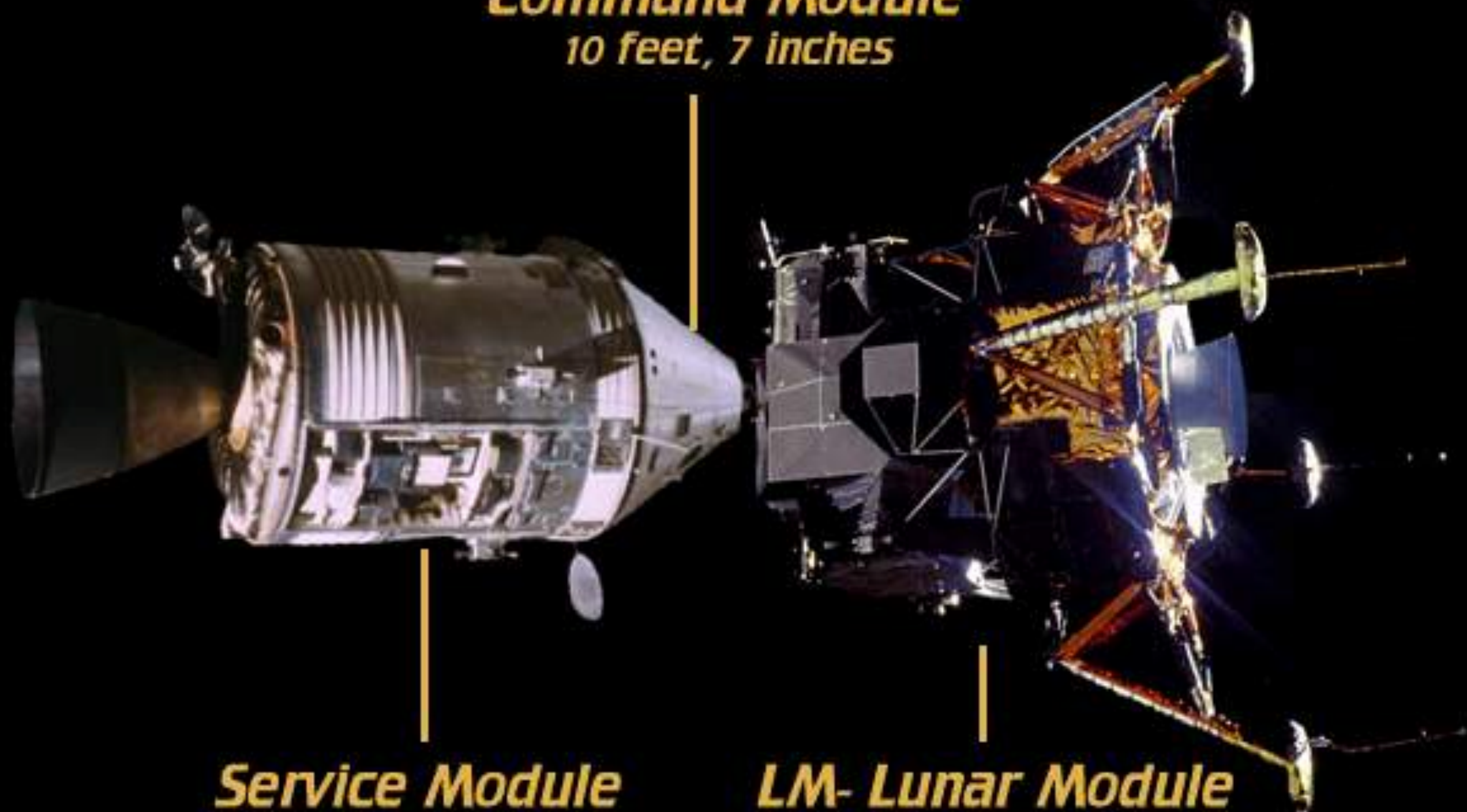








Command Module
10 feet, 7 inches

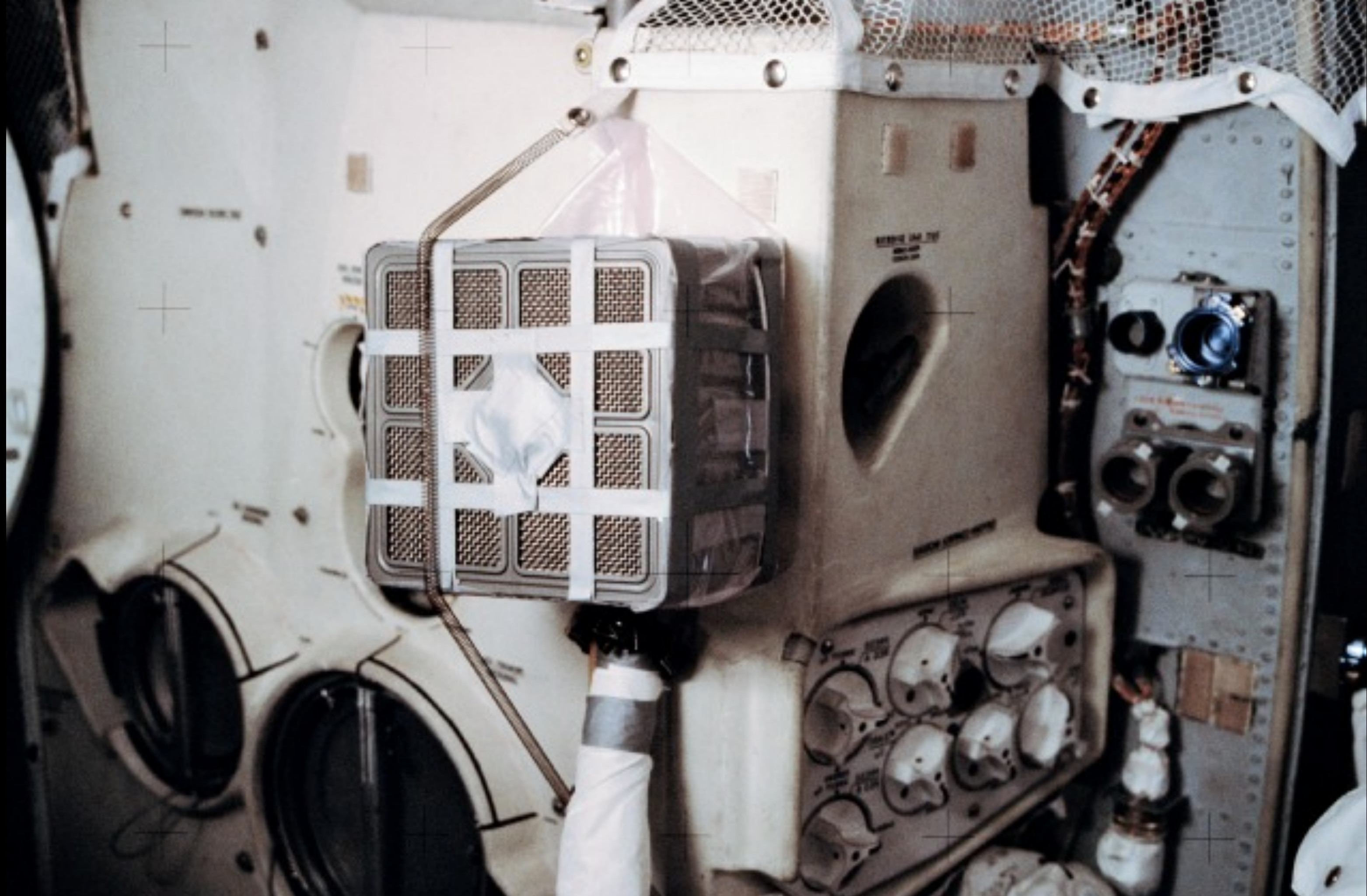


Service Module
24 feet, 2 inches

LM- Lunar Module
22 feet, 11 inches











Ed Smylie, Crew Systems Division

**“When we found out we had
duct tape on board...we were
pretty well home free.”**



DEMYSTIFYING MACGYVER:

CREATIVE PROBLEM SOLVING WITH A MULLET

Evan Booth

@evanbooth

evanbooth.com

evanbooth@gmail.com

evanbooth@evanbooth.evanbooth

evanbooth://evanbooth.evanbooth/evanbooth

evanboothevanboothevanboothevanboothevanboothevanboothevanbooth

vanboothevanboothevanboothevanboothevanboothevanboothevanbooth

FORT

[HTTP://FORT.NINJA](http://fort.ninja)



FALE ASSOCIATION OF LOCKSPORT ENTHUSIASTS

CERTIFICATE OF ORDINATION

*In accordance with the authority vested in them,
the trustees of this institution certify*

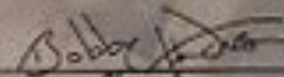
FALE ASSOCIATION OF LOCKSPORT ENTHUSIASTS

has been ordained as a minister of the

Church of the Flying Spaghetti Monster

May 19, 2014

Dated



Signed

209-894

Registry



Two things:

1. Airport Security

2. Creative Problem Solving

3. Counting fundamentals

TERMINAL **CORNUCOPIA**

Ronald Reagan Washington National Airport

The Metropolitan Washington Airports Authority operates Reagan National Airport. Our goal is to make your travel experience in the Nation's Capital a pleasant one.

Passenger Services

A variety of conveniently located Shops, Eateries, and Services are in National Hall and throughout the Airport. Maps and detailed information are available at the Information Counters.

Access for Travelers with Disabilities

Wheelchairs and assistance are available by contacting your airline's representatives. Visual Paging is available throughout Terminal 1 and 2 and TTY lines are in all terminals.

Ground Transportation

Shuttles are available on the Baggage Claim level at each Terminal where a dispatcher will assist you. Express van service is offered. Metro's Silver Line RapidRide system is available on the Airport (See Map). Airport Shuttles provide service to parking facilities and rental cars. Please inquire at the Ground Transportation Information Counters on the Baggage Claim level at Terminal 1 and 2 for further information.

General Aviation Terminal

Airport shuttles provide service to the General Aviation Terminal from the shuttle bus stops in front of Terminal A and the Baggage Claim level of Terminal 1 and 2.

Symbol Legend

- | | |
|-------------------------|--|
| ADK/ Cash | Police |
| Baggage Information | Restrooms - Companion Care |
| Chapel | Restrooms - Men |
| Elevators | Restrooms - Women |
| Escalators | Security Screening |
| Ground Transportation | Shops & Eateries |
| Hotel/Hotel Information | Shuttle to Terminal |
| Information Counter | Ticketing |
| Lost and Found | Travelers Aid Society
Baggage Claim Level |
| Mail Drop | USO
United States Organization
located in Terminal 1 |
| Metro Station | |

Smoke Free Facility

Map Current as of 10/2012

Problem

Items that are commonly available for purchase in an airport terminal can be used to build lethal weapons.

METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

Rules

- 1.** Can only use materials that can be sourced inside the terminal *after* the security screening
- 2.** Walk in with nothing but cash and a small, travel-approved multitool
- 3.** Anything you'd get yelled at for taking or messing with is off limits

Let's Go Shopping!



Amsterdam Schiphol (AMS)

London Heathrow Airport (LHR)

LaGuardia (LGA)

John F. Kennedy International (JFK)

Ronald Reagan National (DCA)

Raleigh-Durham International (RDU)

Charlotte Douglas International (CLT)

Detroit Metro
Airport (DTW)

Phoenix Sky Harbor
International Airport
(PHX)

George Bush
Intercontinental
Airport (IAH)

ONE



FRAGGUCCINO
MARK II



x10

FRAG GUCCINO
MARK II



\$3.98

3.47

\$1.94

\$2.00











Ronald Reagan Washington National Airport

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General Aviation Terminal

Airport shuttles provide service to the General Aviation Terminal from the shuttle bus stops in front of Terminal A and the Baggage Claim level of Terminal 1 and 2.



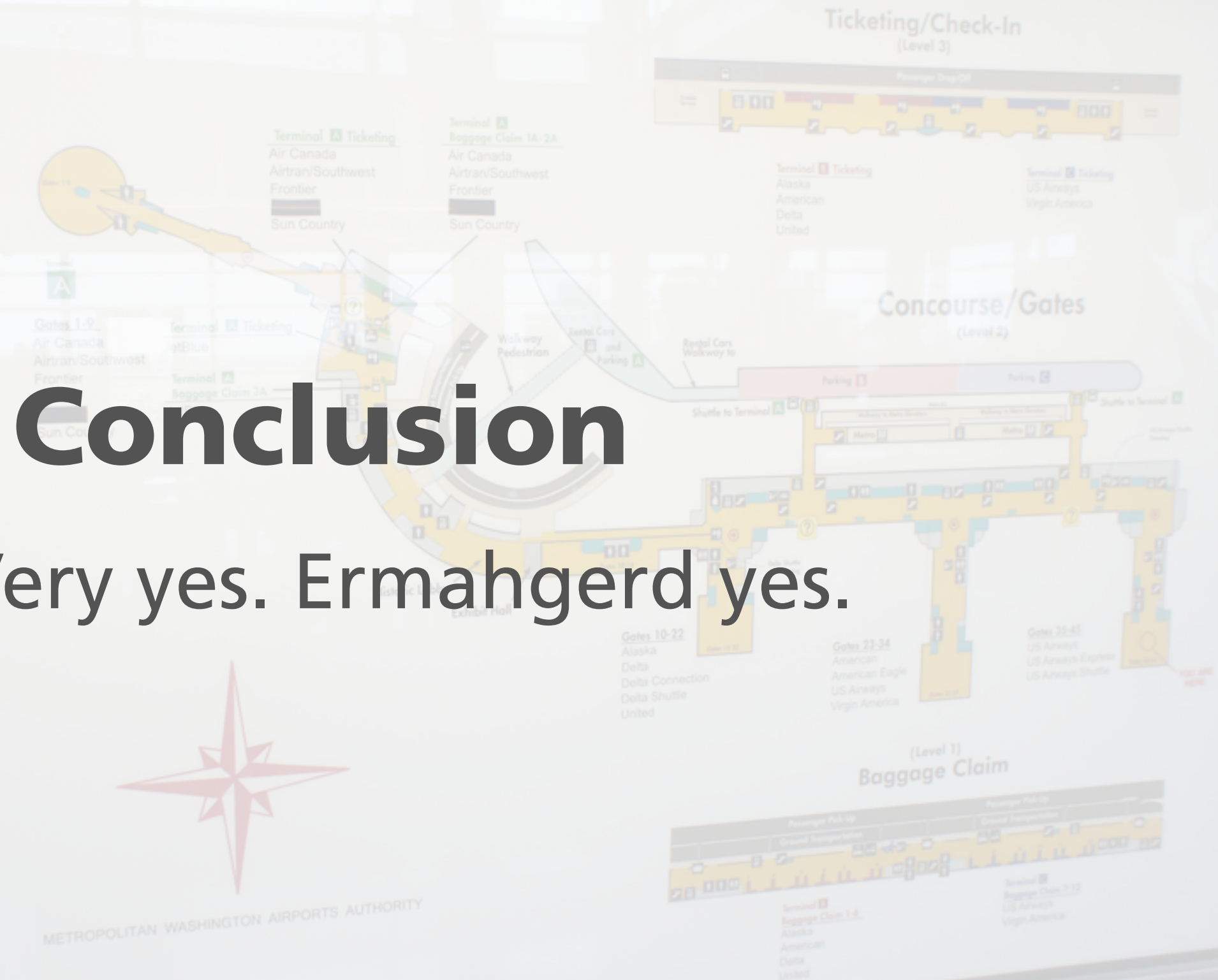
Courtesy Phones Located Throughout the Airport. Pickup handset to connect to Information Counter.

Symbol Legend

- | | |
|-------------------------|---|
| ATM/Cash | Police |
| Baggage Information | Restrooms - Companion Care |
| Chapel | Restrooms - Men |
| Elevators | Restrooms - Women |
| Escalators | Security Screening |
| Ground Transportation | Shops & Eateries |
| Hotel/Hotel Information | Shuttle to Terminal |
| Information Counter | Ticketing |
| Lost and Found | Travelers Aid Society/Baggage Claim Level |
| Mail Drop | USO |
| Metro Station | |

Smoke Free Facility

Map Current as of 10/2012



Conclusion

Yes. Very yes. Ermahgerd yes.

**“How do you come up
with this stuff?”**

Creative Problem Solving



Take this...



...and diffuse this



Creative Problem Solving

**“Problem” has a neutral
connotation**

KNOWLEDGE

EXPERIENCE

PREPARATION

CREATIVITY

KNOWLEDGE

EXPERIENCE

PREPARATION

CREATIVITY

**Look at a problem as
a collection of
systems and forces**

Remove the smoke and mirrors.

Gravity pushes water in a reservoir through a one-way valve into an aluminum tube, where the water is heated until boiling by electric current running through metal coils, which forces the water up through a thin tube before being sprayed evenly onto a perforated container.



A momentary switch is closed, triggering an integrated circuit to raise and lower the voltage on an infrared LED in a predetermined binary pattern that corresponds to the momentary switch that was closed.



Water and ammonium nitrate mix to create an endothermic reaction when the container separating the water from the ammonium nitrate is ruptured.

INSTANT COLD PACK

Instructions For Use:



1. Locate inner liquid pouch
Squeeze firmly to rupture



2. Shake to mix
contents



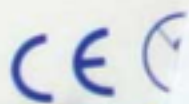
3. Apply to patient



4. Discard it

CS No. 2003101

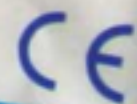
SINGLE USE ONLY



INSTANT COLD PACK

CAUTION

- For external use only. Adult supervision recommended.
- Do not puncture. If bag breaks and fluid contacts skin, or eyes, immediately flush area with large amounts of water.
- Do not swallow contents. If contents accidentally swallowed drink large amounts of water(not milk) and contact Poison Control Centre or physician.
- Cold therapy should not be used by individuals with circulatory problems, unless under the direct supervision of a physician.



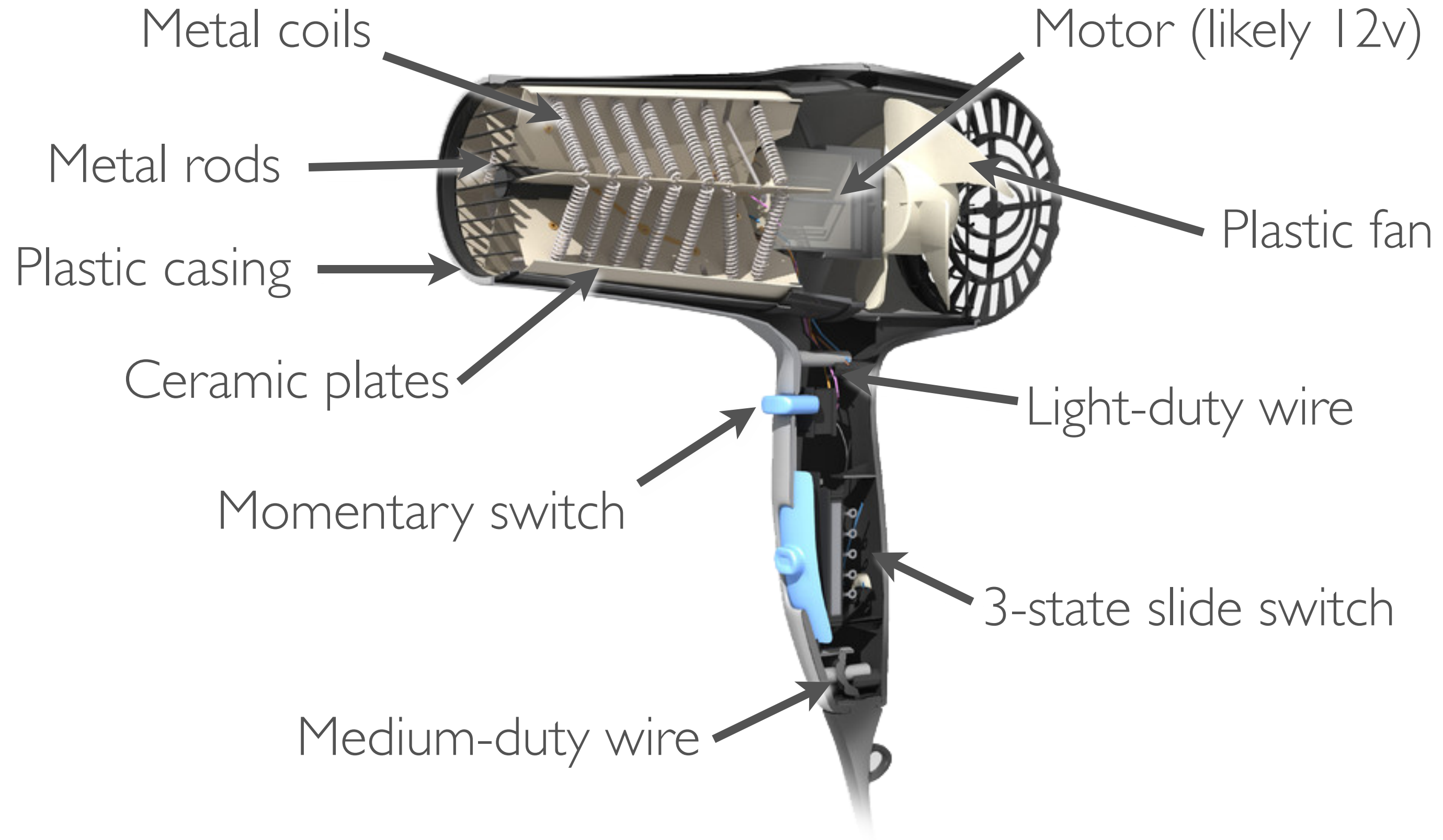
SINGLE USE ONLY



Look at this...



...and see this



...and diffuse this



**Maintain a working knowledge
of basically everything, ever.
...or keep your phone handy.**

KNOWLEDGE

EXPERIENCE

PREPARATION

CREATIVITY

**Practice has a sidekick,
and his name is Theory**

Improve dexterity

Gain familiarity with tools

**Learn how to
troubleshoot issues
(learn how to fail)**

**Experience doesn't always
have to be hands-on**







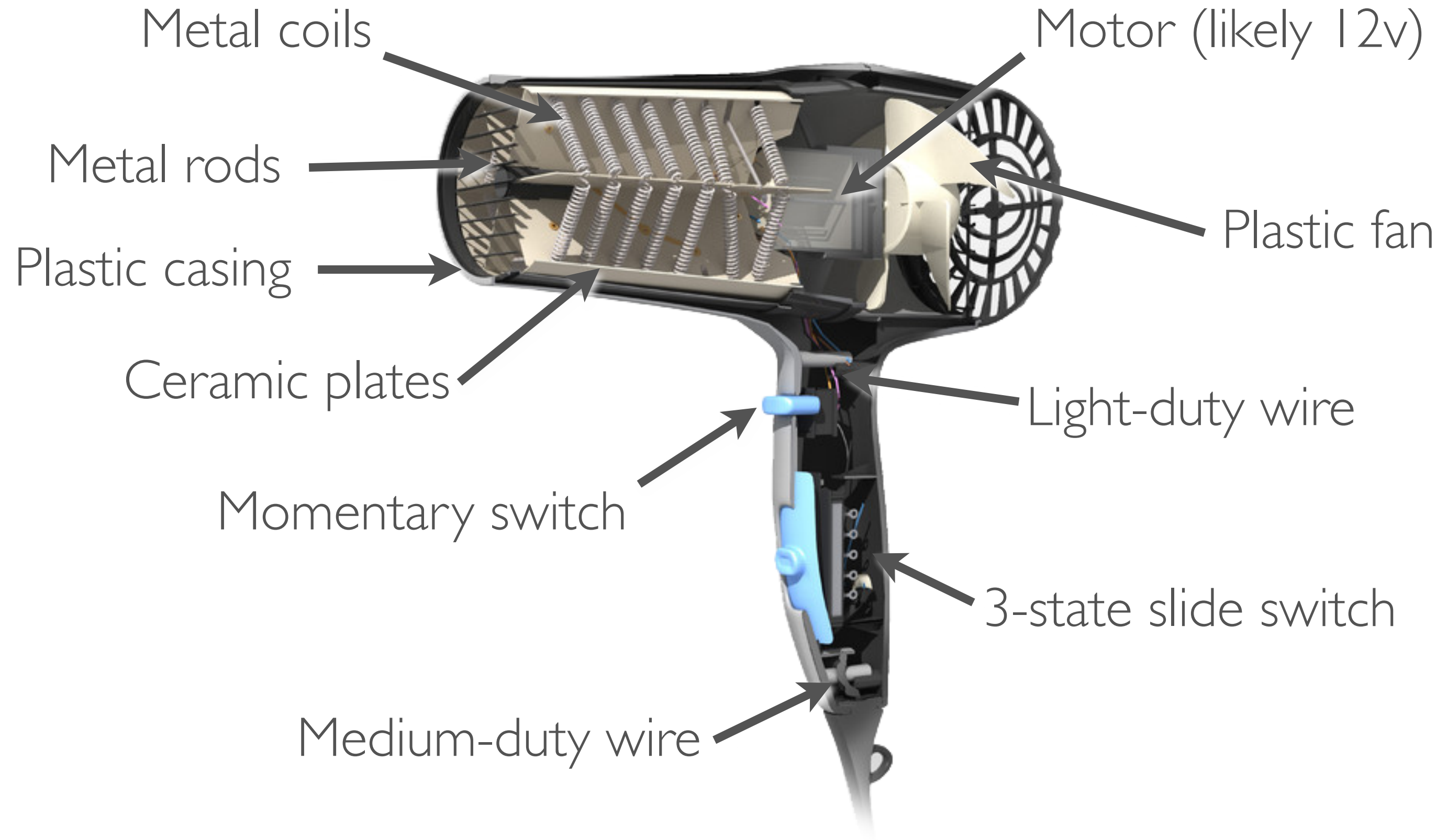




Look at this...



...and see this







...and diffuse this



KNOWLEDGE

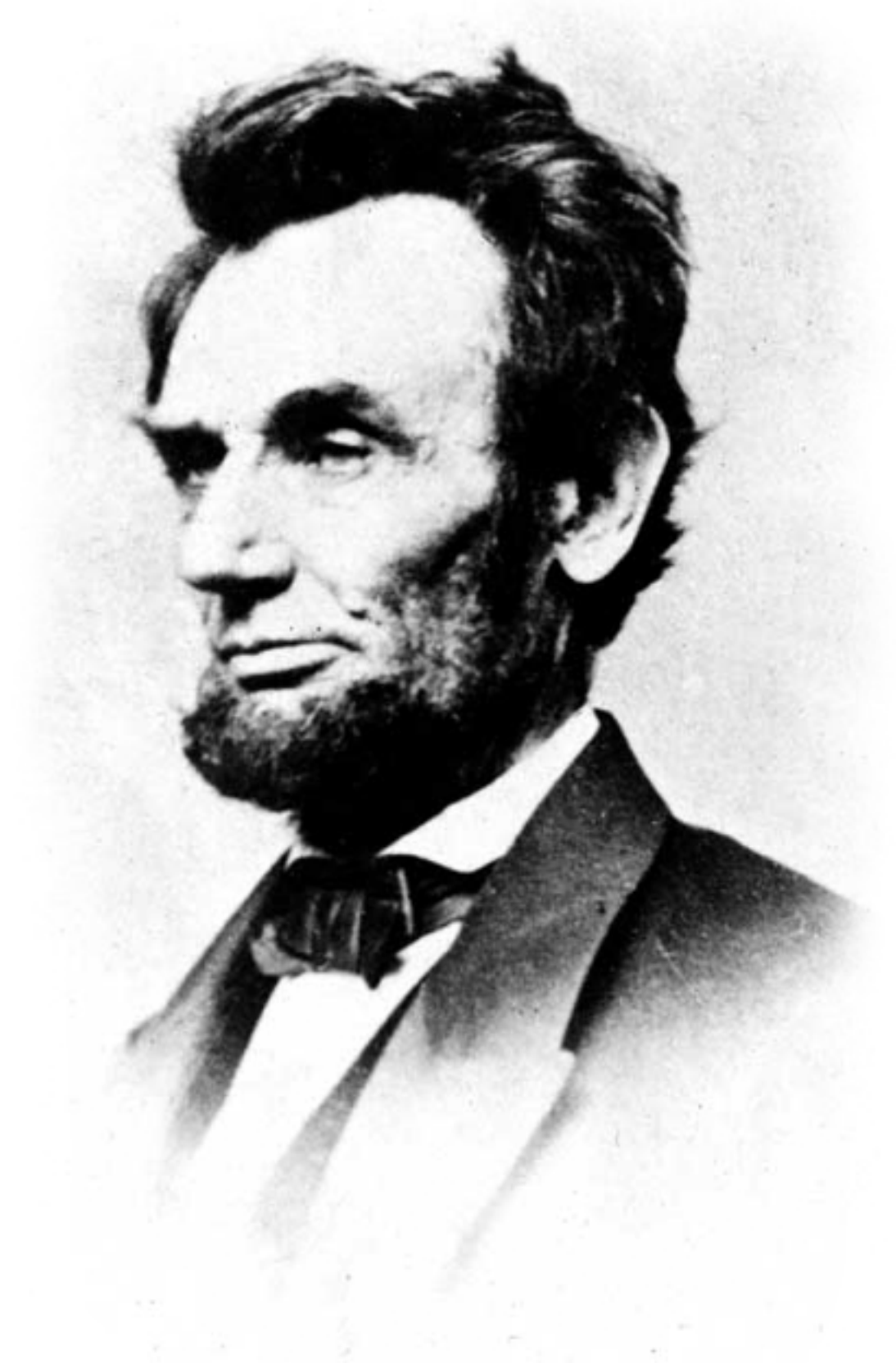
EXPERIENCE

PREPARATION

CREATIVITY

“I will prepare and
someday my
chance will come.”

– Daniel Day Lewis







**Reevaluate Your
Everyday Carry**

www.reddit.com/r/edc

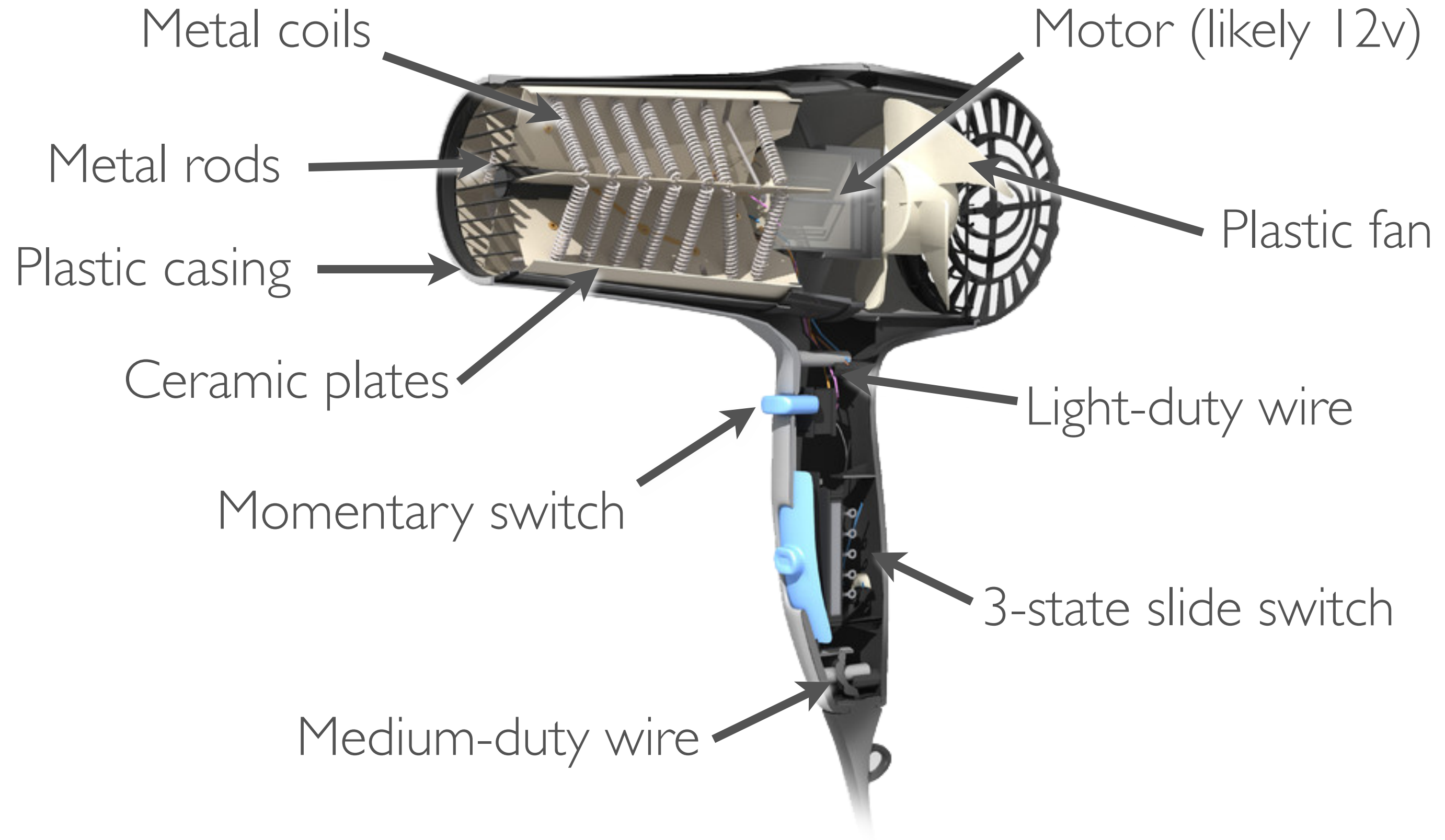


MACGYVER

Look at this...



...and see this



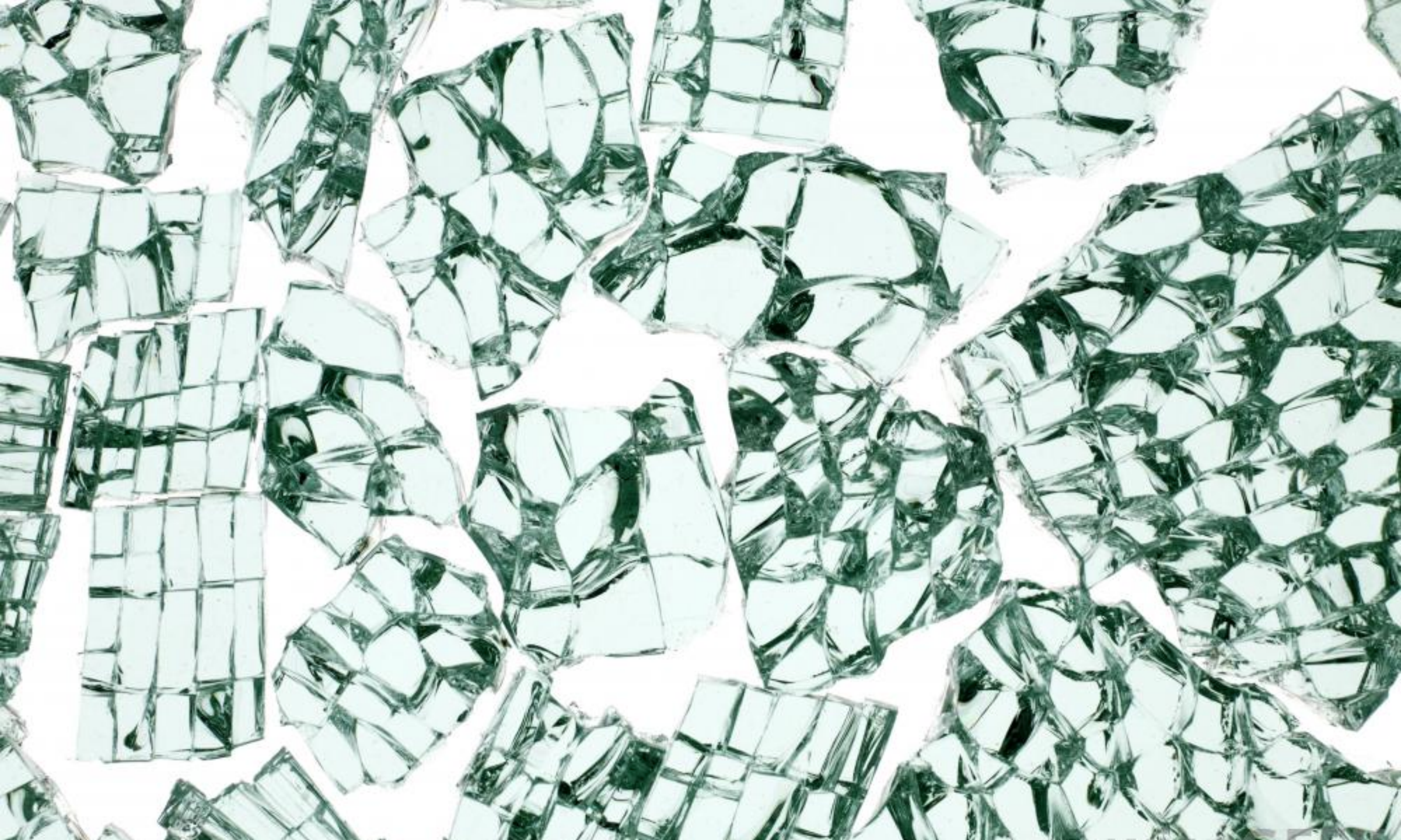








Ceramic plate



...and diffuse this



KNOWLEDGE

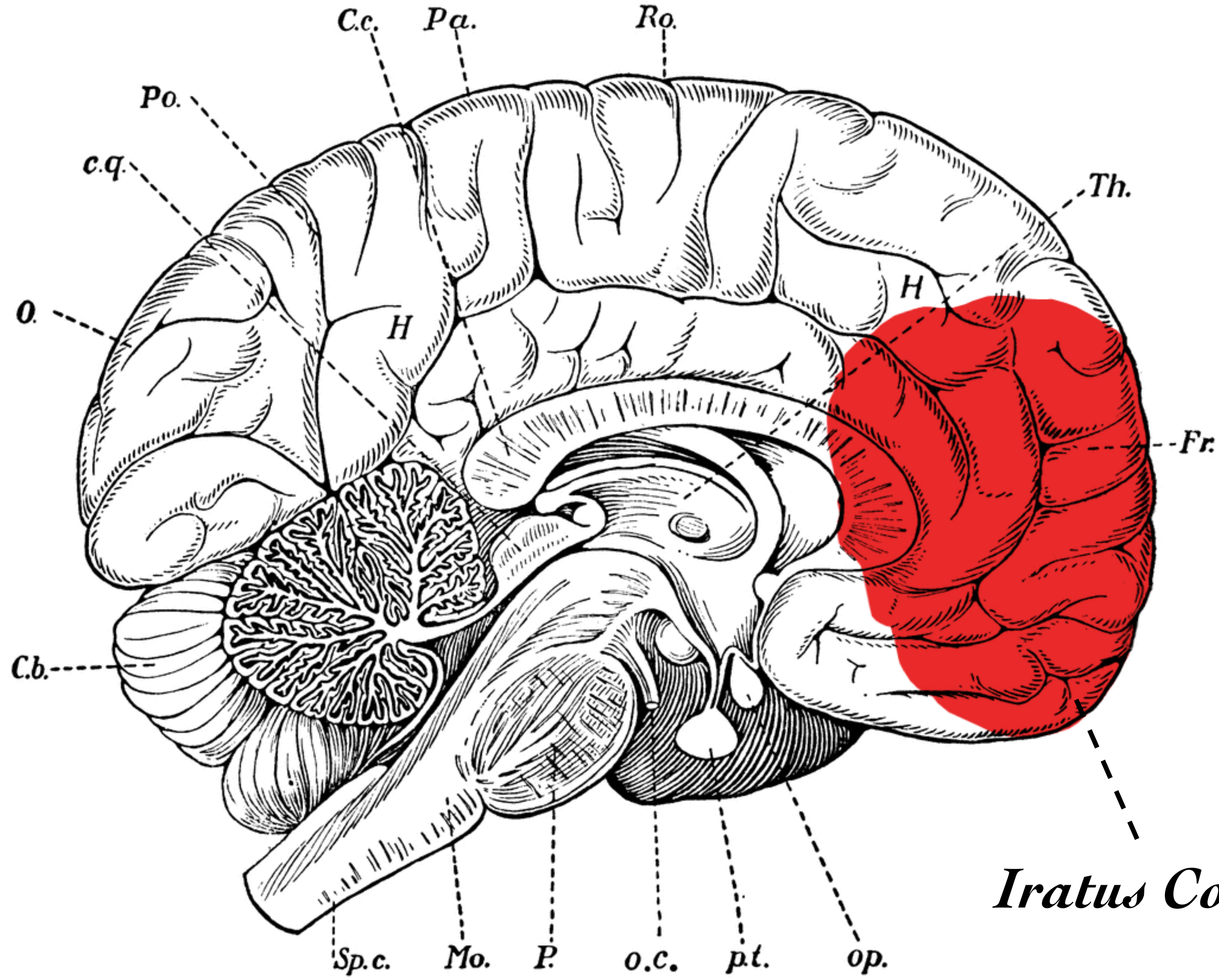
EXPERIENCE

PREPARATION

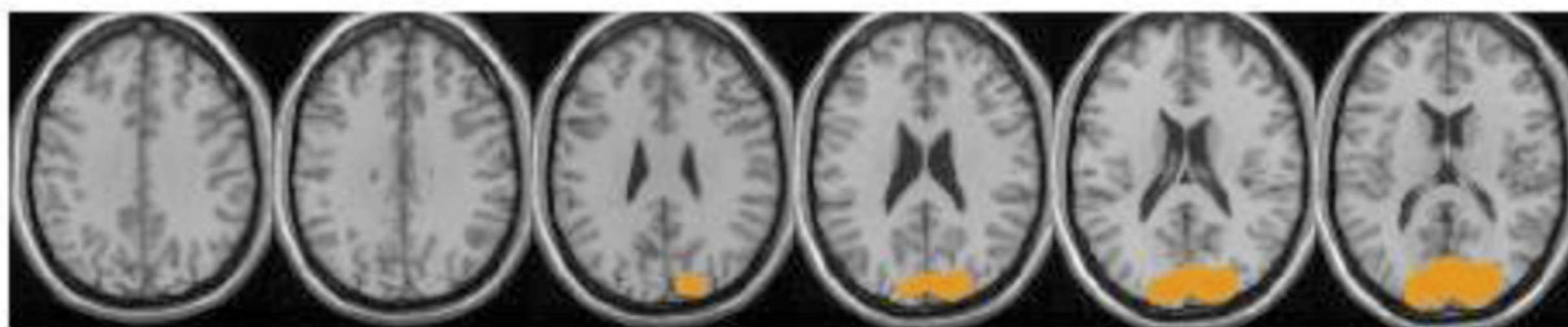
CREATIVITY

“I’m not creative”

Sure you are.



Iratus Congia



$z=36\text{mm}$

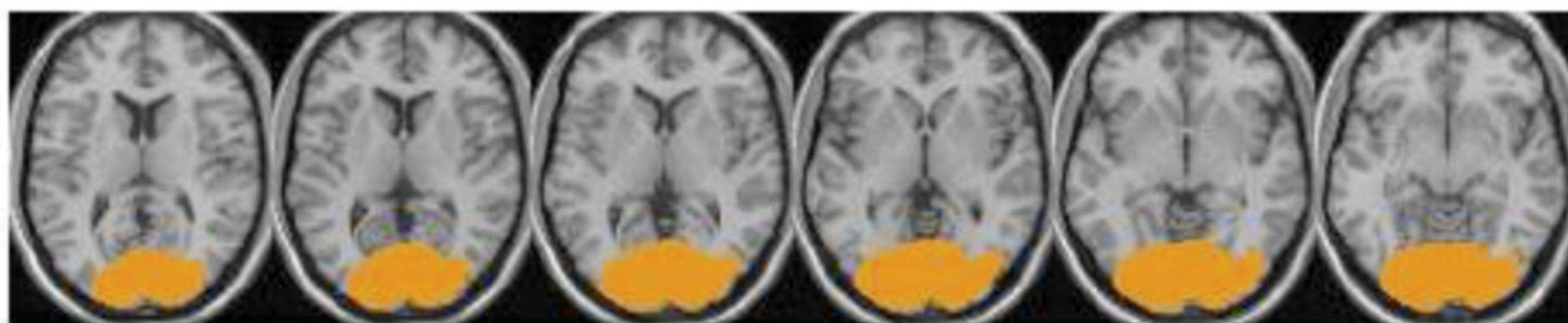
$z=32\text{mm}$

$z=28\text{mm}$

$z=24\text{mm}$

$z=20\text{mm}$

$z=16\text{mm}$



$z=12\text{mm}$

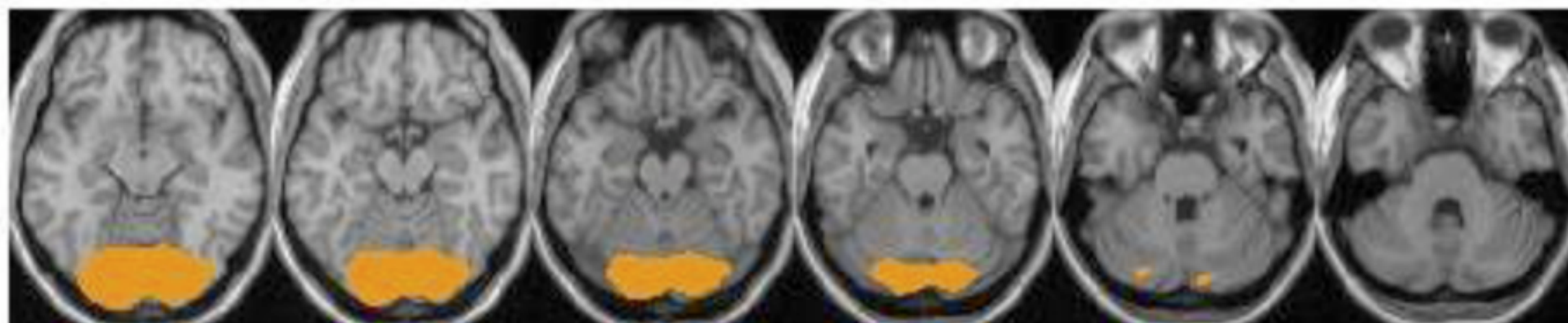
$z=8\text{mm}$

$z=4\text{mm}$

$z=0\text{mm}$

$z=-4\text{mm}$

$z=-8\text{mm}$



$z=-12\text{mm}$

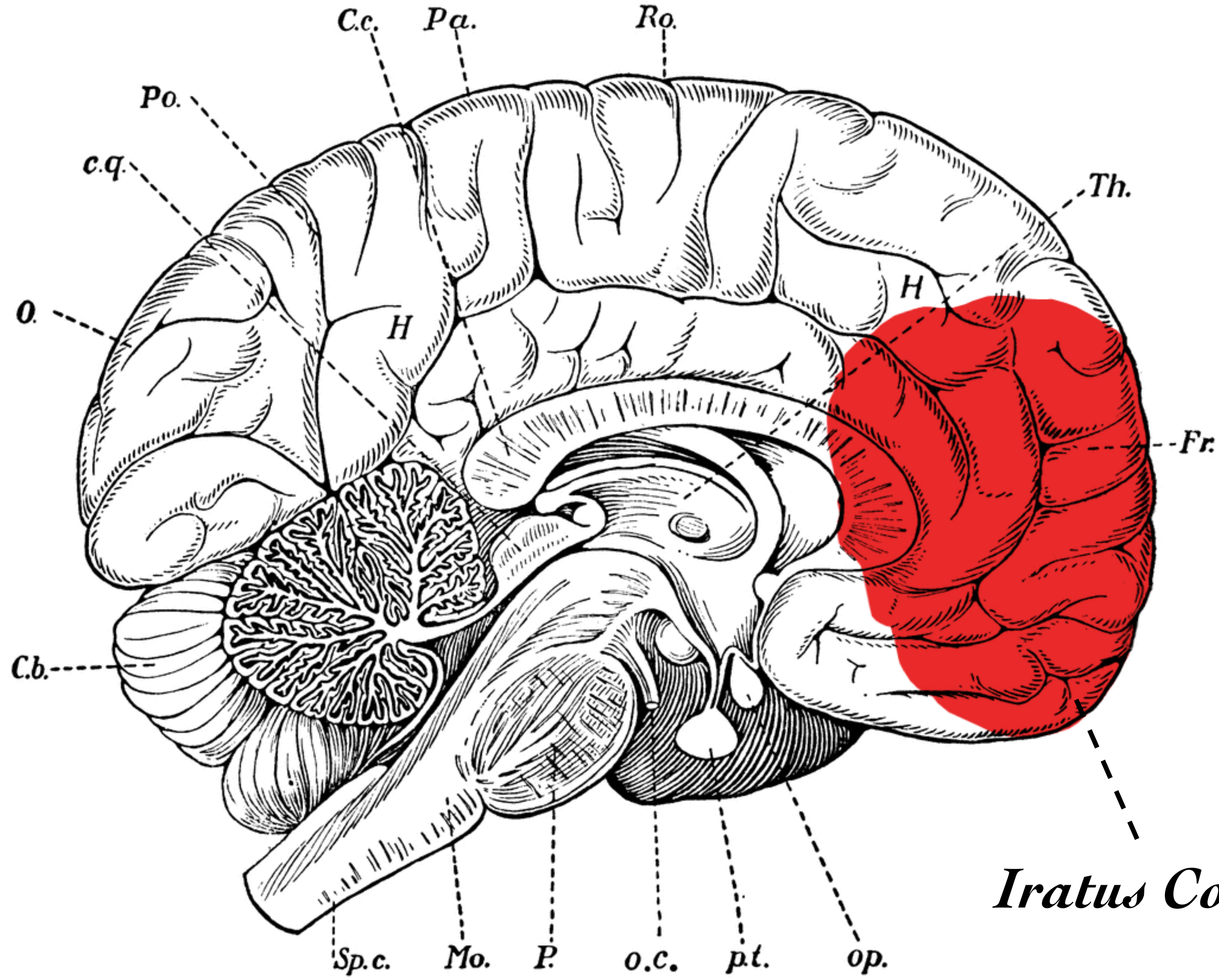
$z=-16\text{mm}$

$z=-20\text{mm}$

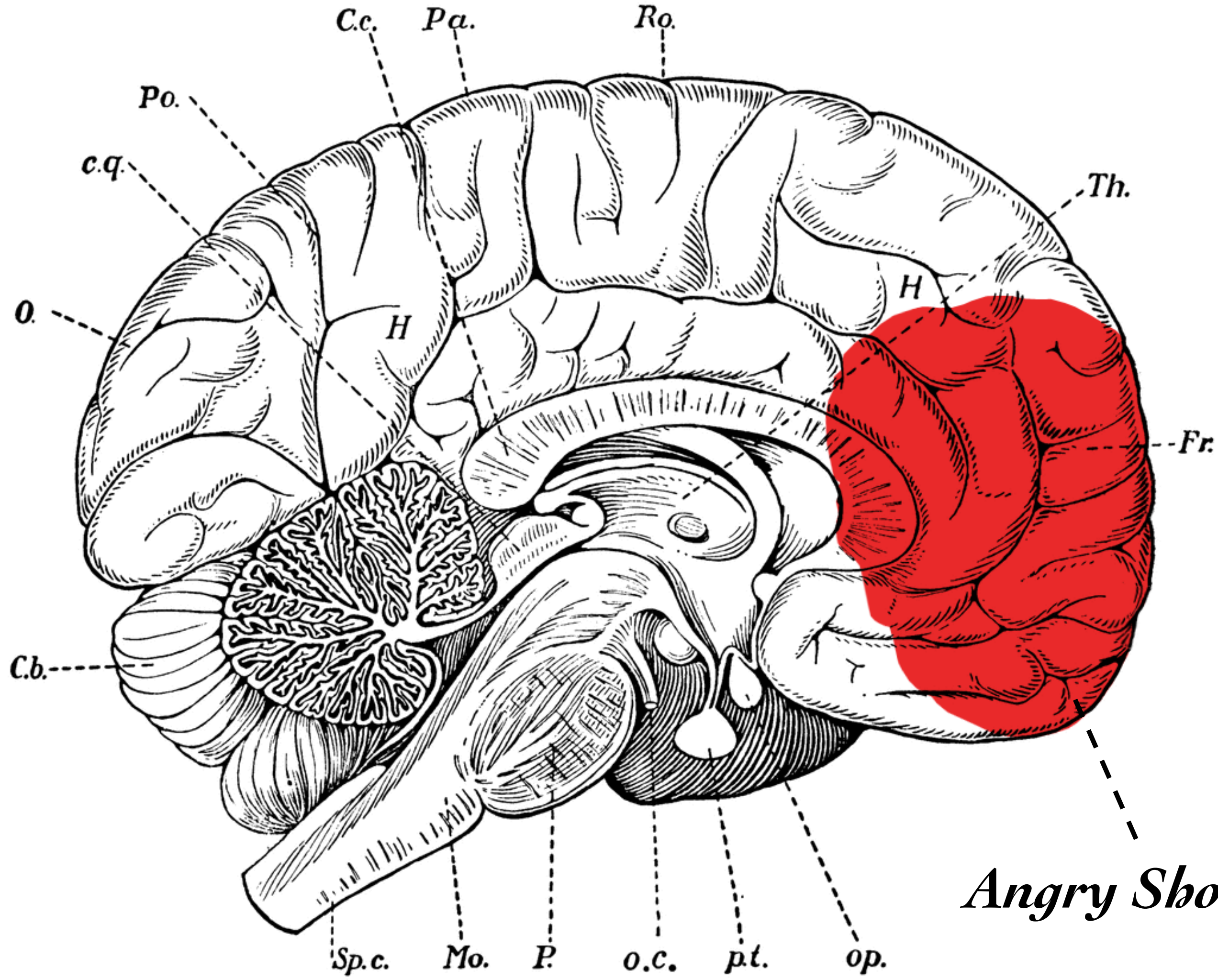
$z=-24\text{mm}$

$z=-28\text{mm}$

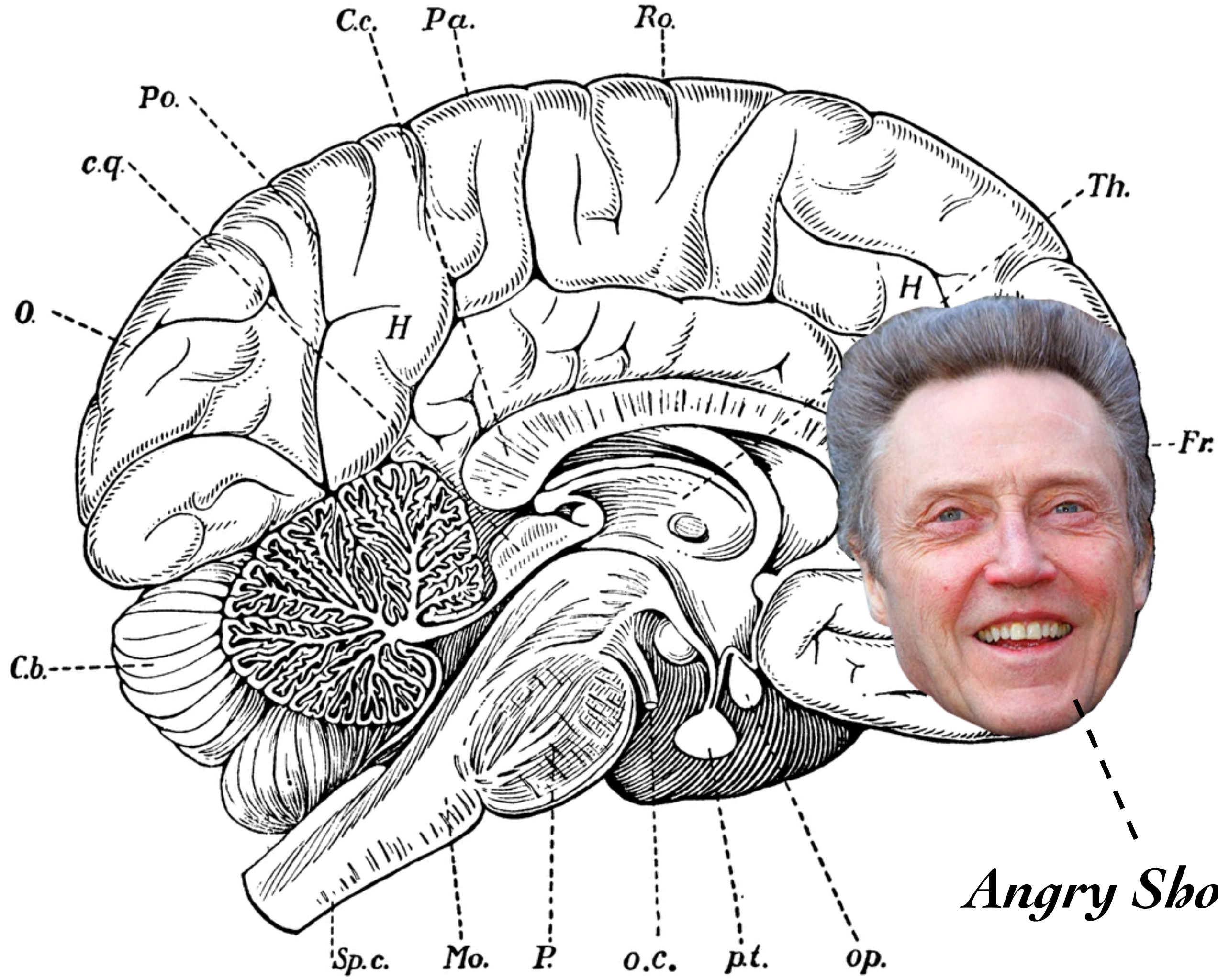
$z=-32\text{mm}$



Iratus Congia



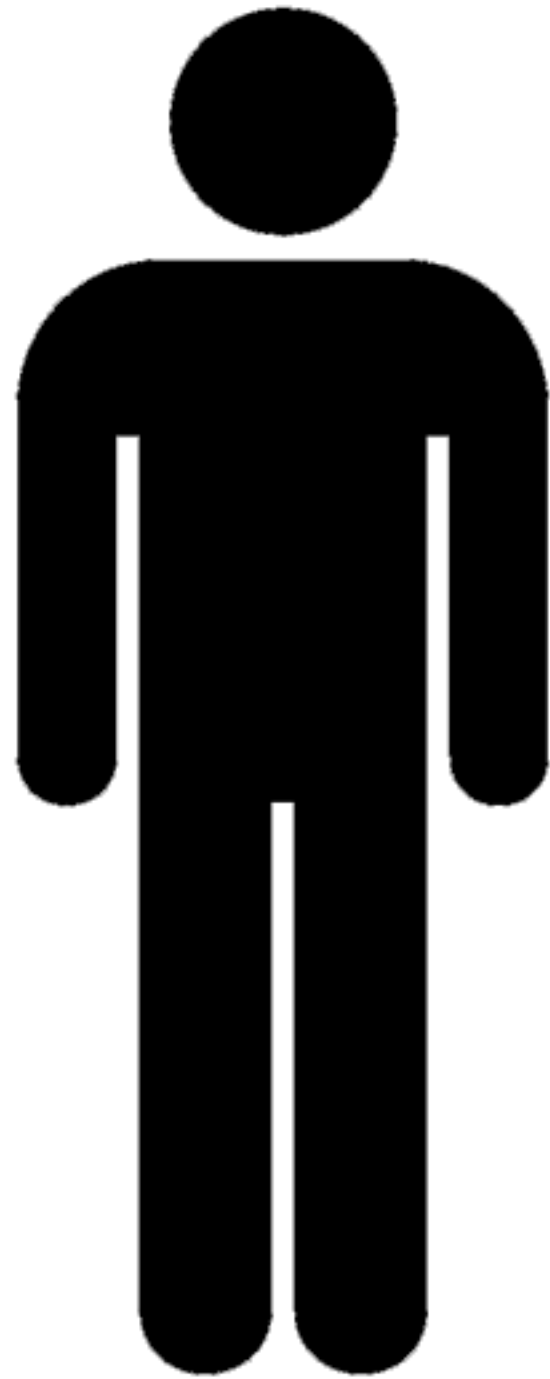
Angry Shoelaces

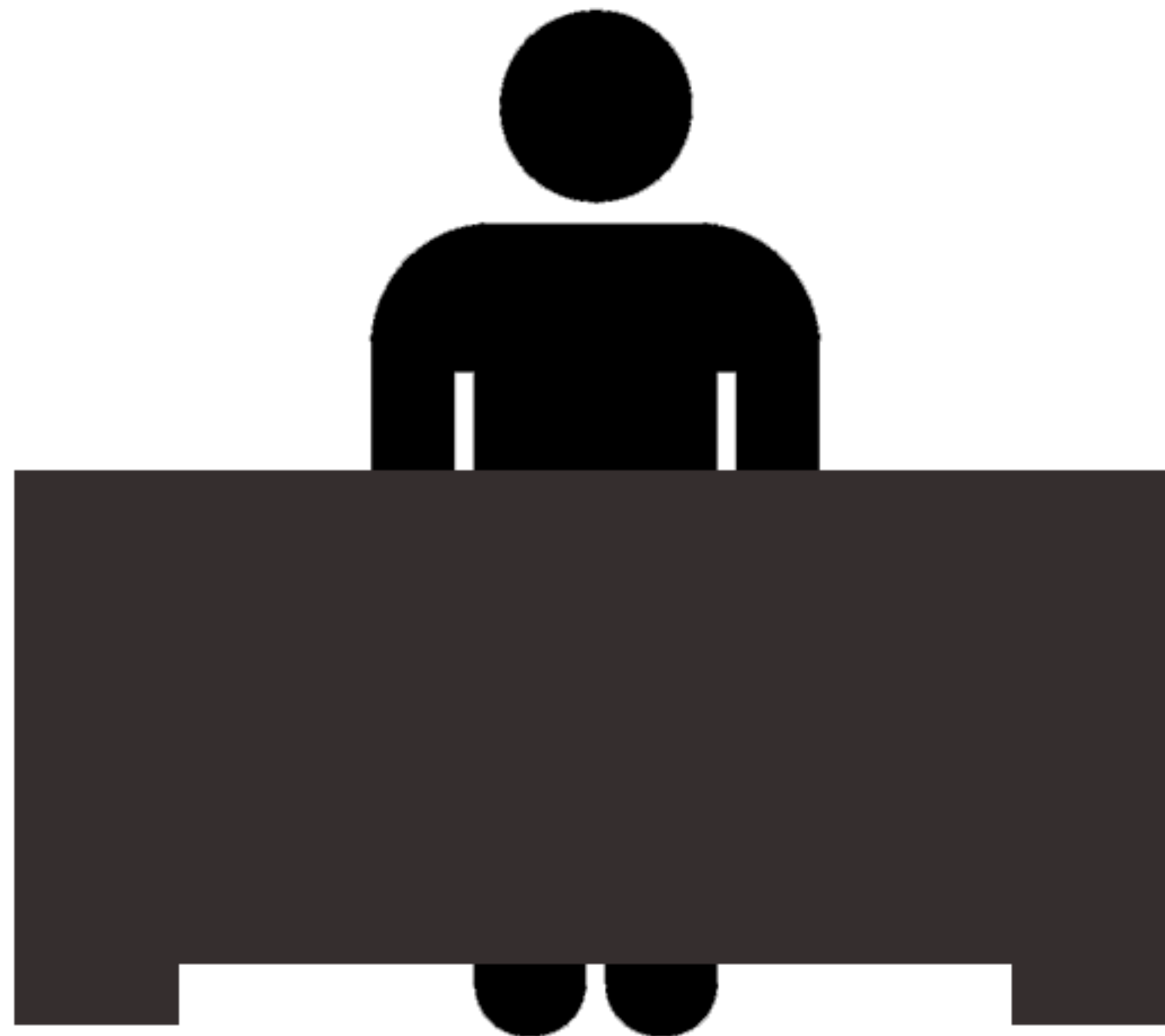


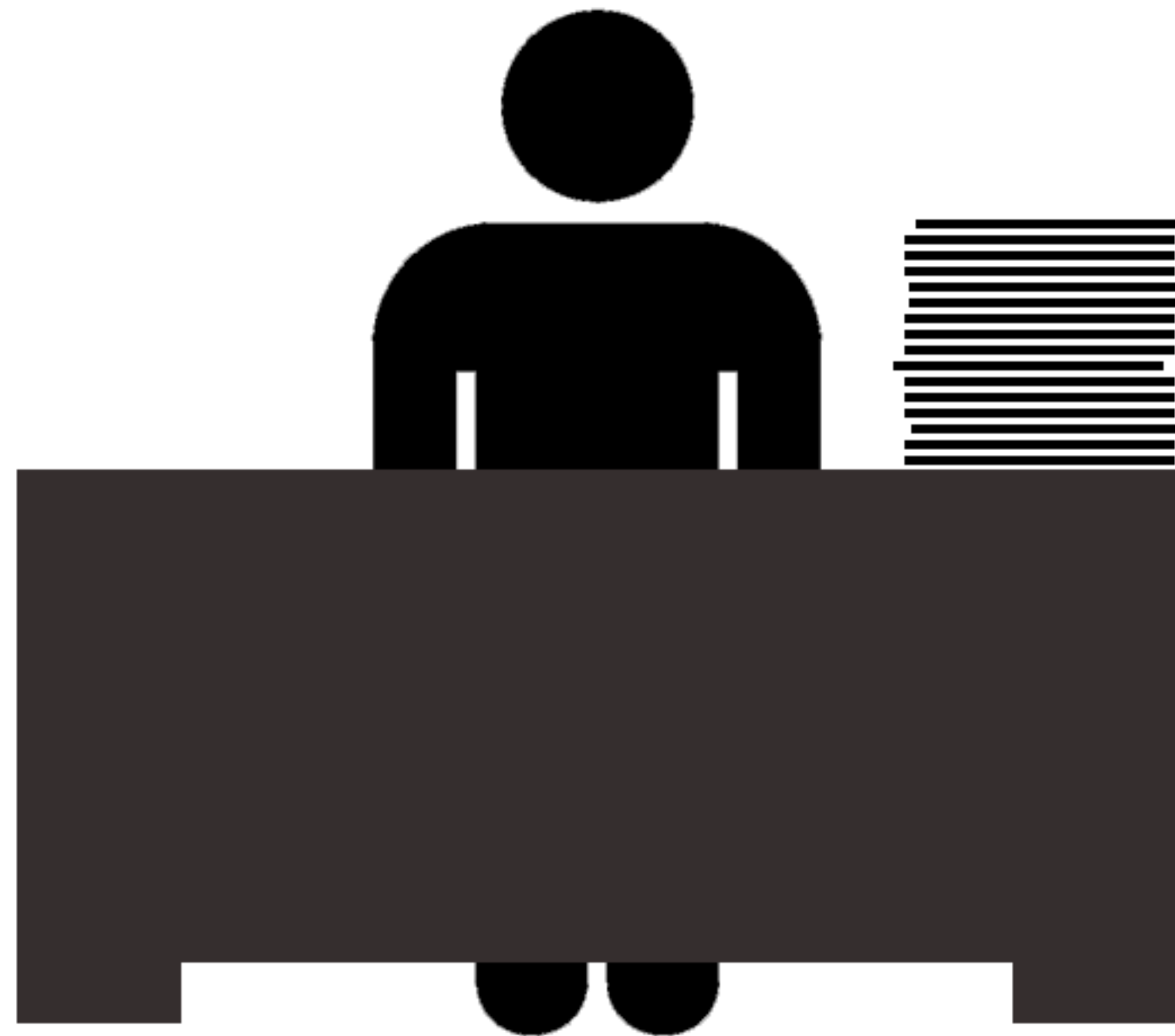
Angry Shoelaces

Who dreams?

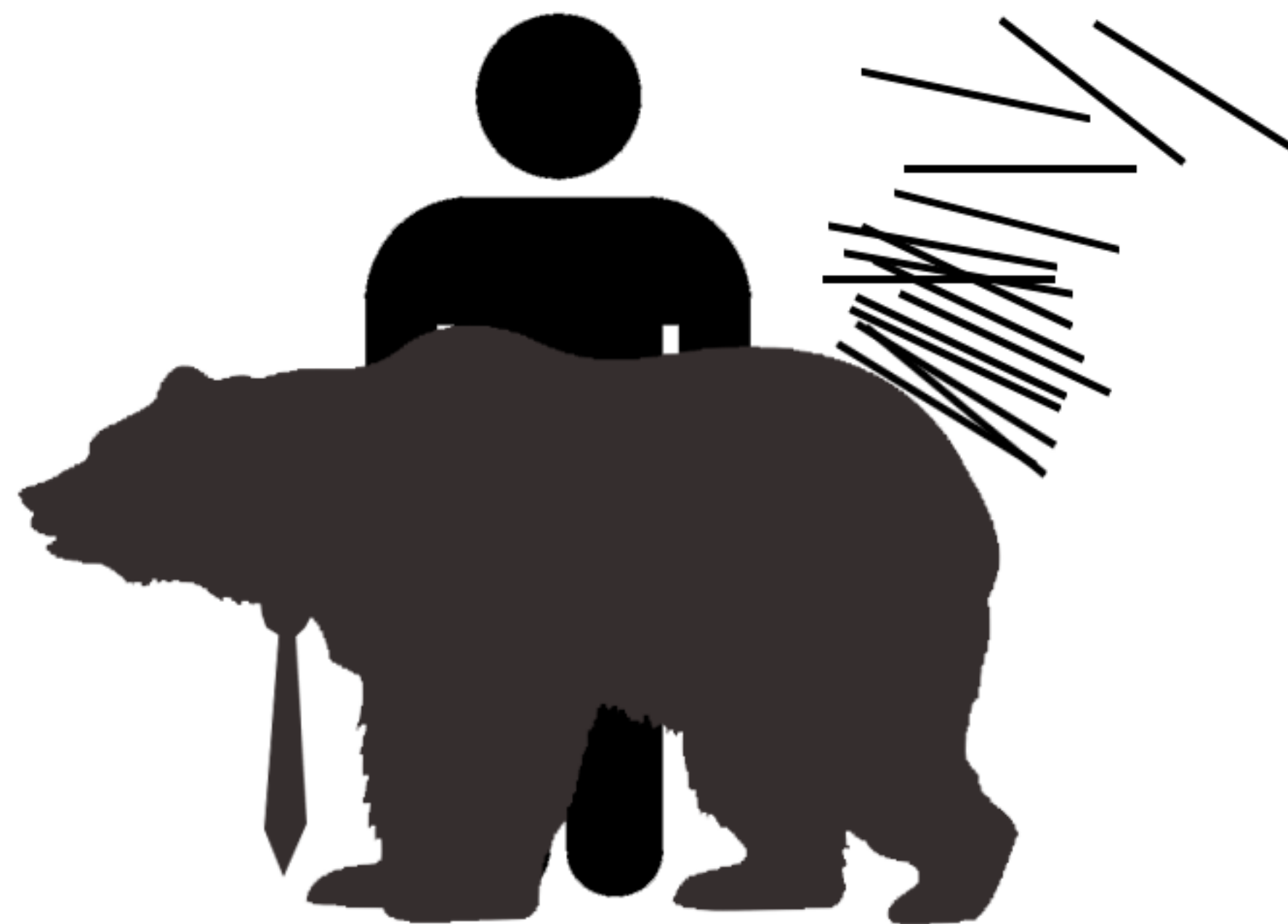


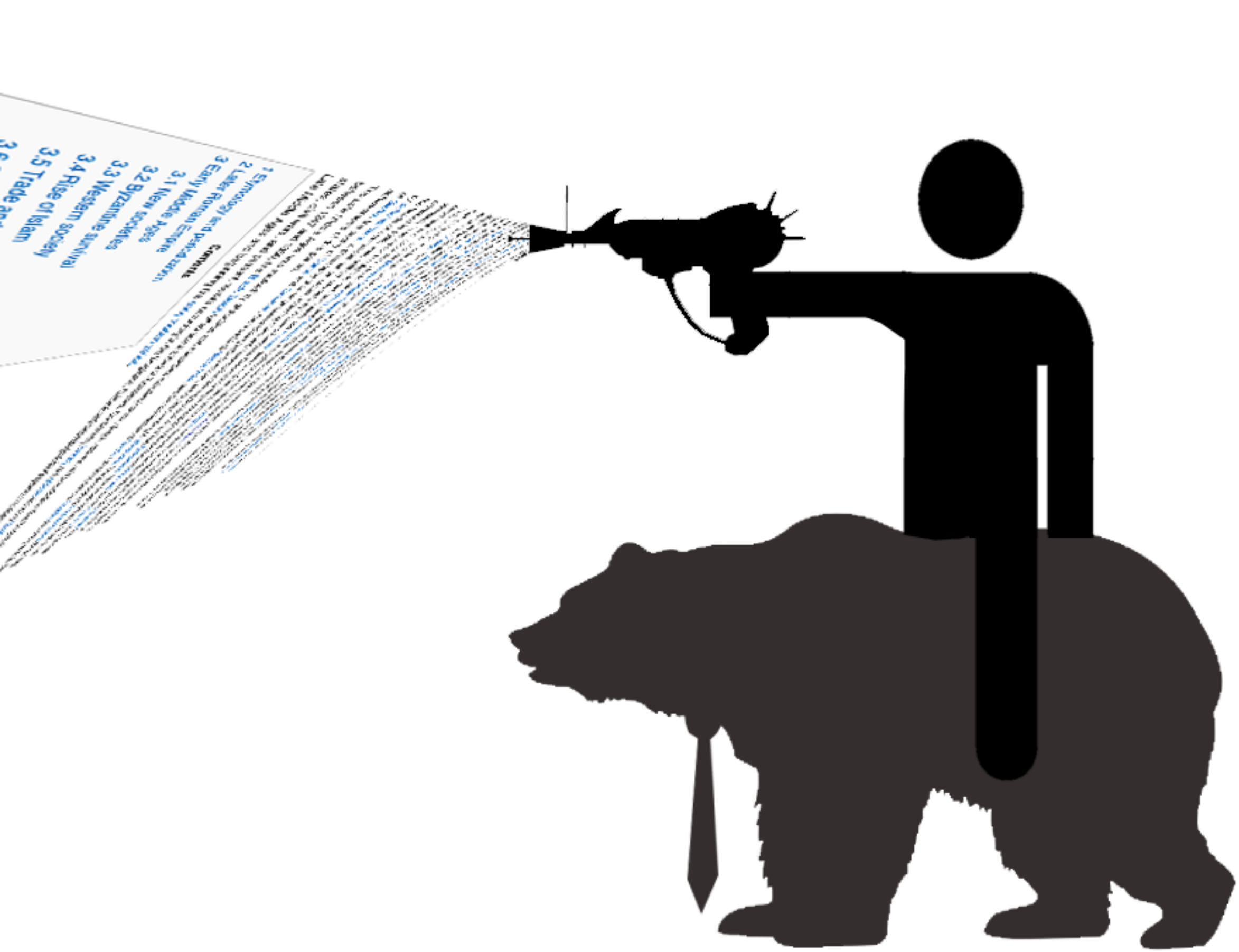


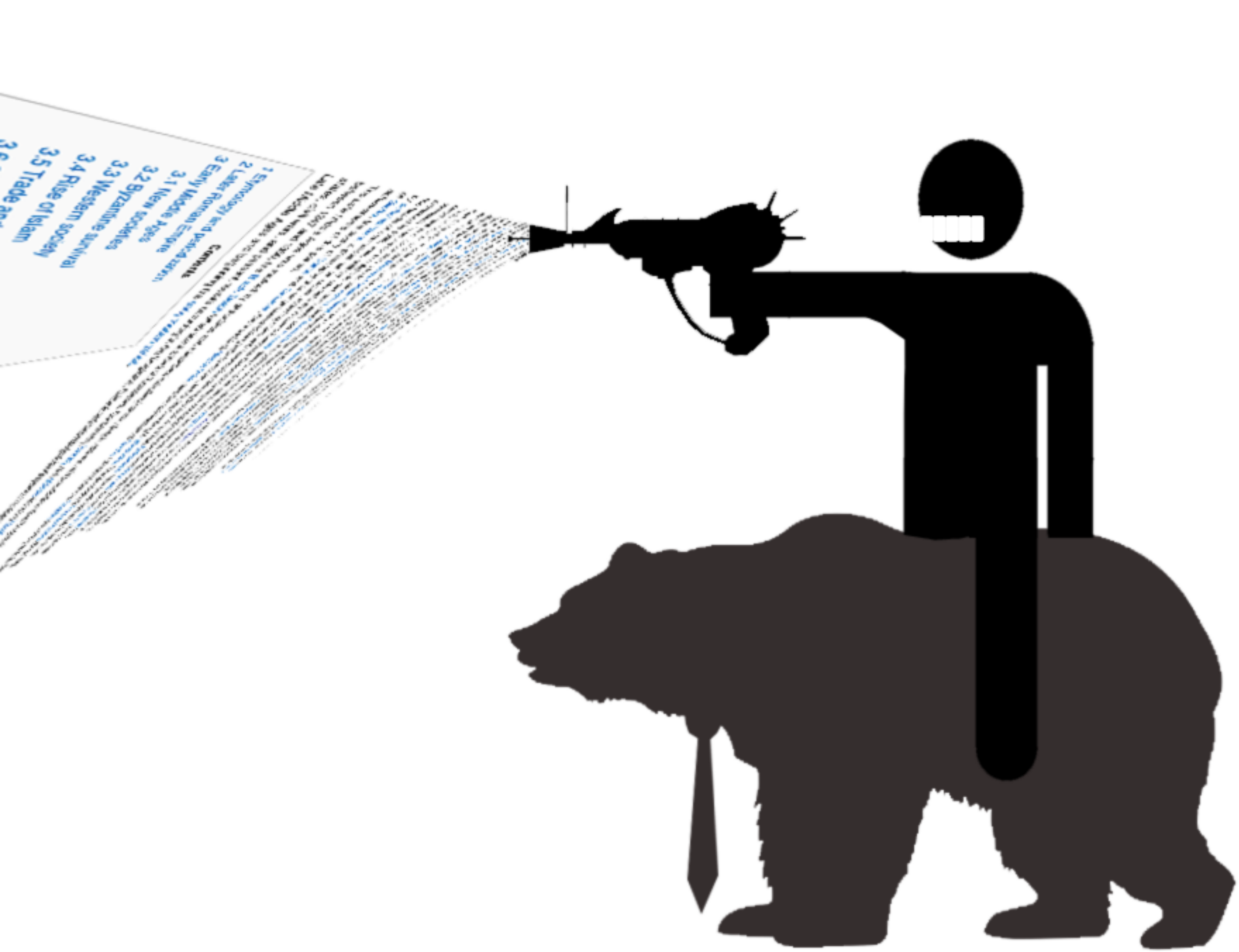














PENCIL' D



PENCIL' D



3.4 Rise of Islam
3.5 Trade and
3.6

3.4 Rise of Islam
3.5 Trade and
3.6

TONY
PRINCIPAL
DANZAAA

EVERYONE IS CREATIVE



We all have the hardware.







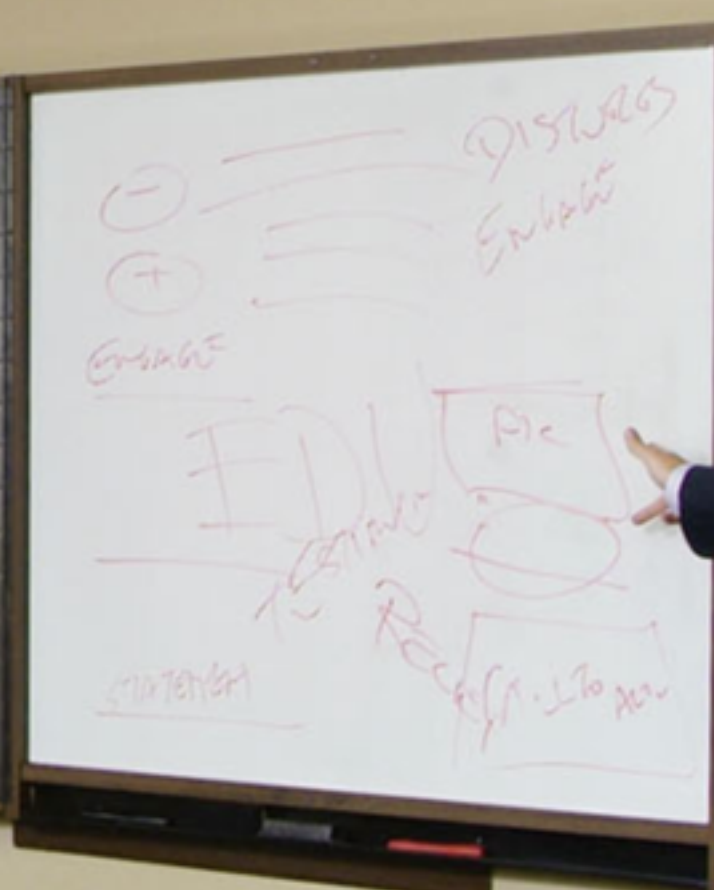






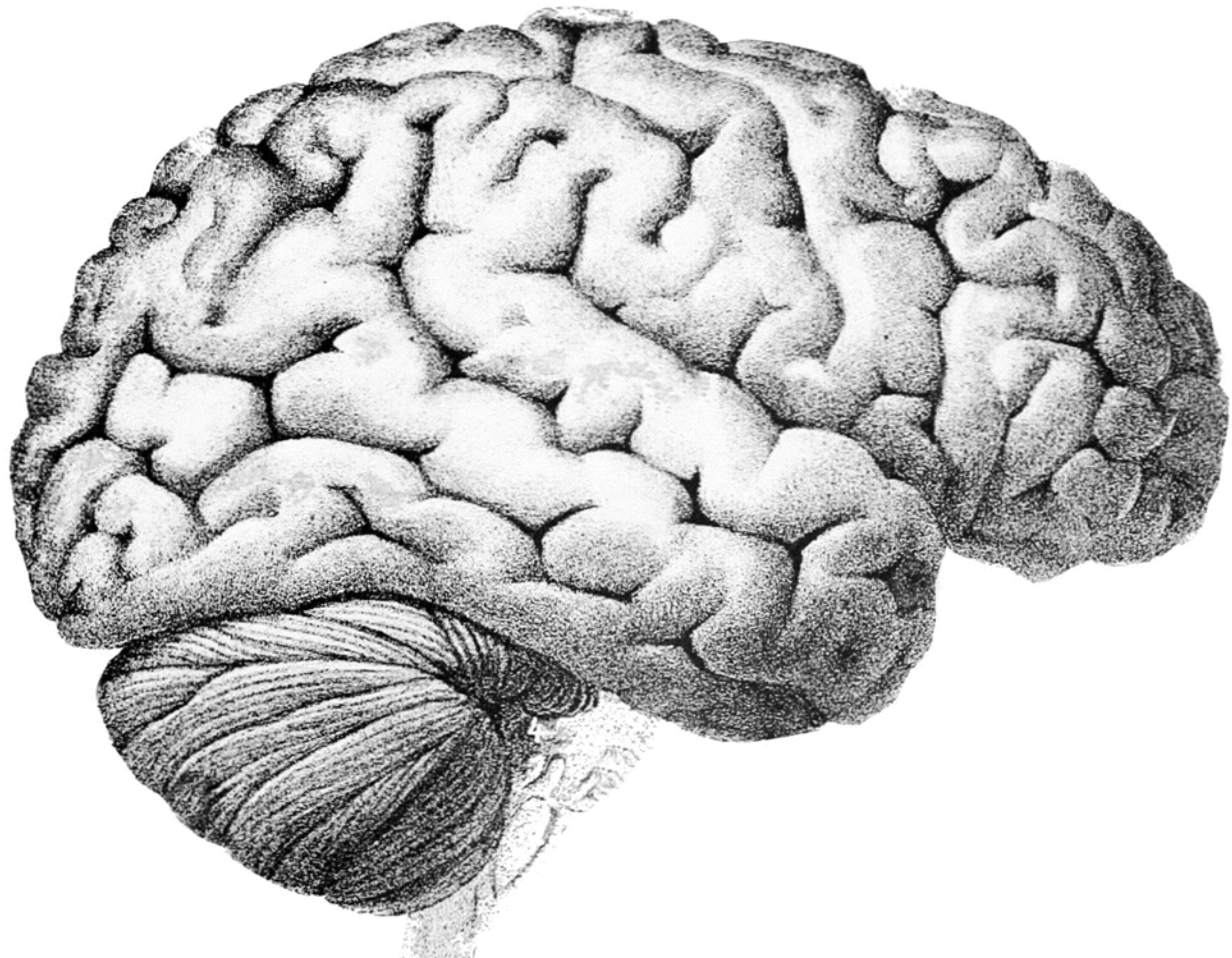






What's the problem?

YOU.





Why?

FEAR & SHAME

Pragmatism

Ideas are the raw material

NOT the finished product.



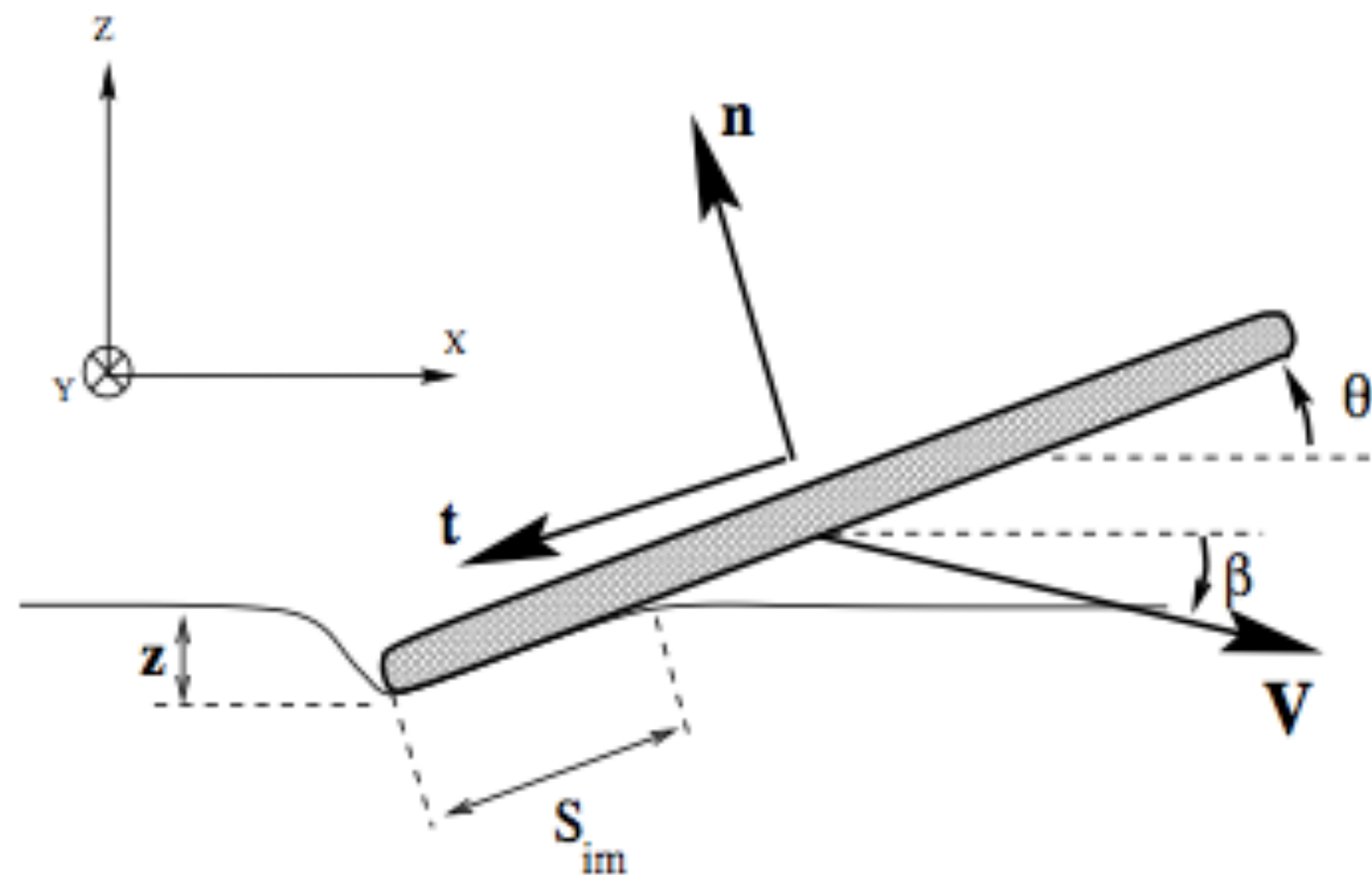
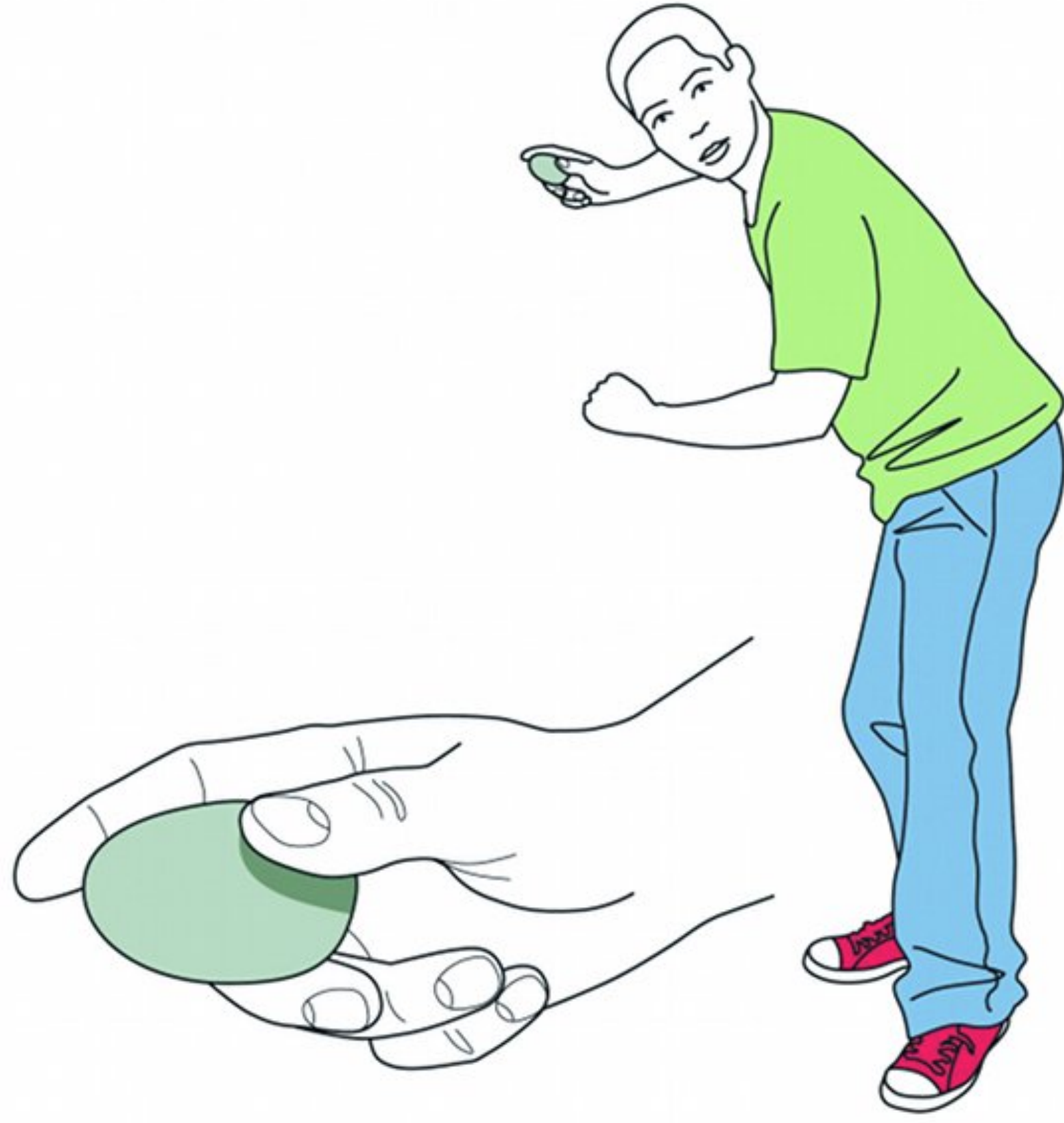


FIG. 1: Schematic view of the collisional process of a flat stone encountering a water surface. The stone has a velocity V , with an incidence angle β , while θ is the tilt angle of the stone. The immersed area S_{im} represents the area of the stone in contact with the water surface. The depth of the immersed edge is z .













Projection

Mistaking Execution for Creativity

Distrac....
HEY WANNA
RIDE BIKES??

Creativity is a “flow”

Space

Time



Necessity



KNOWLEDGE

EXPERIENCE

PREPARATION

CREATIVITY

#1

**Find What You Love
Doing, and DO IT!**



“The first time Ben Novak saw a passenger pigeon, he fell to his knees and remained in that position, speechless, for 20 minutes. He was 16. At 13, Novak vowed to devote his life to resurrecting extinct animals. At 14, he saw a photograph of a passenger pigeon in an Audubon Society book and ‘fell in love.’”

The Mammoth Cometh (The New York Times)

By: Rich, Nathaniel.

<http://www.nytimes.com/2014/03/02/magazine/the-mammoth-cometh.html>





Jason Scott: The Edge of Forever – Making Computer History

**We are designed to be
passionate about stuff**

This is NOT your job.*

***most likely**

**Find your “thing” and
do it unapologetically.**

**This is a great
place to start!**

#2

You

Knoooooow

Everything

Steve —

2/17/75

AMATEUR COMPUTER USERS GROUP

HOME BREW COMPUTER CLUB . . . you name it.

Are you building your own computer? Terminal? T V Typewriter?
I/O device? or some other digital black-magic box?

Or are you buying time on a time-sharing service?

If so, you might like to come to a gathering of people with like-minded interests. Exchange information, swap ideas, talk shop, help work on a project, whatever . . .

We are getting together Wednesday nite, March 5th, 7 pm at the home of Gordon French 614 18th Ave., Menlo Park (near Marsh Road).

If you can't make it this time, drop us a card for the next meeting.

See ya there, Fred Moore
Hope you can come.
There will be other Altair builders there.



How to search for
relevant information

Google Search

I'm Feeling Lucky

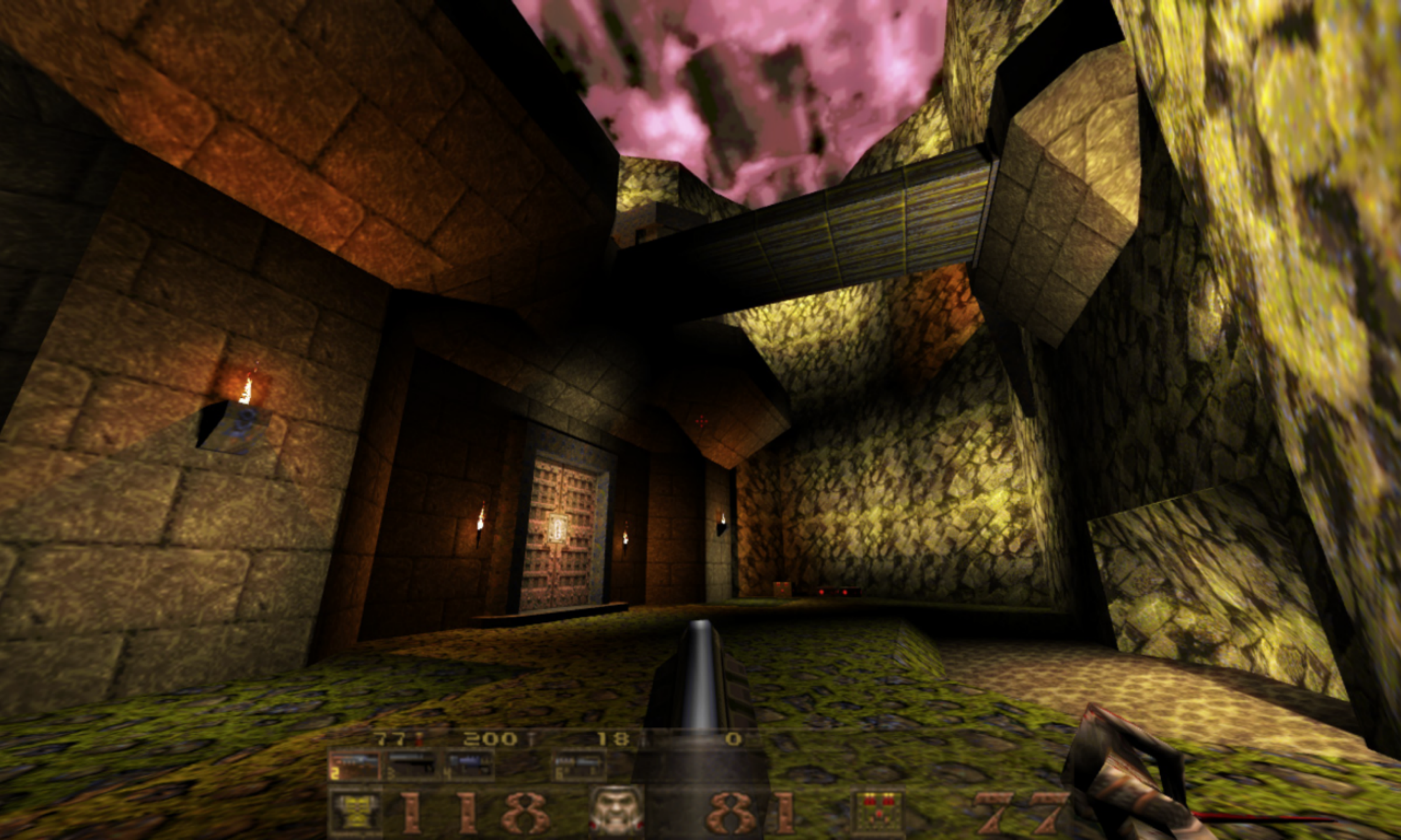


Ex: QuakeC

Google Search

I'm Feeling Lucky





77	200	18	0
118		81	

77



Mail



Read



Write

People

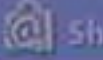


IM



Chat

Services



Shop



Internet

Settings



AOL Help

Favorites



My Favorites



Calendar



Radio



Quotes



Show Channels



BACK FORWARD STOP RELOAD

Type Keywords or Web Addresses here

Go

Search

Keyword



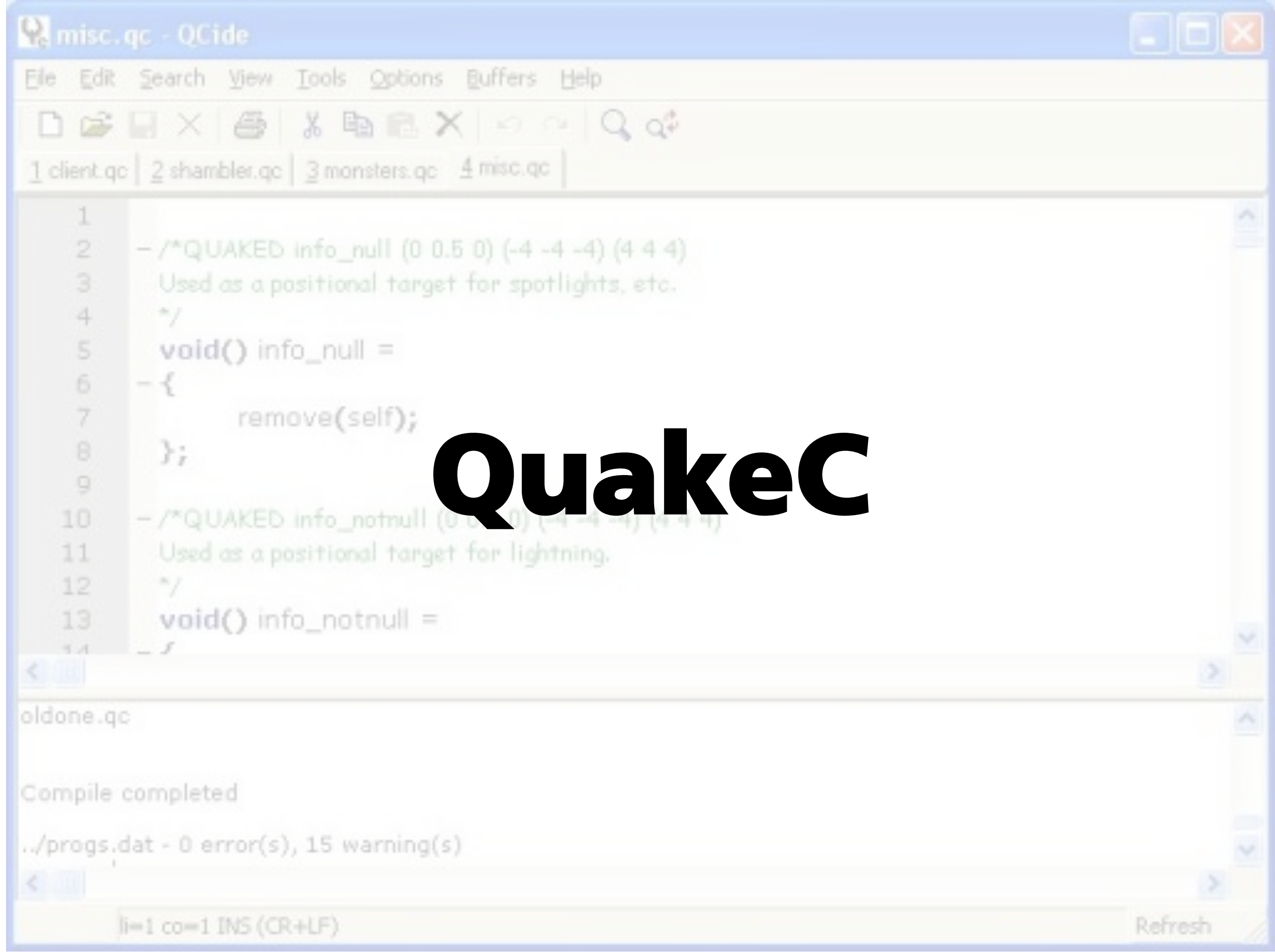
Dialing 336-782-5889...



Connecting...



Connected!



...this was 1996.

www.agoogleaday.com

#3

Start small

#4

Fail

Fail

Fail Gloriously

When was the last
time you let yourself
completely fail?





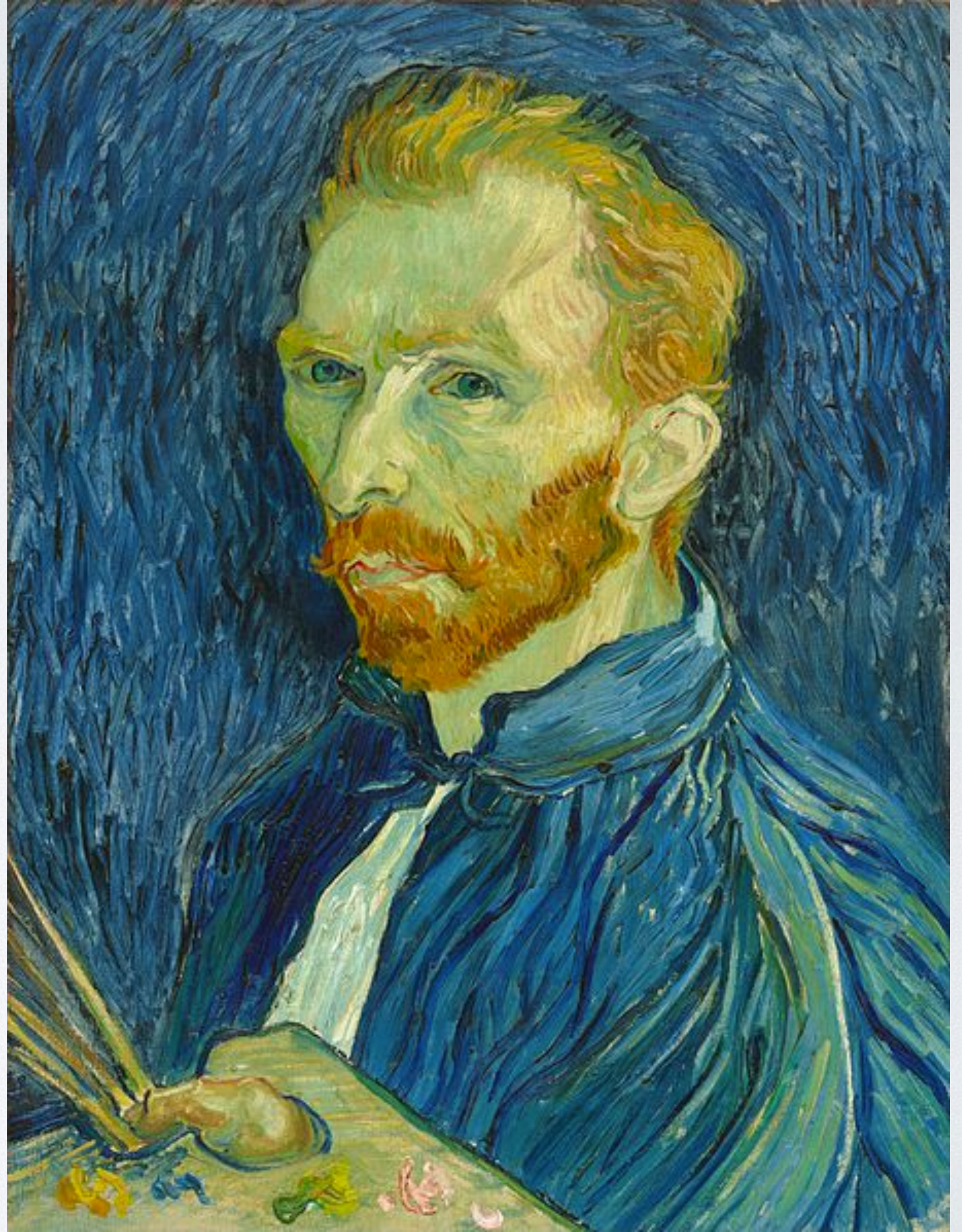
Be a Secret Agent





HATERS GONNA HATE

Vincent van Gogh





**Unless you're REALLY
into writing history
books, leave that crap for
someone else.**

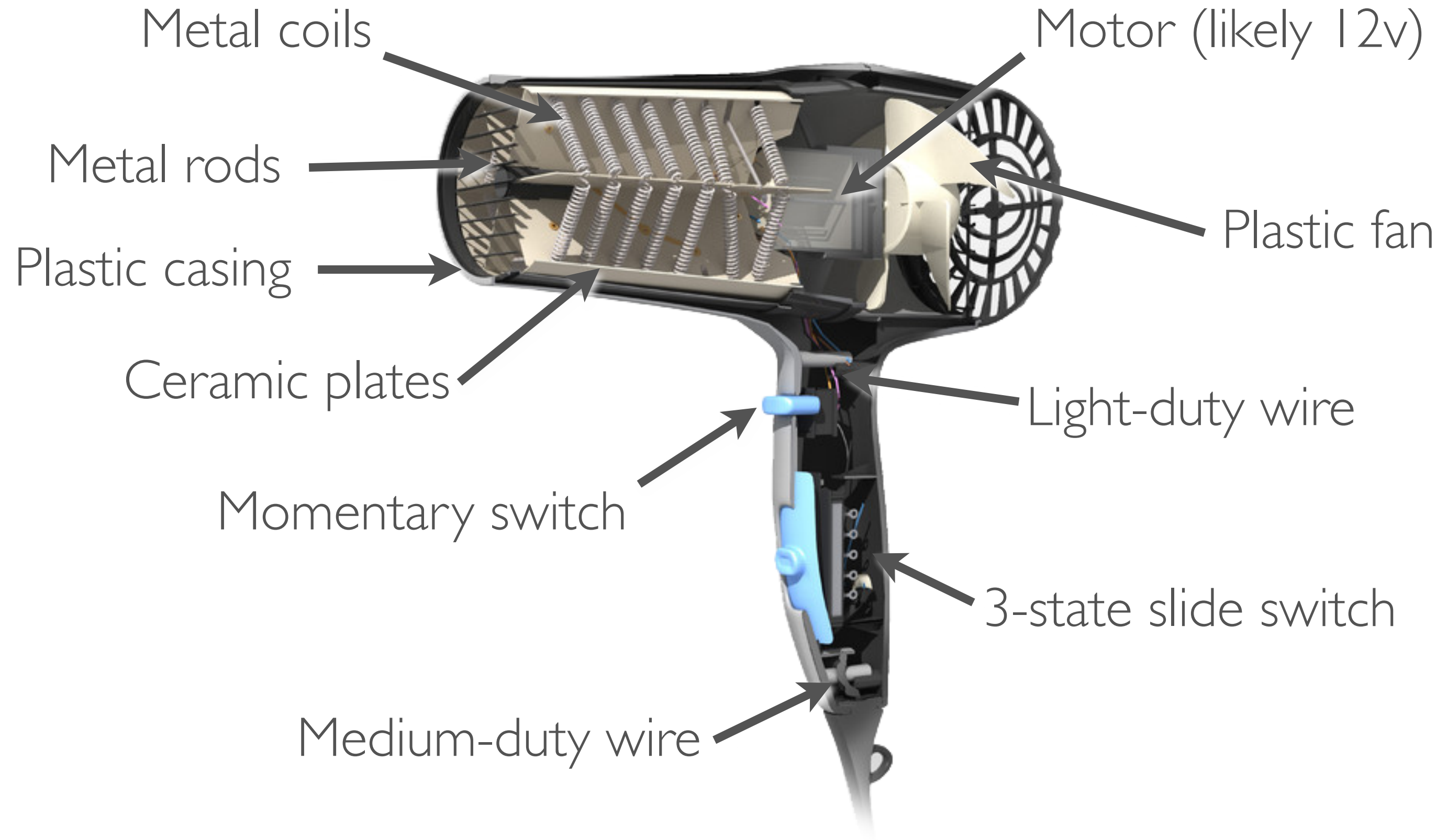


MACGYVER

Look at this...



...and see this

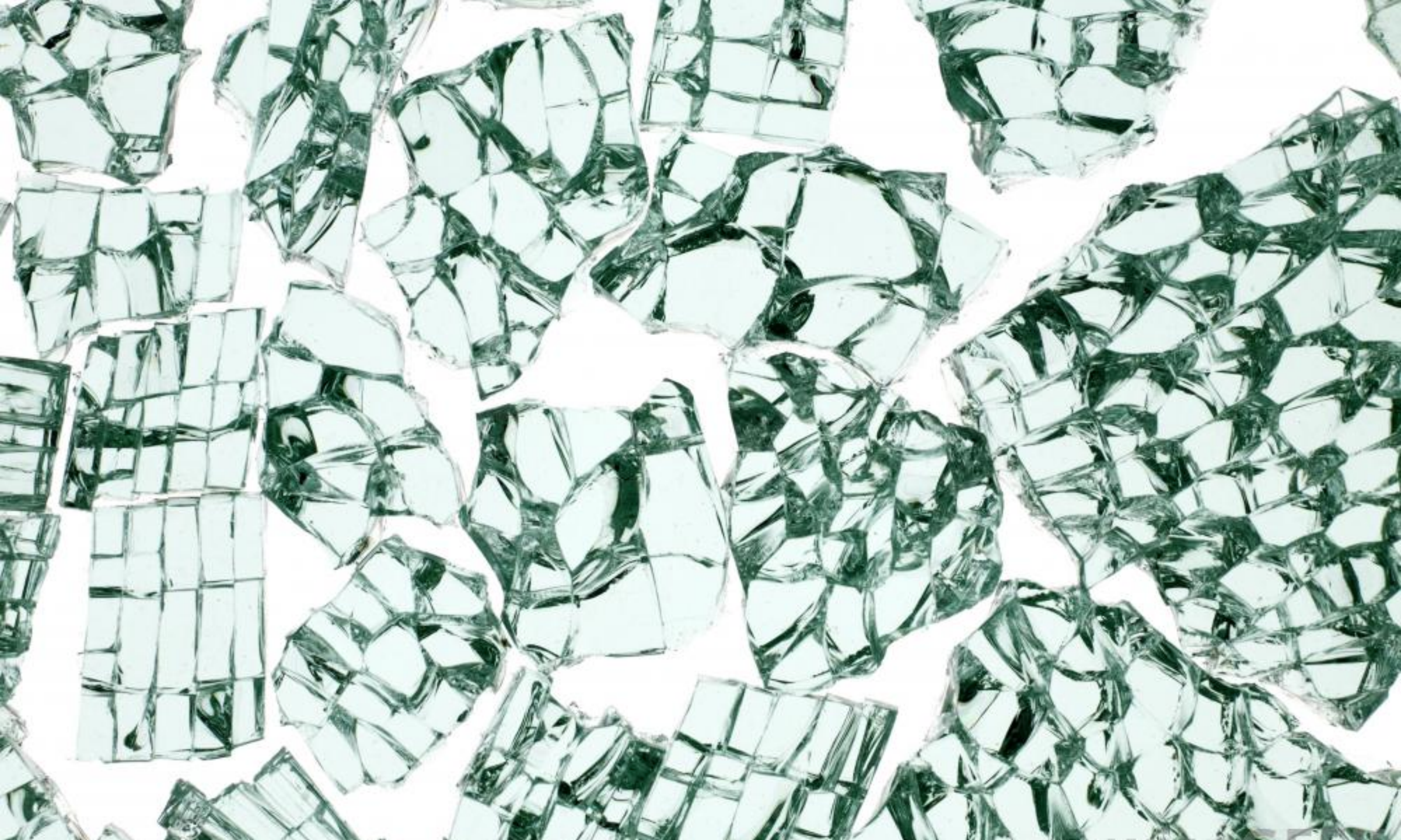






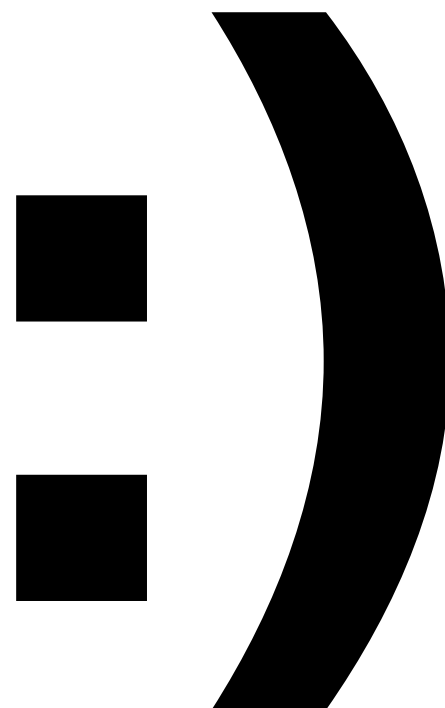












Questions?



evanbooth@gmail.com



@evanbooth

