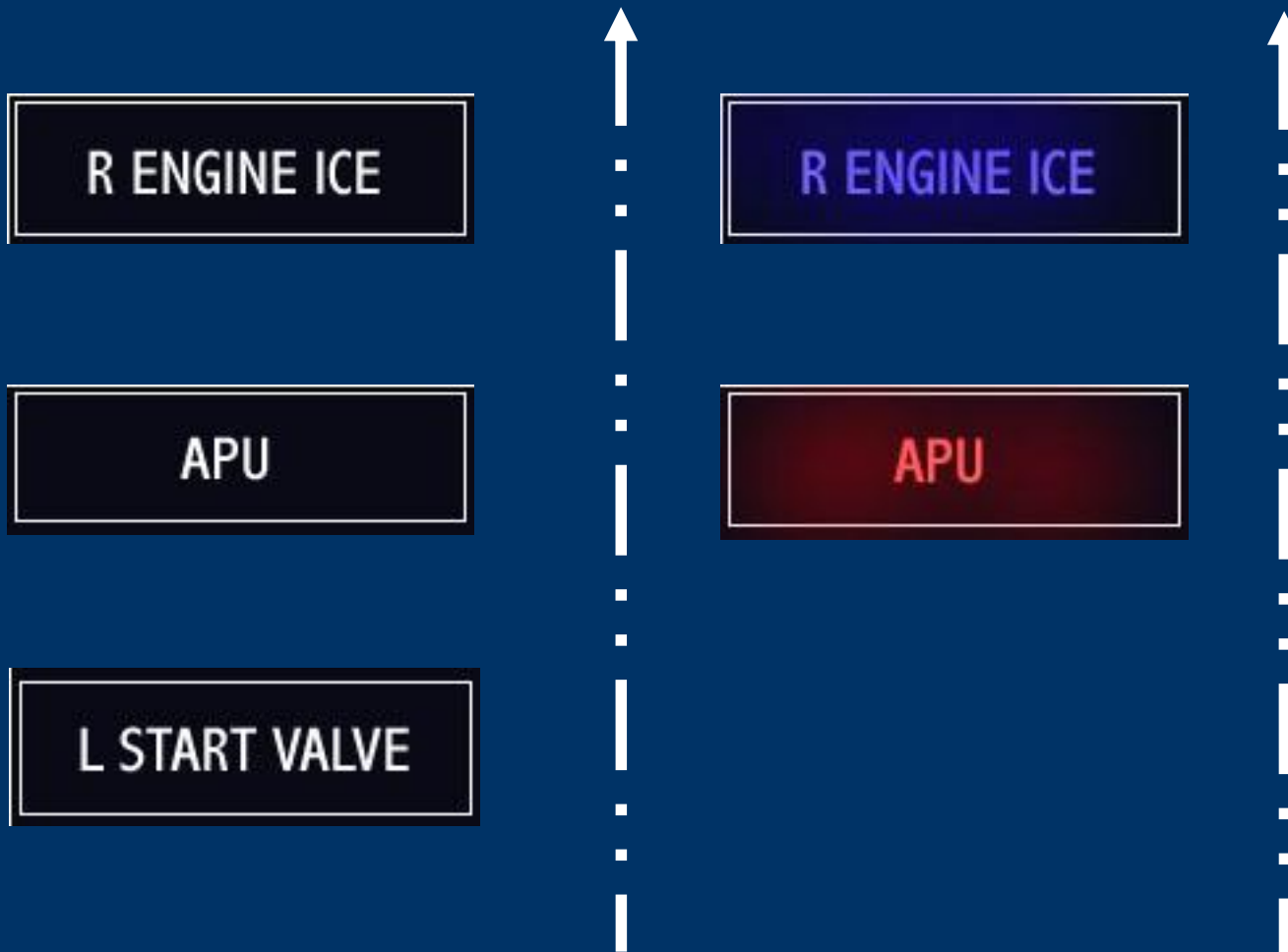
Your First Test as Test Pilot



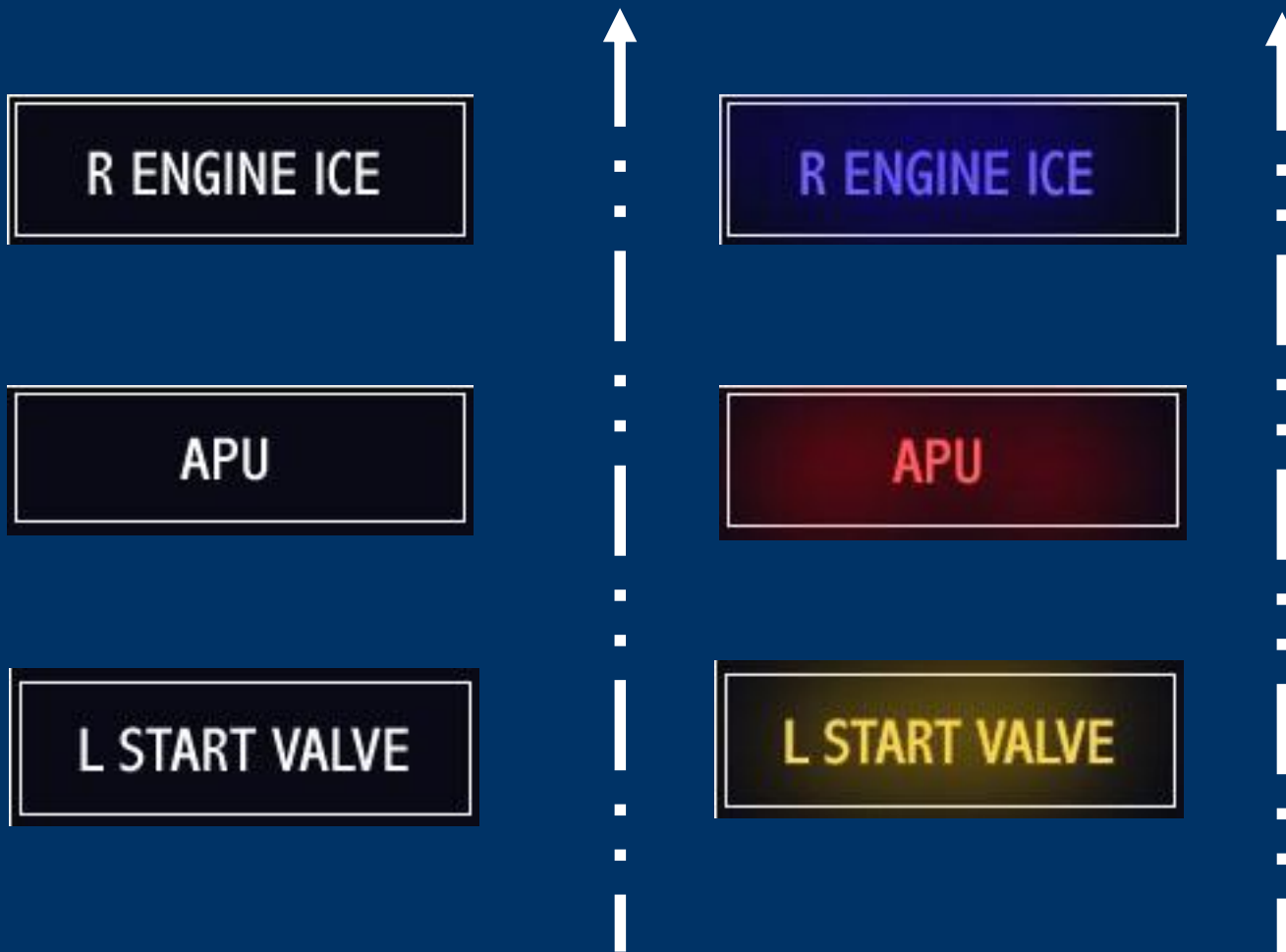
Your First Test as Test Pilot



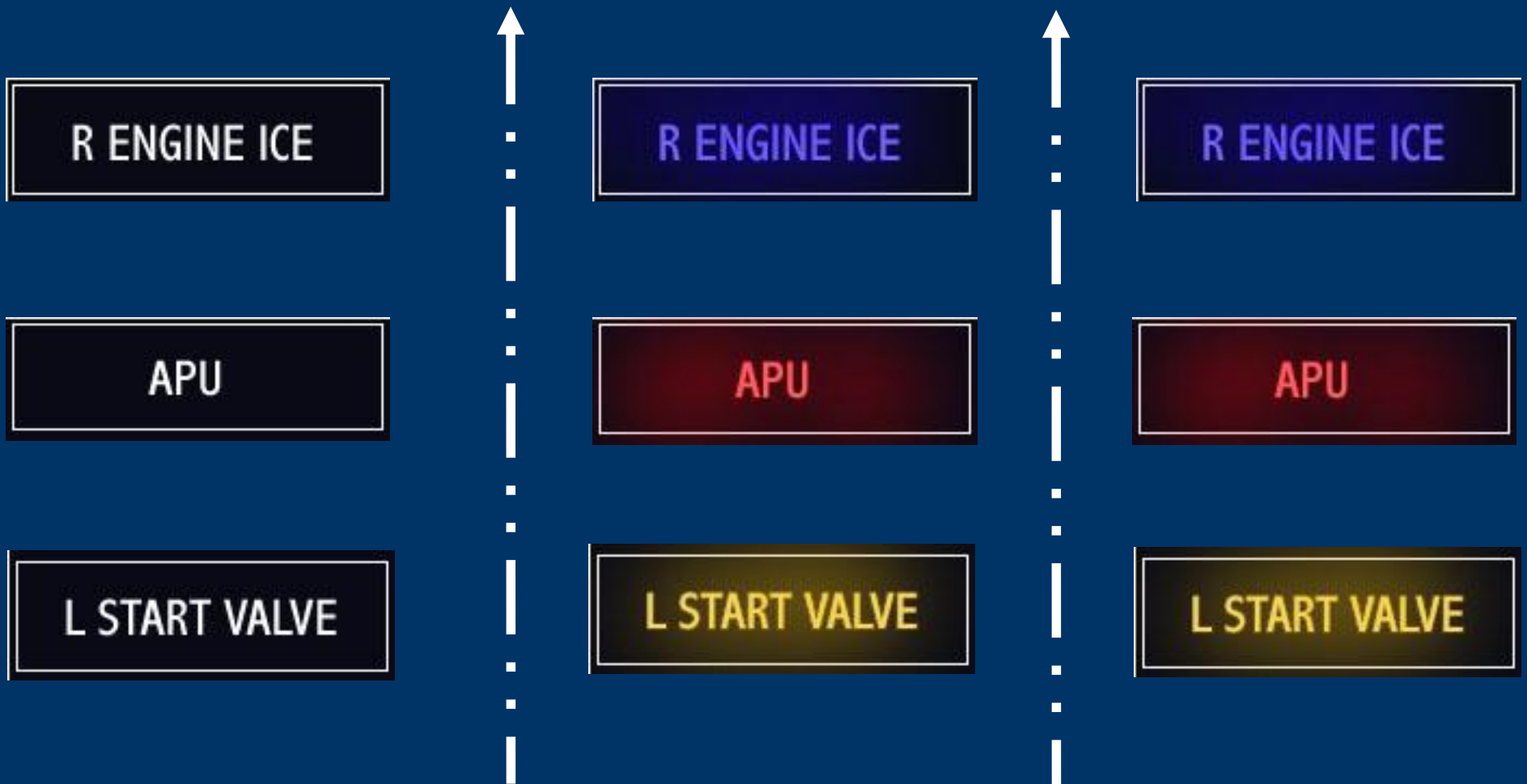
Your First Test as Test Pilot



Your First Test as Test Pilot



Your First Test as Test Pilot



Easy: “Hey, why is that light on?”

CTR FUEL LO PRESS



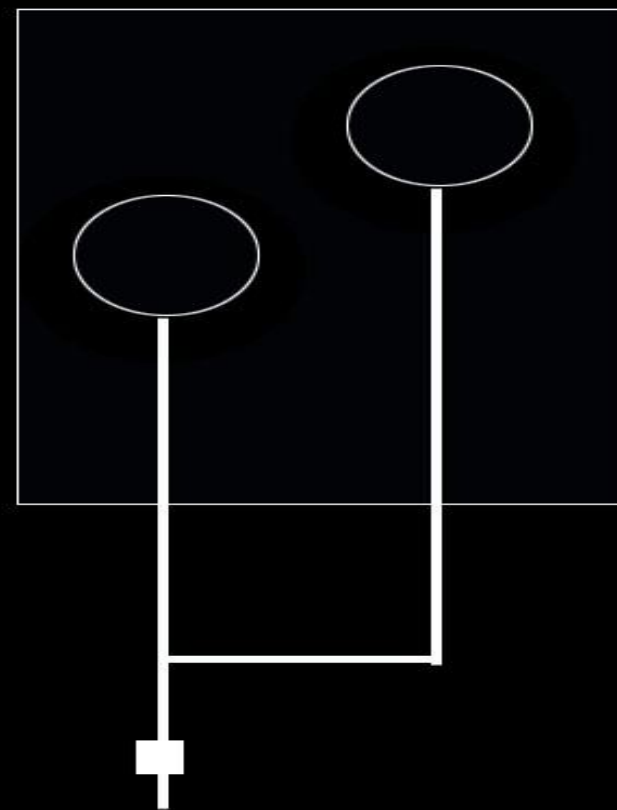
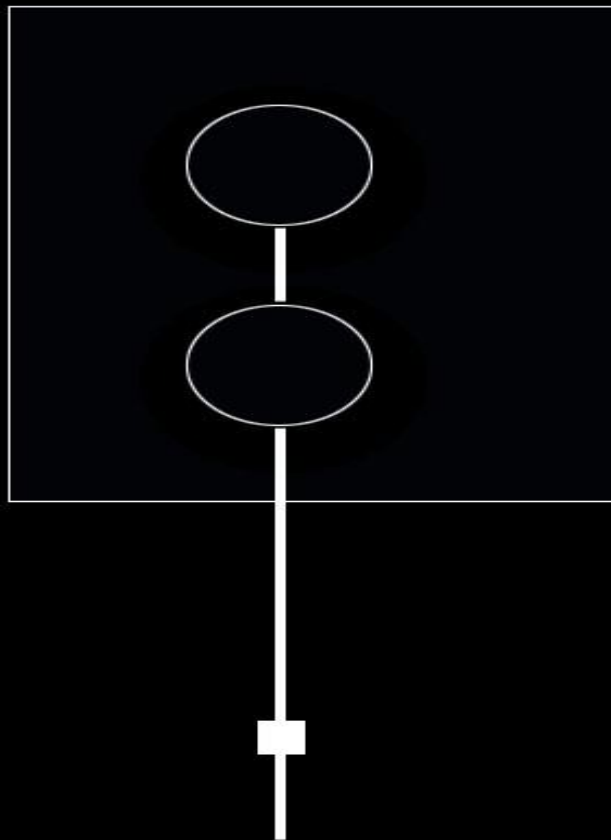
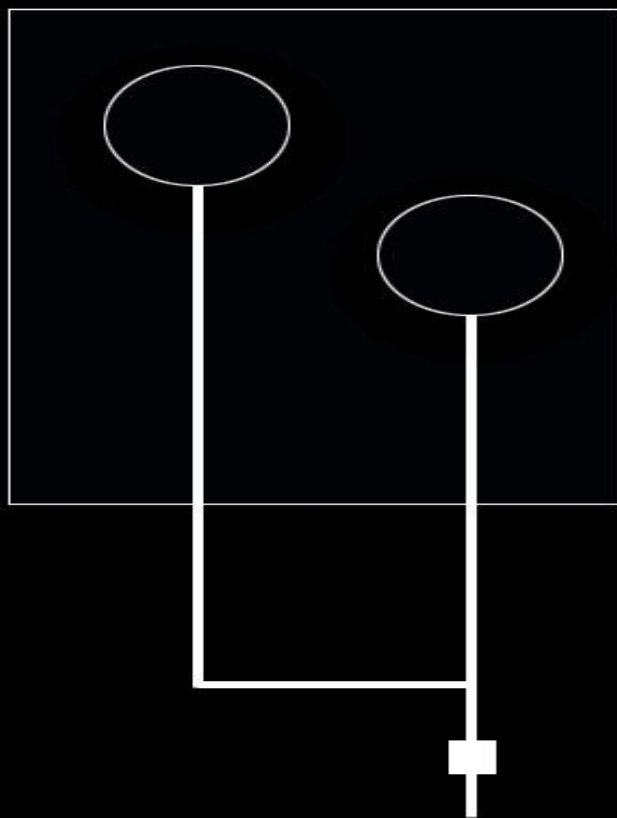
Easy: "Hey, why is that light on?"

CTR FUEL LO PRESS

CTR FUEL

L TANK

R TANK



Easy: “Hey, why is that light on?”

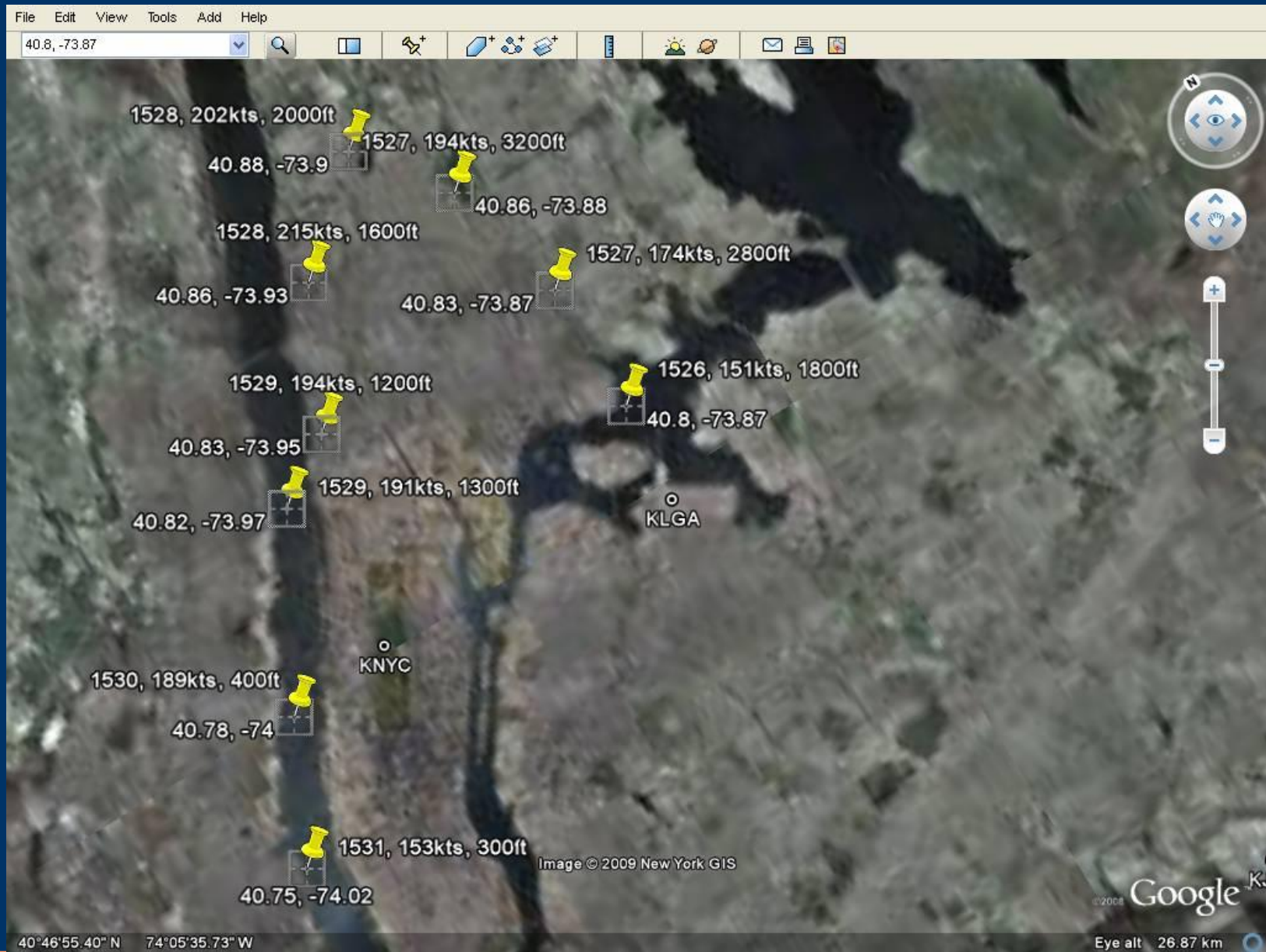
CTR FUEL LO PRESS



Flight 1549 goes swimming



1549 track



Colgan 3407



Great Balls-O-Fire

I left my nose in SFO

Tested to Death

Bad Day at Blackrock

*Altitude

*Airspeed

*Ideas

(Two out of three ain't bad)

*Thanks...and keep those beautiful
builds comin'!*

