

GET EXCITED &
MAKE
THINGS
WITH
SCIENCE



#GETEXCITED



I'M

@ADACTIO

a f***ing space elevator



Celik

Sanford Waldman

Open Science: Create, Collaborate, Communicate
#opensci

Cowan-S





EXIT

business &
professional



I'M

@MATT_BELLIS



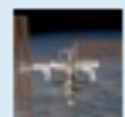
SCIENCE

I'M

@ARIELWALDMAN





**abovelondon** (Heavens Above London)

Following:3 Followers:502

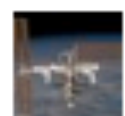


Follow



Block

Tweets Favs Msgs About



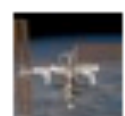
abovelondon The time has come to shut up shop. Try [@overlondon](#) or [@twisst](#) for ISS alerts. Thank for following. More details at <http://j.mp/aboveretire>

over 1 year ago



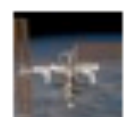
abovelondon ISS Pass: mag -3.5 starts at 21:59:13 from W to W with max elevation 74deg at 22:01:58 in direction W

over 1 year ago



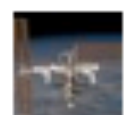
abovelondon Iridium Flare: mag -3 at 21:16:46 with max elevation 22deg in direction 355deg (N) (from Iridium 4)

over 1 year ago



abovelondon ISS Pass: mag -3.6 starts at 20:23:50 from WSW to E with max elevation 75deg at 20:26:49 in direction SSE

over 1 year ago



abovelondon ISS Pass: mag -3.6 starts at 21:31:55 from W to E with max elevation 85deg at 21:34:52 in direction NW

over 1 year ago

**lowflyingrocks** (lowflyingrocks)

Following:3 Followers:4,682



Follow



Block

Tweets Favs Msgs About**lowflyingrocks** 2008 CE119, ~21m-47m in diameter, just passed the Earth at 6km/s, missing by ~seven million, two hundred and ninety thousand km.

about 20 hours ago

**lowflyingrocks** 2002 QC7, ~280m-620m in diameter, just passed the Earth at 15km/s, missing by ~ten million, seven hundred thousand km.

1 day ago

**lowflyingrocks** 2003 QB30, ~14m-31m in diameter, just passed the Earth at 18km/s, missing by ~twenty-eight million, four hundred thousand km.

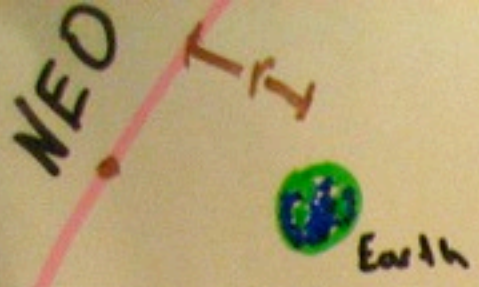
1 day ago

**lowflyingrocks** 2008 BX2, ~48m-110m in diameter, just passed the Earth at 8km/s, missing by ~twenty-three million, three hundred thousand km.

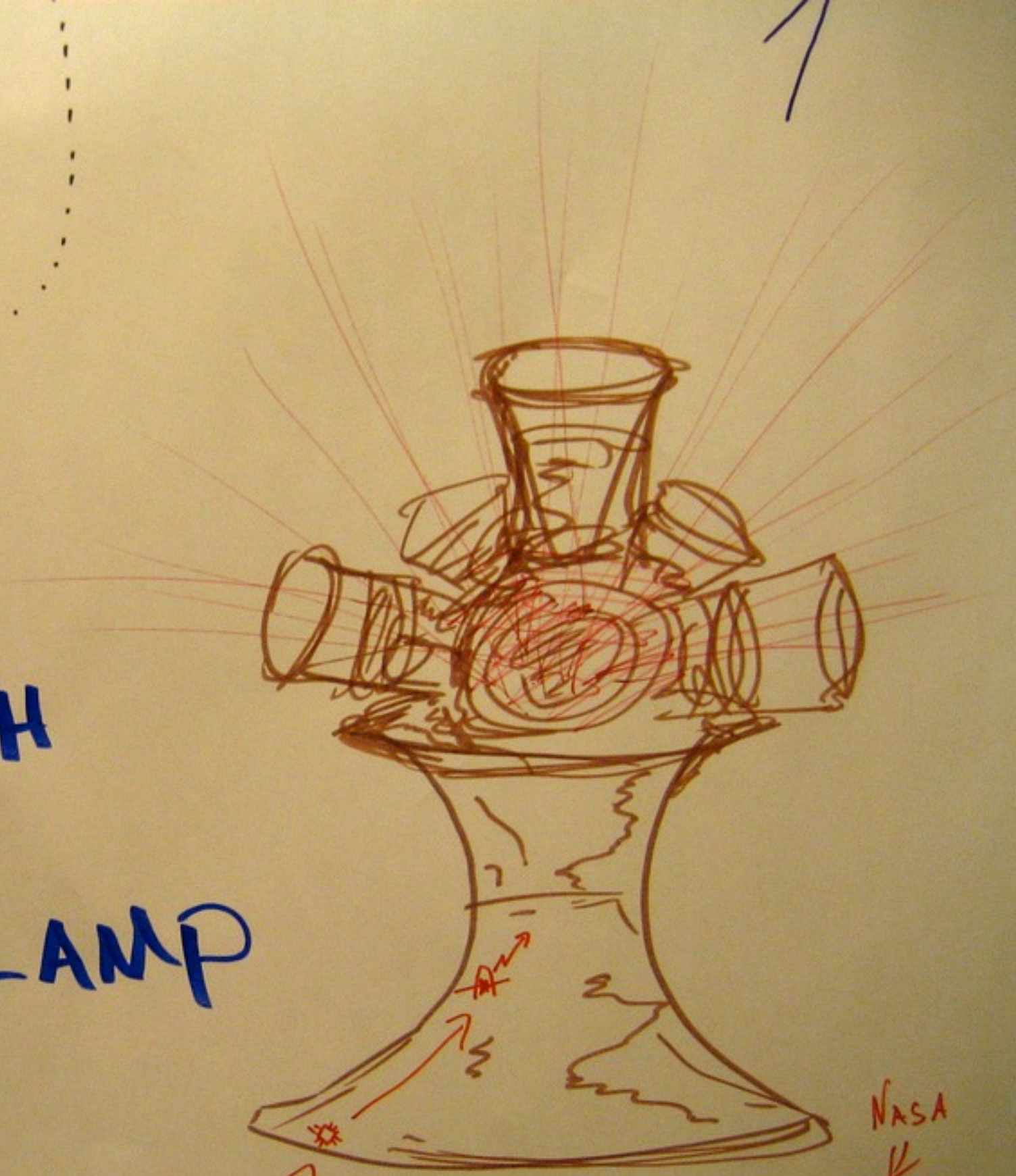
3 days ago

**lowflyingrocks** 2010 RF12, ~5m-12m in diameter, just passed the Earth at 8km/s, missing by ~fourteen million, three hundred thousand km.

3 days ago



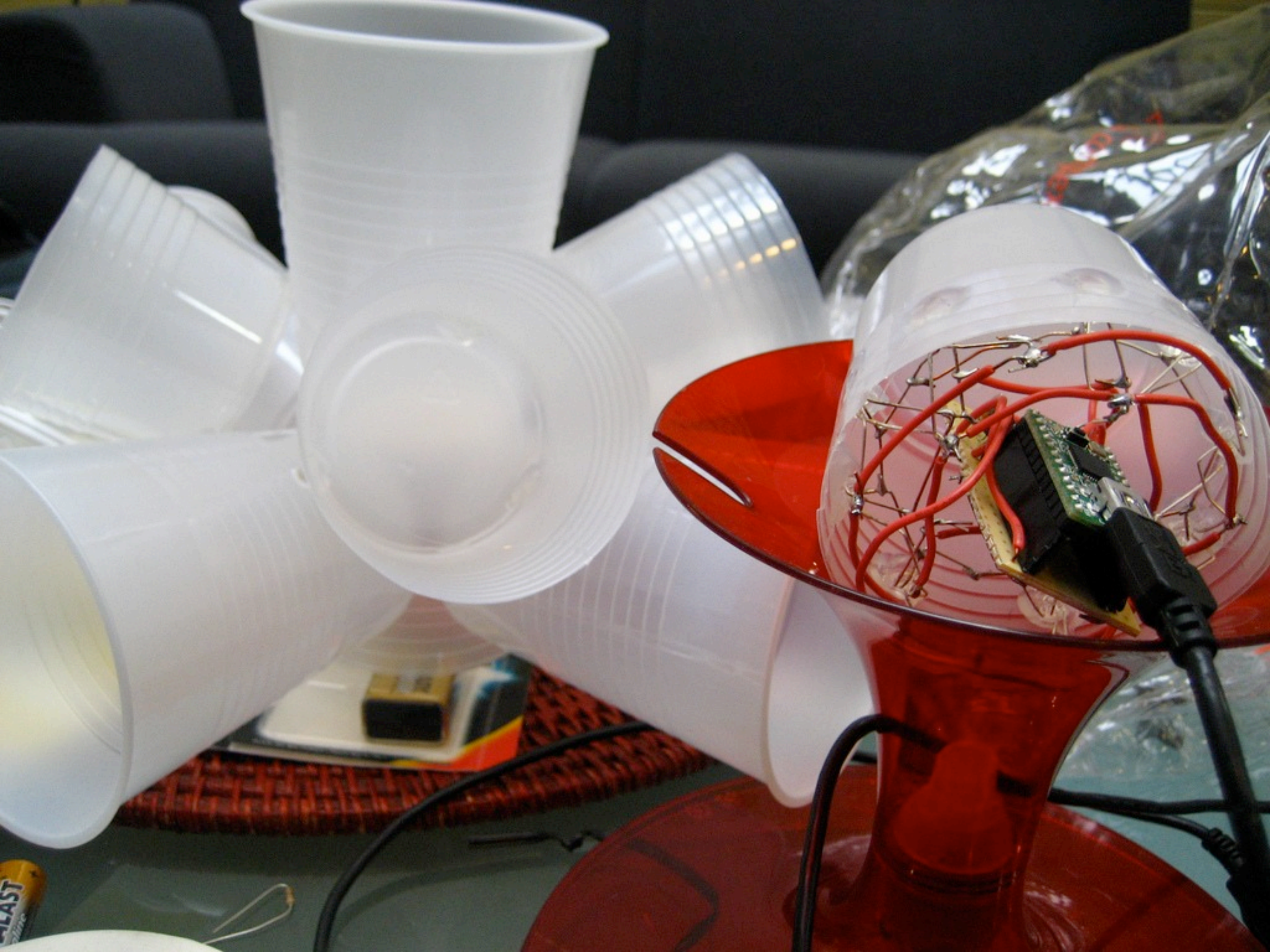
NEAR EARTH OBJECT LAMP

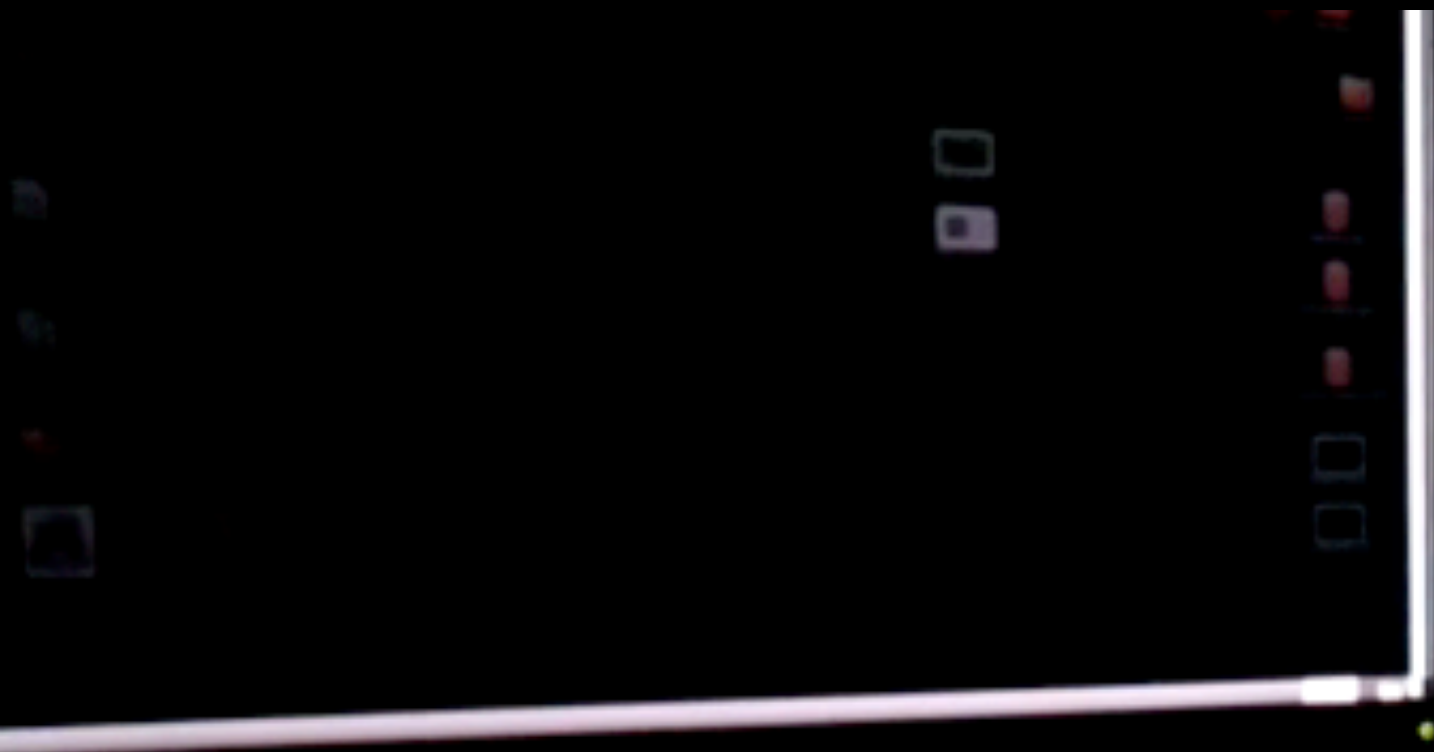


NASA
↓



@lowflyingrocks









Falcon 9	120	\$881,832,000,000	Falcon 9
Proton	20	\$3,322,979,000,000	Proton
Ariane	1	...	Ariane 5
Atlas			Atlas V
Falcon 9	151		Delta IV
Proton	462		Space Shuttle
Ariane 5	307		Space Elevator
Atlas V	226		
	227		
		\$102,821,250,000	
		\$100,000,000,000	

X-Wing
20,250KG

Spacelift







Choose your payload...

- Voyager 1
- TIE Fighter
- X-Wing
- B-Wing
- Imperial Shuttle
- Millennium Falcon
- Tantive IV
- USS Enterprise
- Battlestar Galactica
- Star Destroyer

X-Wing

20,250KG



Falcon 9	2		\$98,658,000
Proton	4		\$371,769,750
Ariane 5	3		\$405,000,000
Atlas V	2		\$661,486,500
Delta IV	2		\$708,750,000
Space Shuttle	6		\$1,030,198,500

Spacelift

Choose your payload...

- Voyager 1
- TIE Fighter
- X-Wing
- B-Wing
- Imperial Shuttle
- Millennium Falcon
- Tantive IV
- USS Enterprise
- Battlestar Galactica
- Star Destroyer

Tantive IV

48,564,000KG



Falcon 9	2,491		\$236,603,808,000
Proton	7,636		\$891,586,476,000
Ariane 5	5,059		\$971,280,000,000
Atlas V	3,736		\$1,586,391,624,000

Spacelift

Choose your payload...

Voyager 1

TIE Fighter

X-Wing

B-Wing

Imperial Shuttle

Millennium Falcon

Tantive IV

USS Enterprise

Battlestar Galactica

Star Destroyer

X-Wing
1 Space
Elevator

20,250KG

\$4,455,000



That's a tower of pennies 6,905KM high.
That's 2 times larger than a space elevator.

Read the stories of early space exploration from the original transcripts. Now open to the public in a searchable, linkable format.

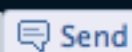


Tweet



Like

2k



Send

“Must-visit for space enthusiasts” — Kim Komando Cool Site of the Day

Featured Missions



Mercury 3 (1961)

The 1961 Mercury mission that made pilot Alan Shepard the first American in space, one of two manned suborbital missions at the start of NASA's programme of manned spaceflight.



Mercury 4 (1961)

NASA's second suborbital mission was a success until after splashdown, when the hatch blew unexpectedly, forcing pilot Gus Grissom to egress into the water as the capsule began to sink.





Mercury 6 (1962)

The 1962 Mercury mission that made pilot John Glenn the first American to reach Earth orbit, with three orbits before re-entry.

APOLLO 11

“I'm right in the middle of my orange juice. Be with you in about 5 minutes.”

 Read this moment

 See another

JUMP
INTO
THE
STORY



PHASE 1: LAUNCH



PHASE 2: EARTH ORBIT



PHASE 3: TO THE MOON



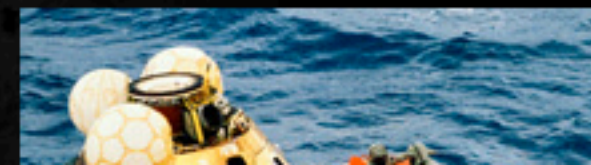
PHASE 4: LUNAR ORBIT



PHASE 5: DESCENT TO THE MOON



PHASE 6: ON THE MOON



04 06 15 36



Charlie Duke
(CAPCOM)

Columbia, Houston. Over.

04 06 15 41



Michael Collins
(CMP)

Houston, Columbia. Reading you loud and clear. How me?

04 06 15 43



Charlie Duke
(CAPCOM)

Roger. Five by, Mike. How did it go? Over.

04 06 15 49



Michael Collins
(CMP)

Listen, babe. Everything's going just swimmingly, Beautiful.

Spoken on July 20, 1969, 7:47 p.m. UTC (42 years, 7 months ago)

Link to this: <http://apollo11.spacelog.org/04:06:15:49/#log-line-368>

Tweet 6

04 06 15 52



Charlie Duke
(CAPCOM)

Great. We're standing by for Eagle.

04 06 15 57



Michael Collins
(CMP)

Okay, He's coming along.

04 06 16 00



Charlie Duke
(CAPCOM)

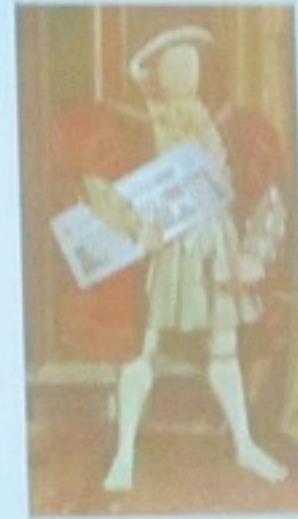
We copy. Out.

04 06 16 09



Charlie Duke
(CAPCOM)

And, Columbia, Houston. We expect to lose your high gain sometime during the powered descent. Over.



History Hack Day
January 22-23, 2011

hachette

PETER
PLAYBOOK



YAGSOL

Google



HMS Magnolia
Active: China

87% COMPLETE

Iollia paolina is the Captain and 242 volunteers are following this vessel

Jump Aboard

Google

Map data ©2012 Google, Tele Atlas - Terms of Use

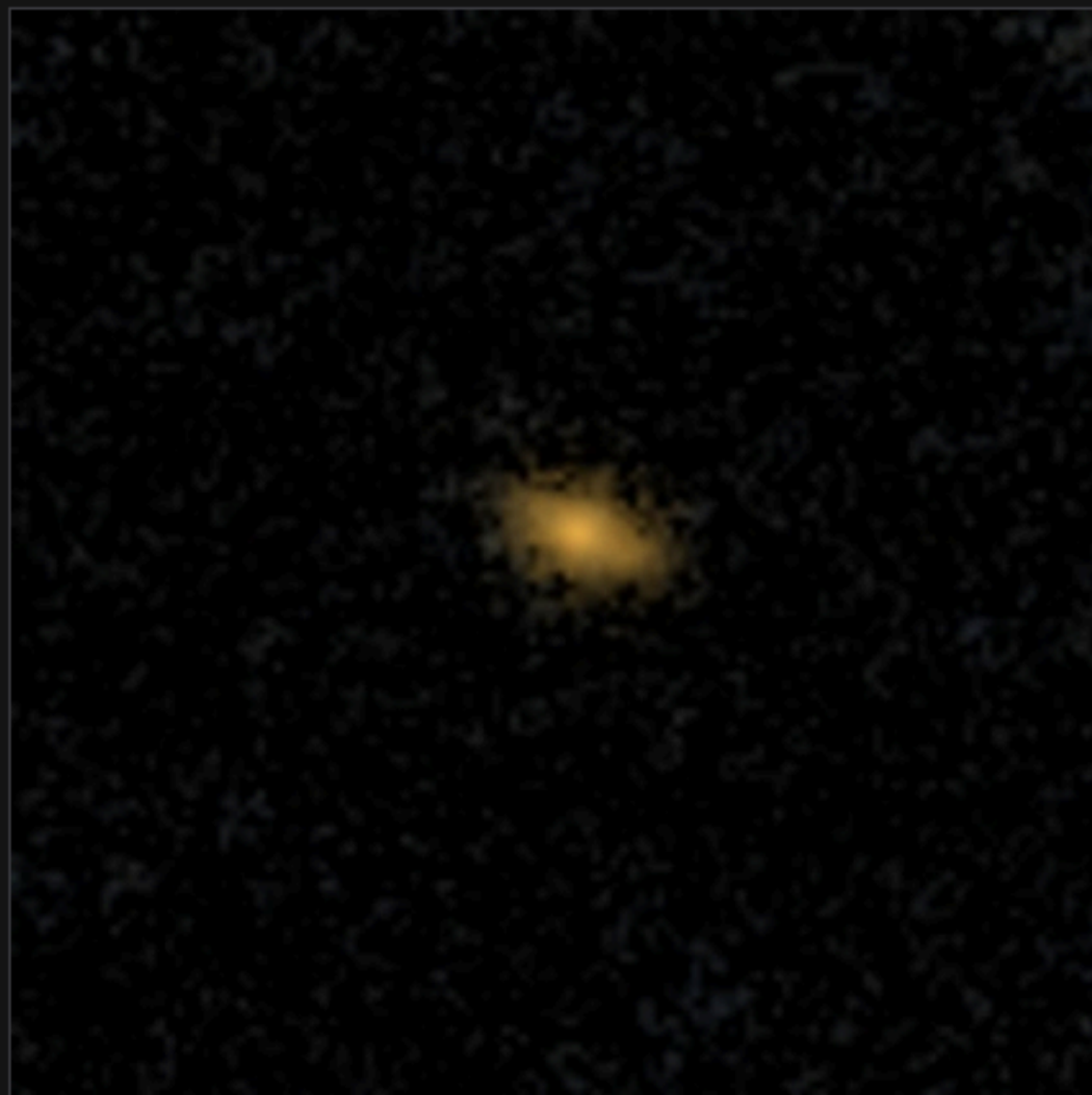
Old Weather: Our Weather's Past, the Climate's Future

Introduction

Help scientists recover worldwide weather observations made by Royal Navy ships around the time of World War I. These transcriptions will contribute to climate

Project Statistics

Old Weather transcriptions so far



+ [Invert galaxy image](#)

+ [Add to my favourites](#)

Classify galaxies

Answer the question below using the buttons provided.

Is the galaxy simply smooth and rounded, with no sign of a disk?



Smooth



Features or disk



Star or artifact



Cadet adactio

0 weather reports on 0 pages contributed to this voyage. **30 weather reports more** for promotion to **Lieutenant**



Enter the date of the logbook

[Show help](#)

Date

Location

Weather

Event

1. DATE

Day

Month

Year

OK

Tuesday 6th day of July
or At Barbados

H.M.S. "Weymouth"

From

Distance Run
Miles
Tenths

True Course

Revolutions per minute

Direction

Force

Weather

State of the

Barometer and attached Thermometer

Air

Wet Bulb

Sea

0800

2000

REMARKS

0100
0200
0300
0400
0500

EVE 2 1/2 30-40 80 77 78 72 040000

HMS Weymouth

Active: Pacific, South America



Light Cruiser - [Learn more](#)

Map and timeline



BABAR

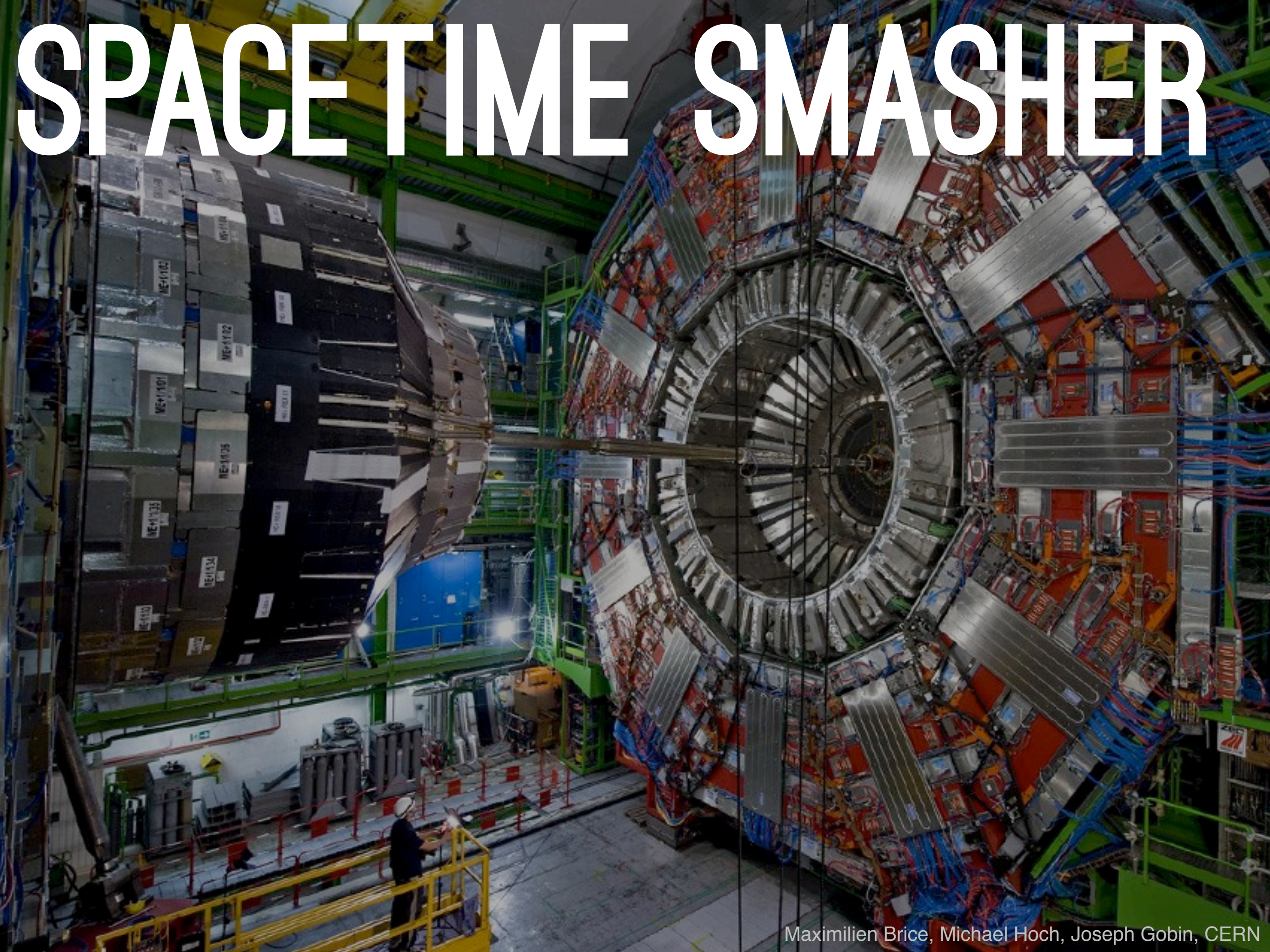


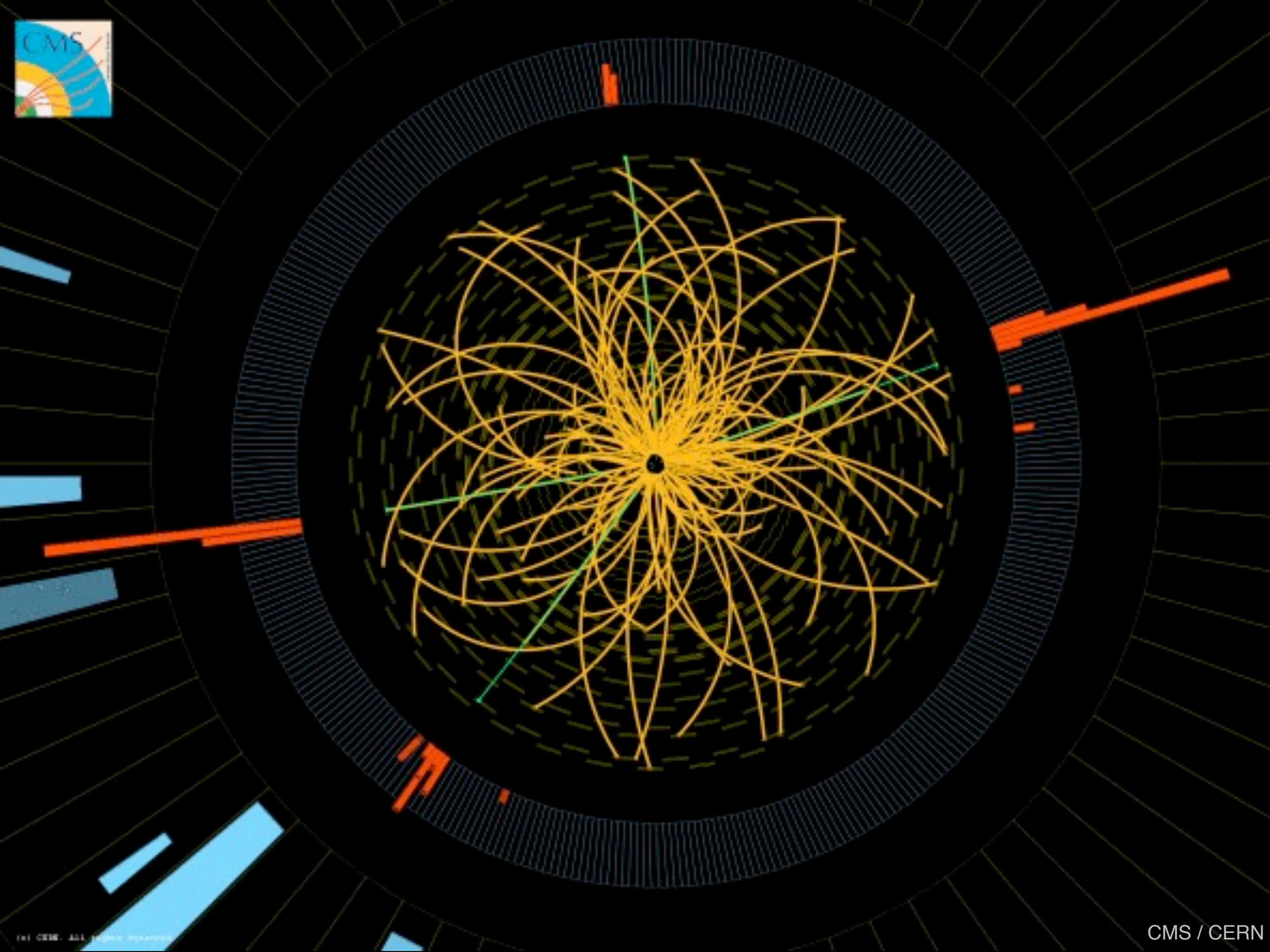
SPARK
RIES, LTD.

348 TONNE

1.2 METRE C-1 DNS

SPACETIME SMASHER





PARTICLE WINDCHIME



a particle detector into a custom instrument with the fundamental
the universe playing that instrument. Using data from the world's particle
collision event will play its detector, which can be configured exactly how
configure your instrument based on how it reacts to the properties of collision
explore the fundamental laws of the universe through sound. Listen carefully
to discover the Higgs boson!

data set
data file
pitch
Duration
Volume
Instrument

Field
Pitch
Duration
Volume

General
1
Radius
PID
Charge
Energy
X
Y
Z
Radius
Time
Px
Py
Pz
P-theta
P-phi

of the tone
me) of the tone
e (softness of the tone

Particle Windchime

Turn a particle detector into a custom instrument with the fundamental interactions of the universe playing that instrument. Using data from the world's particle colliders, each collision event will play its detector, which can be configured exactly how you want. You define your instrument based on how it reacts to the properties of colliding particles and explore the fundamental laws of the universe through sound. Listen carefully and you might discover the Higgs boson!

Note: This demo doesn't yet work via the web. You have to install & run it locally by following the instructions in the README found in the [source code](#).

Data set	Ge ▼
Data file	1 ▼
Pitch	▼
Duration	▼
Volume	▼
Instrument	▼
<input type="button" value="Play"/>	

Field	Description
Pitch	The frequency of the tone
Duration	The length (time) of the tone
Volume	The loudness/softness of the tone
Instrument	The musical instrument

Values	Description
PD	Particle ID
Charge	Electrical Charge (plus, minus, or zero)
Energy	Total energy of particle
X	X-position of the interaction
Y	Y-position of the interaction
Z	Z-position of the interaction
Radius	Distance from point of collision
Time	Clock-time since collision
Px	X-direction of movement
Py	Y-direction of movement
Pz	Z-direction of movement
P-theta	Angular Direction (Polar)
P-phi	Angular Direction (Azimuthal)

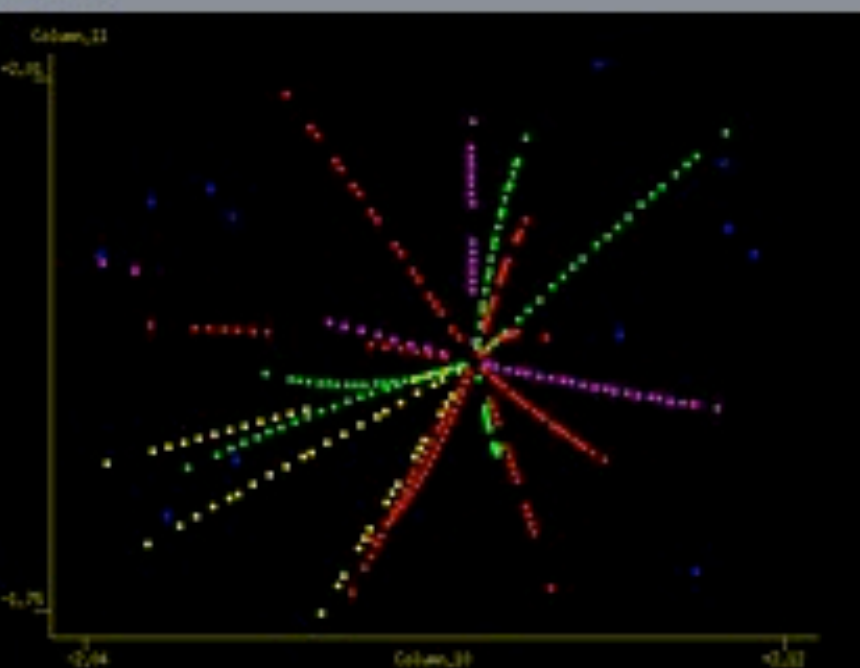
Source Code

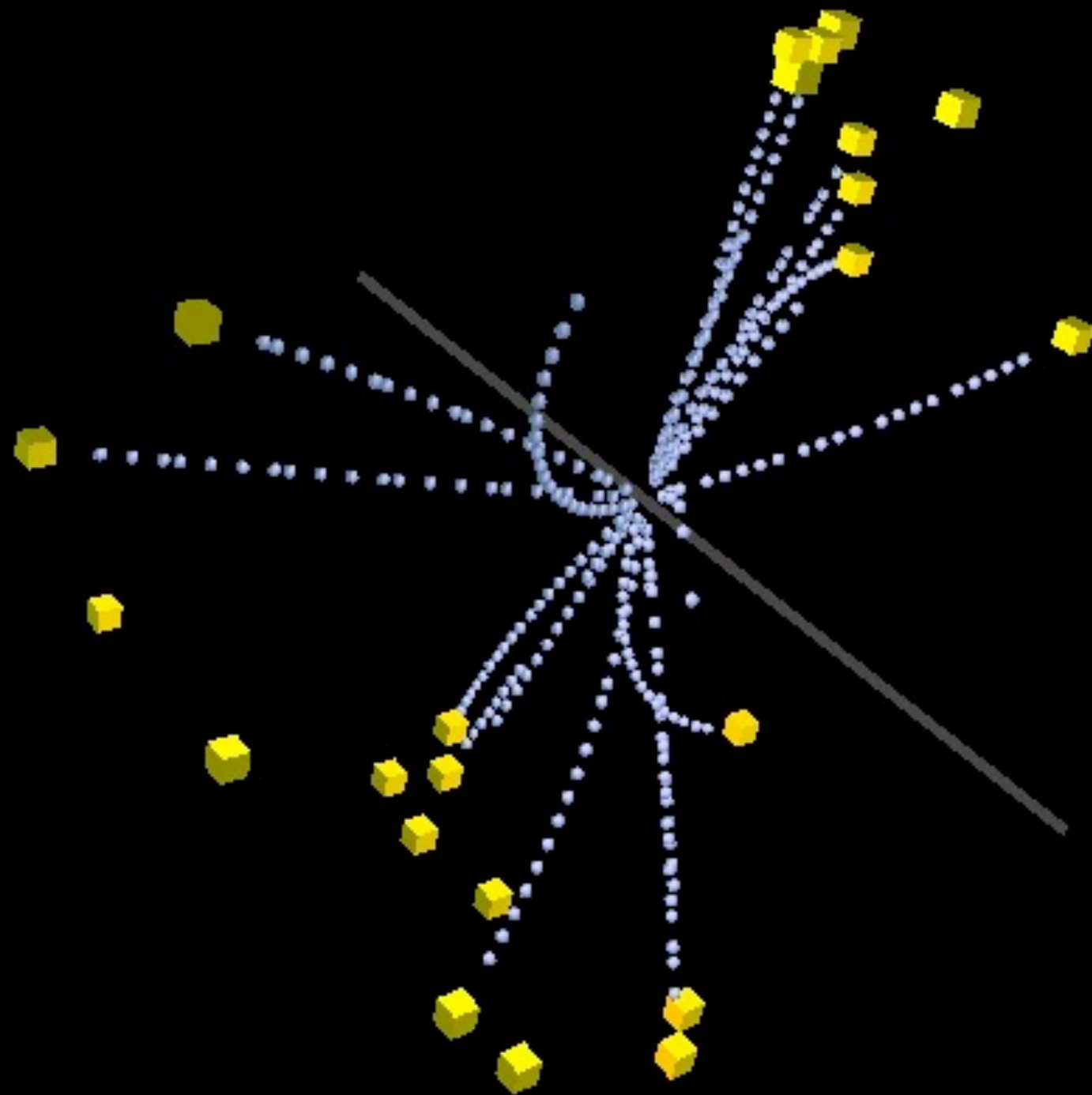
Our code can be found at: [Github](#)

Windchime Hackers

Matt Bell mbells@stanford.edu
Derek Catright ([@derek](#))
David Harris ([@physicsdavid](#))
Jeremy Nager
Michael Parrish ([@micha_el_parrish](#))
Janine Scott ([@janinescotti](#))
Ole Waldmann ([@ole_wa](#))

More info





controlP5window

PLAY STOP PAUSE

Pitch Duration Volume Instrument

Track #
PID
Charge
E
px
py
pz
Detector number
Detector time
Detector x
Detector y
Detector z
Detector r
Detector cos(theta)
Detector phi

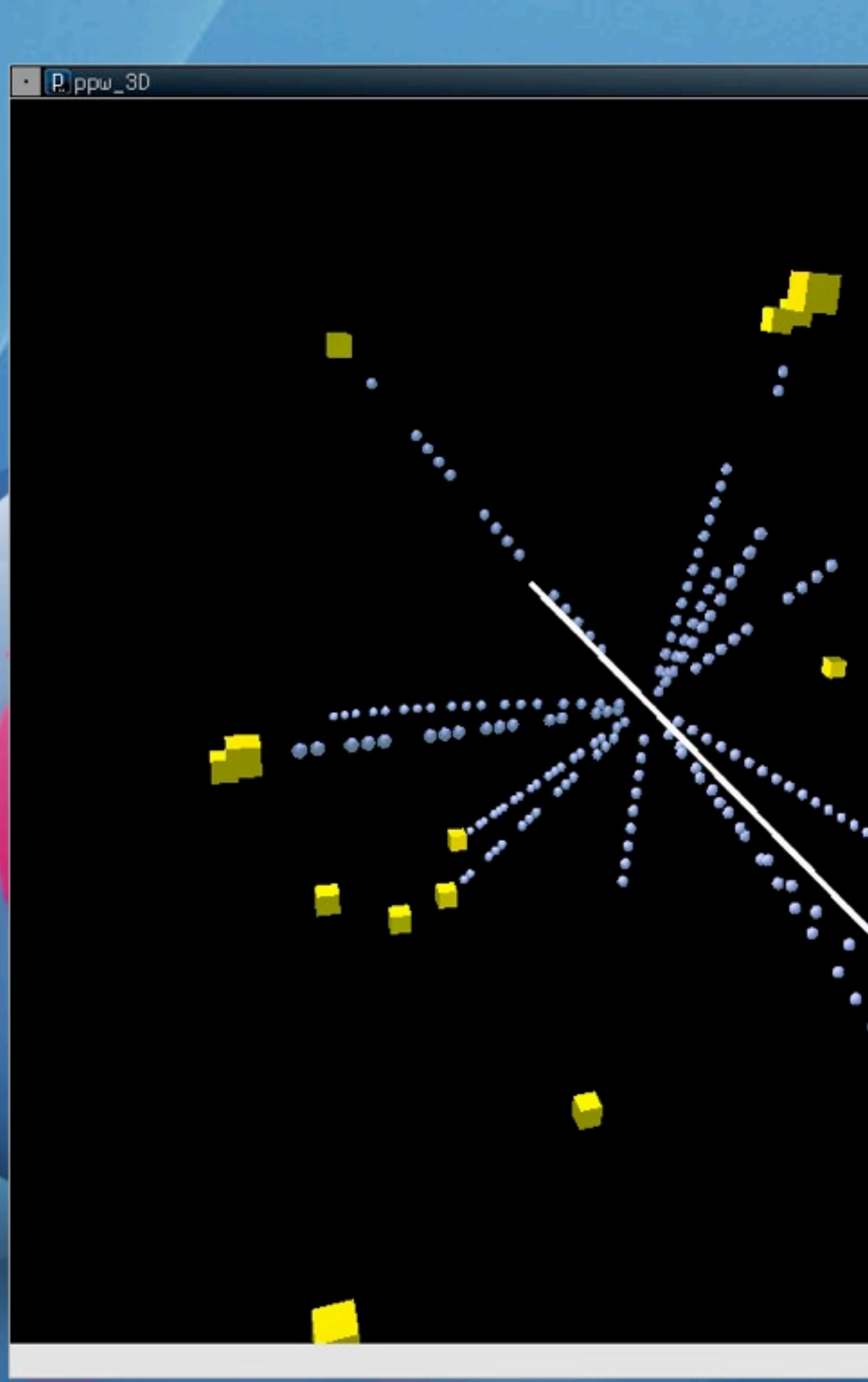
E+E-	MAPPING 0
MU+MU-	MAPPING 1
TAU+TAU-	MAPPING 2
UDS	MAPPING 3
CCBAR	MAPPING 4
B+B-	MAPPING 5
BOBOBAR	MAPPING 6

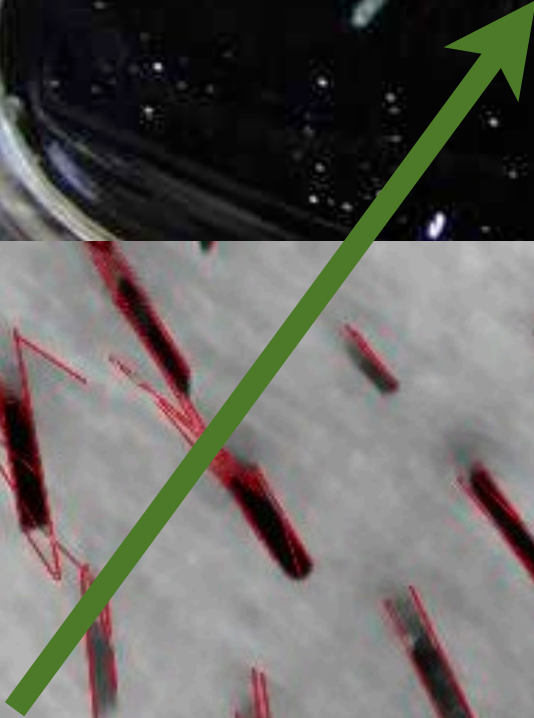
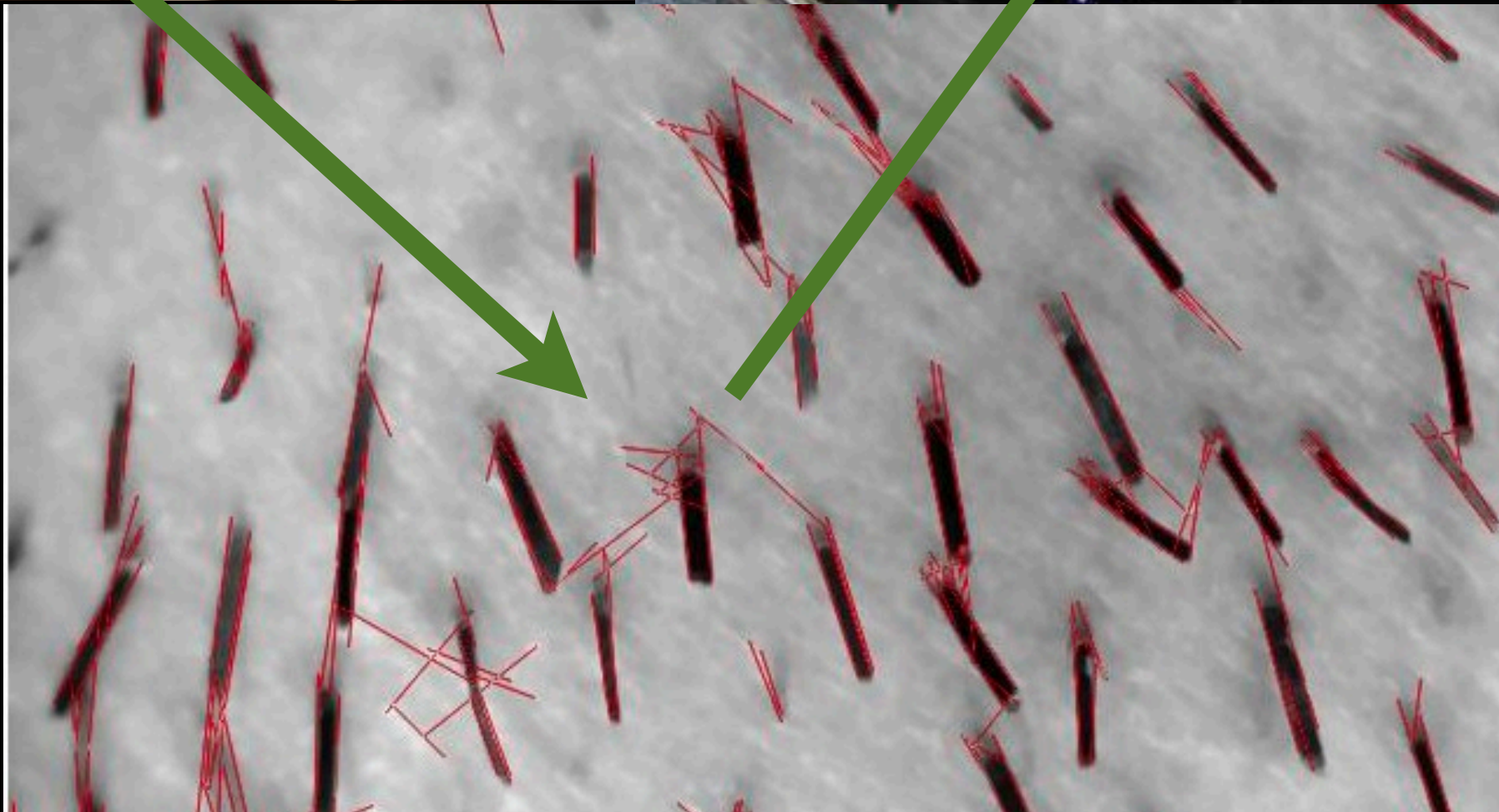
216.00

TEMPO

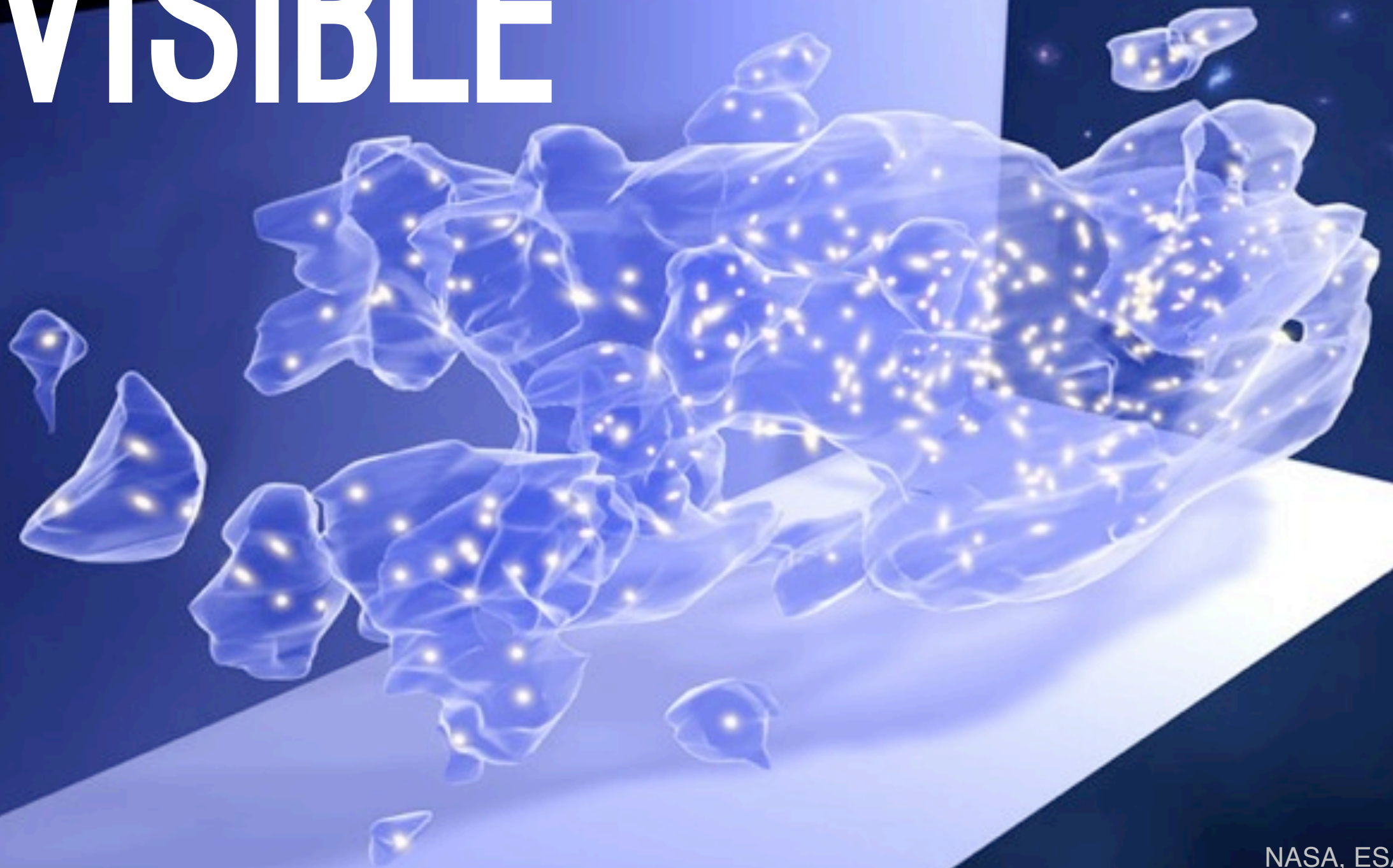
MUTE

BLIND

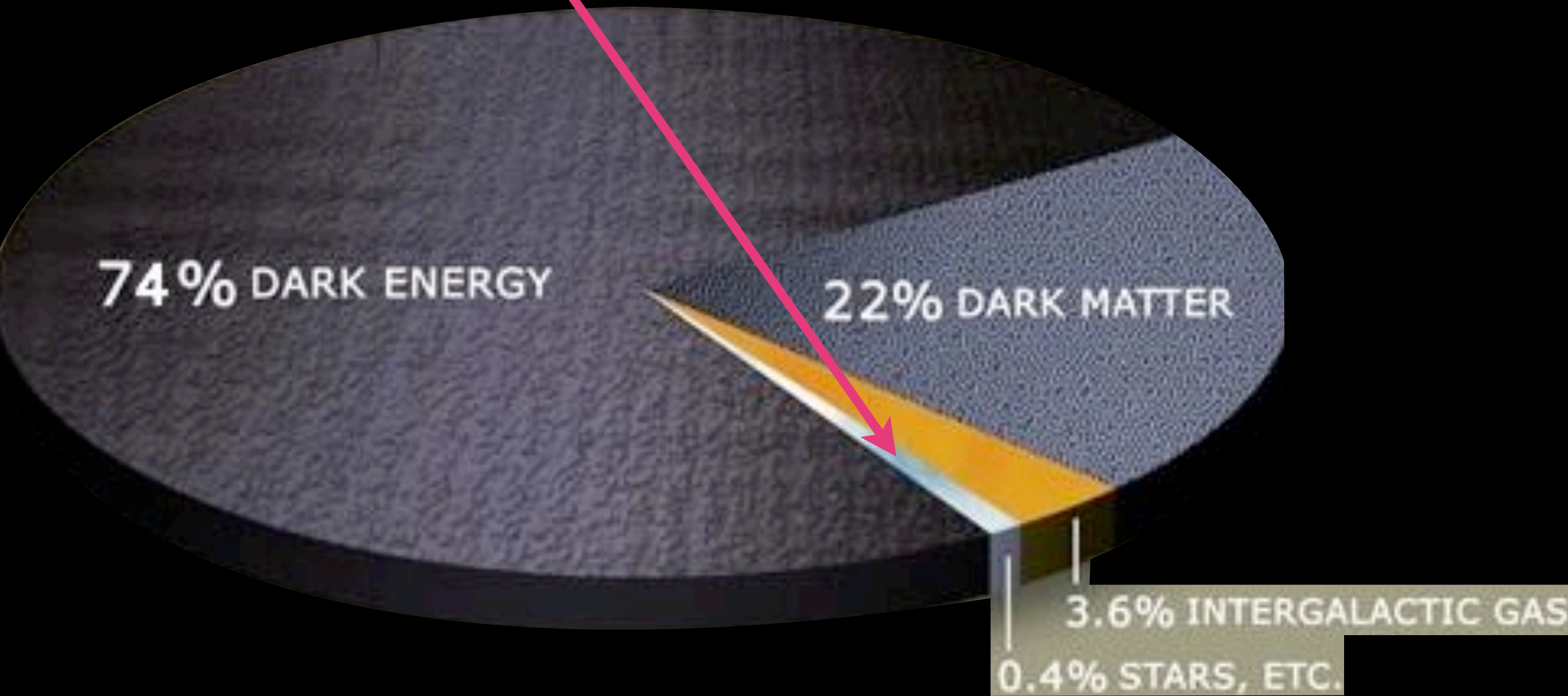




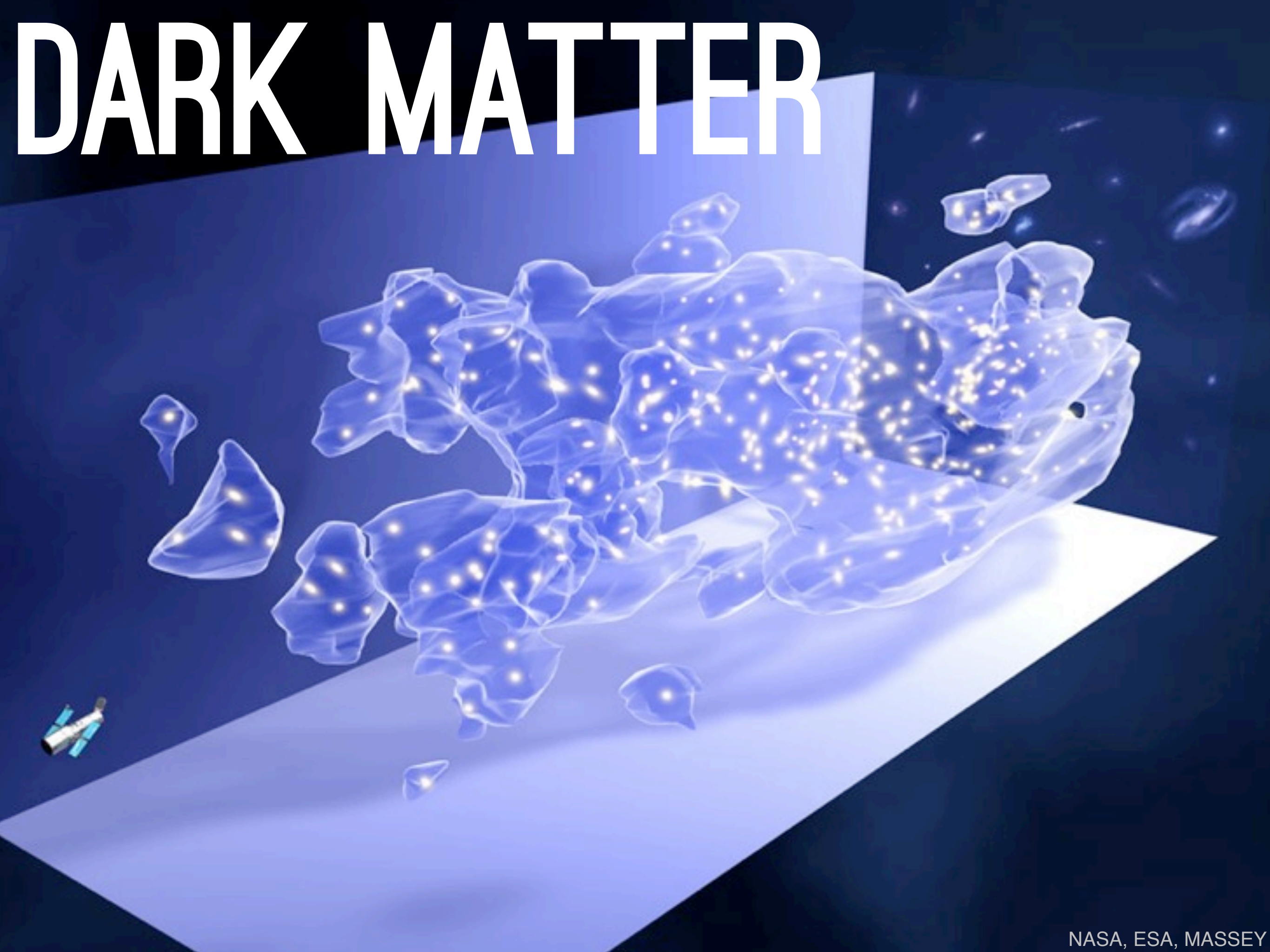
95% OF EVERYTHING IS
INVISIBLE



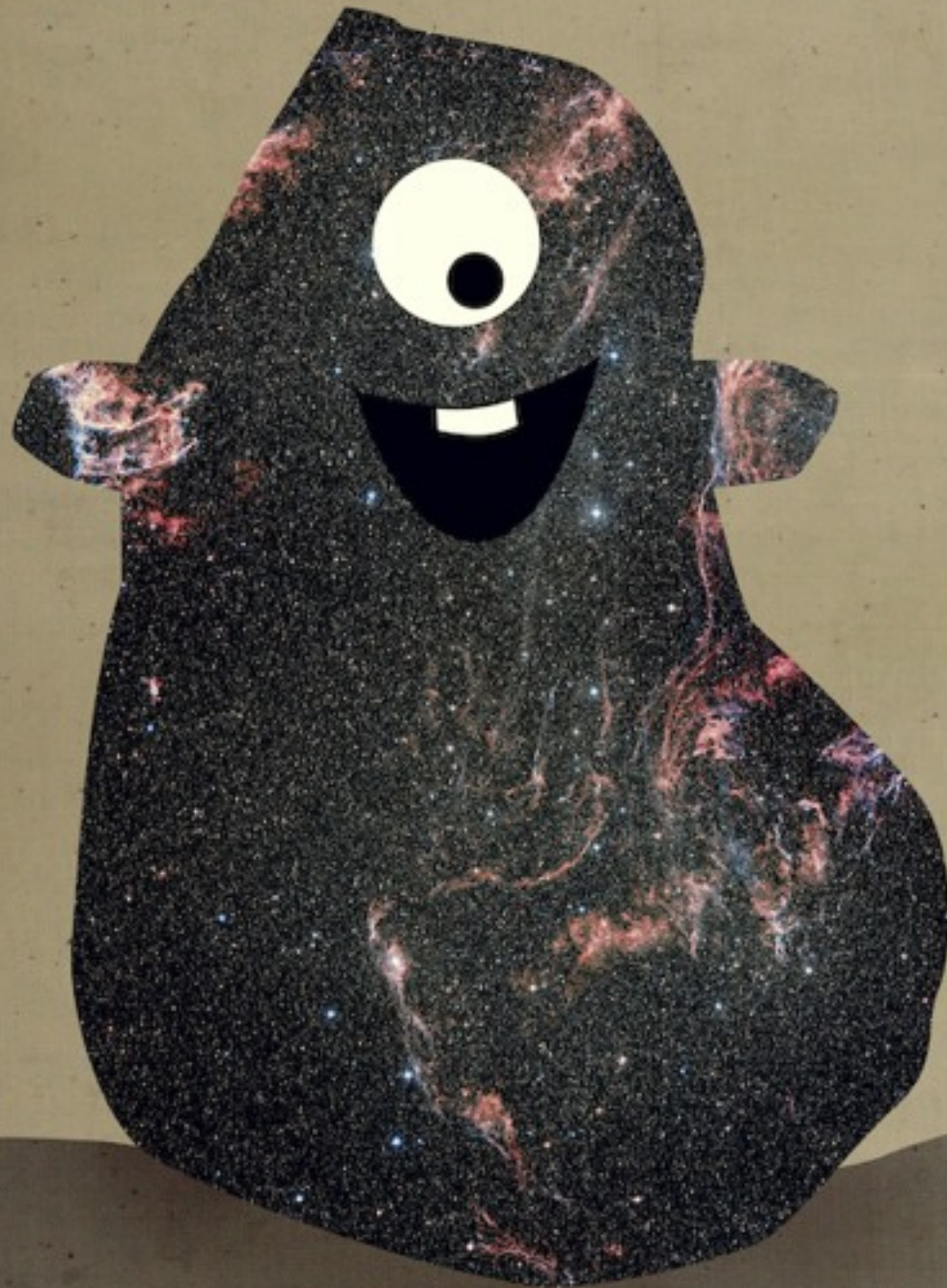
ETC.



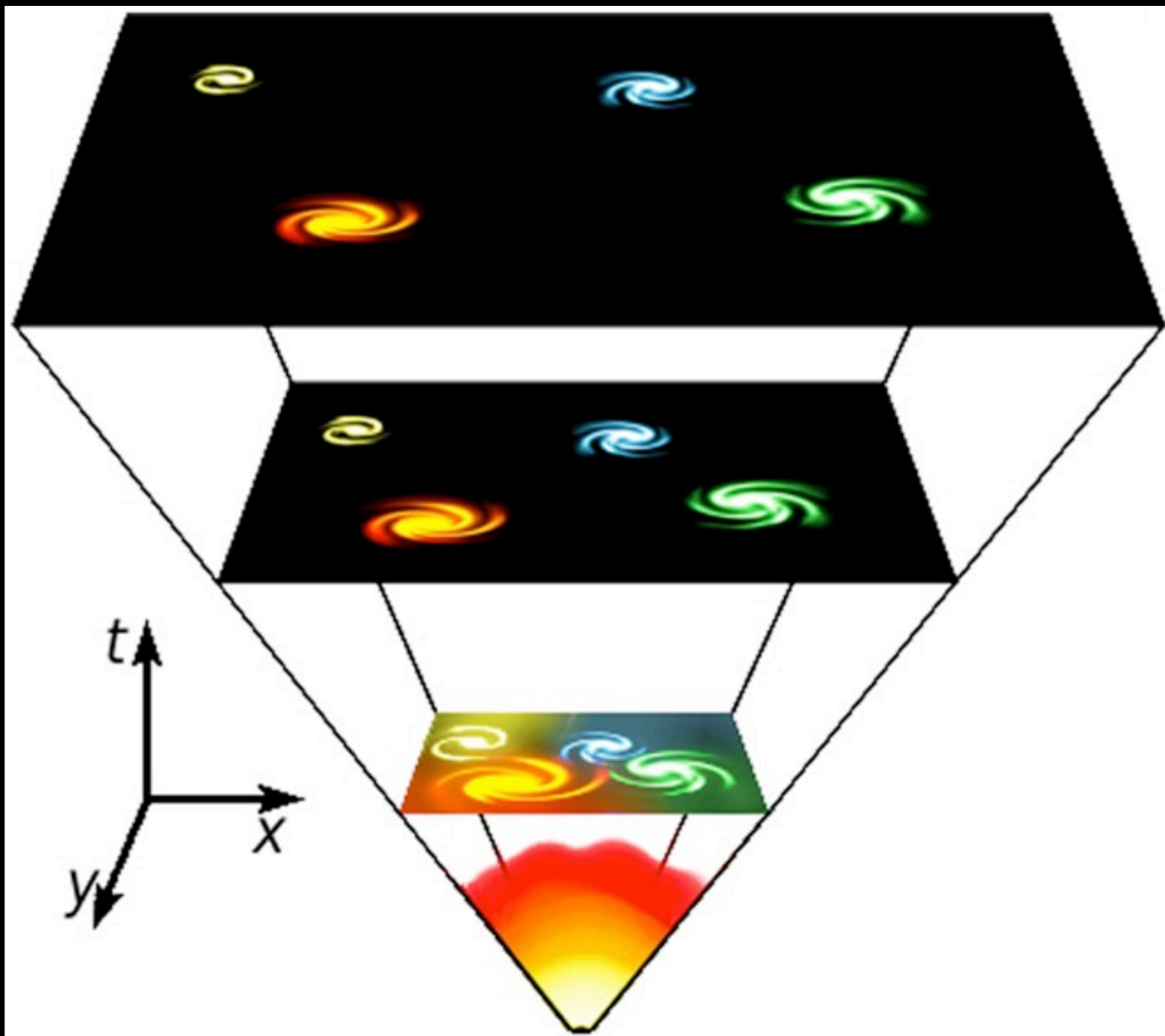
DARK MATTER



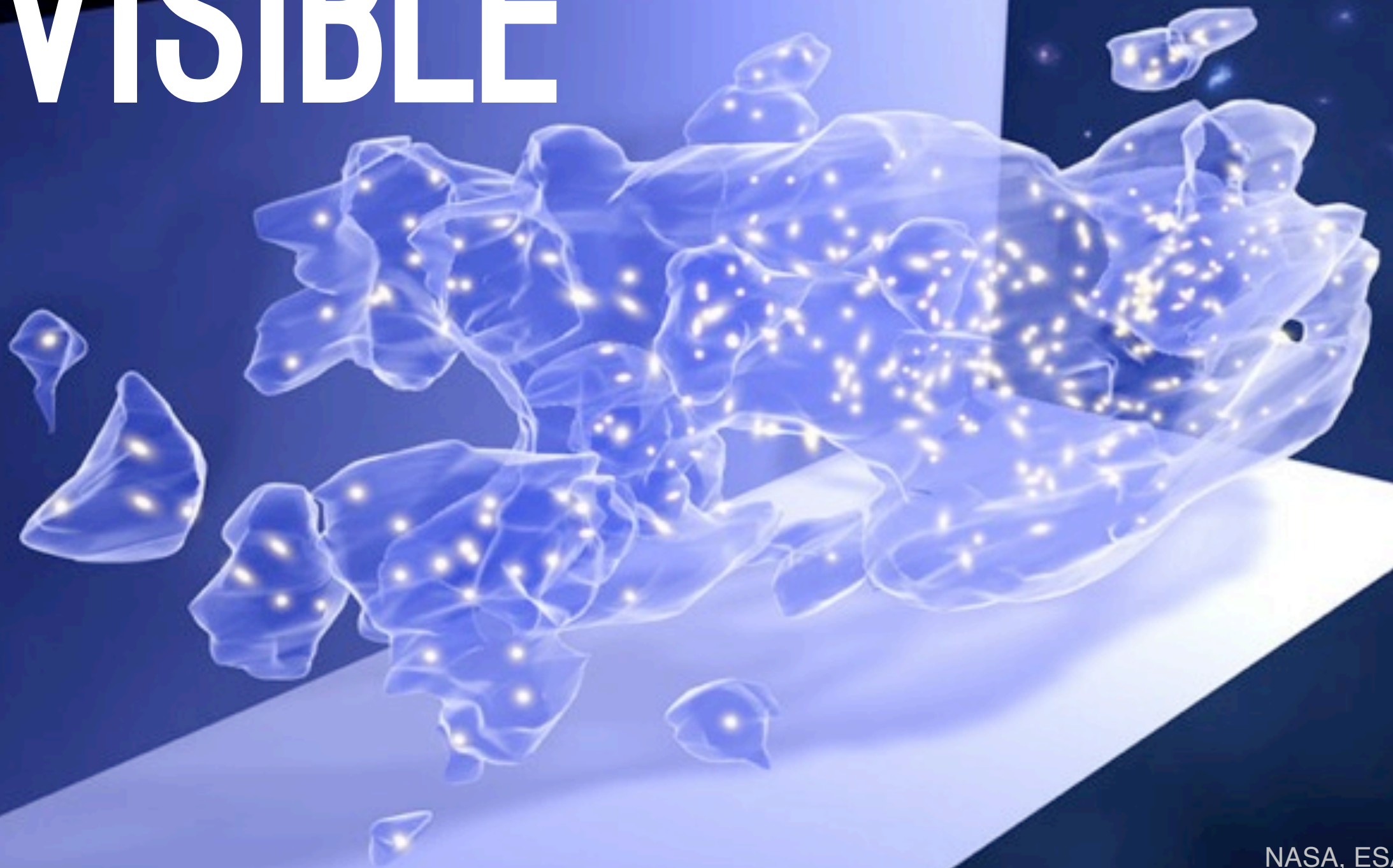
**this is a
friendly
universe.**



DARK ENERGY



95% OF EVERYTHING IS
INVISIBLE





Animal Superpowers by Chris Wuebken

SUPERPOWERS?



SENSE AFFORDANCES



SYNESTHESIA



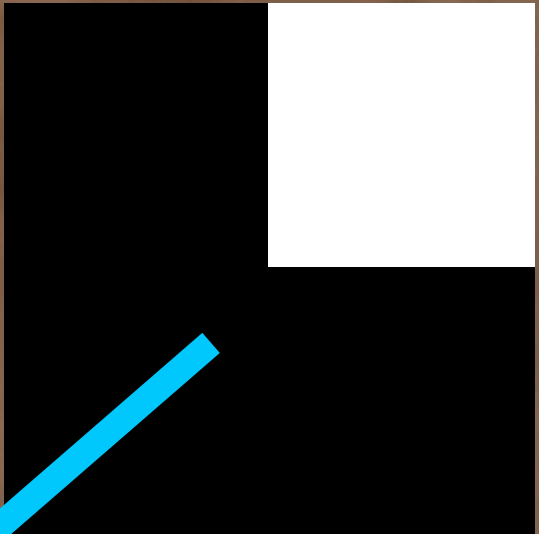
SYNESEIZURE



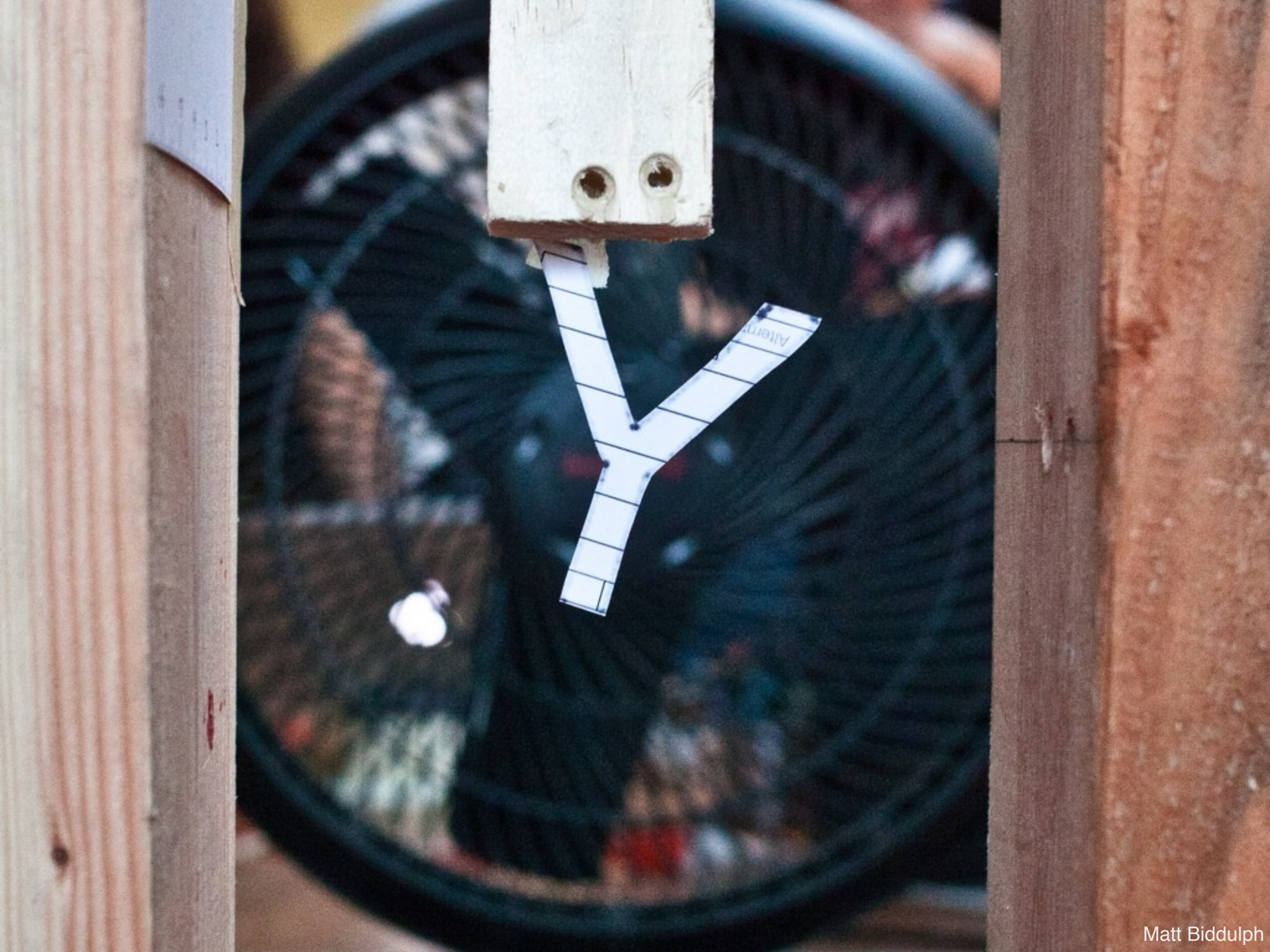


Matt Biddulph





**FEELING
SIGHT**





Dripping with bio



Paul Mison



Stephanie Vacher

★ Google Chart Tools: Image Charts

[Home](#)[Docs](#)[FAQ](#)[Forum](#)[Terms](#)

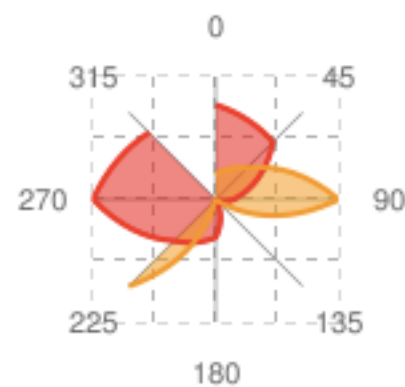
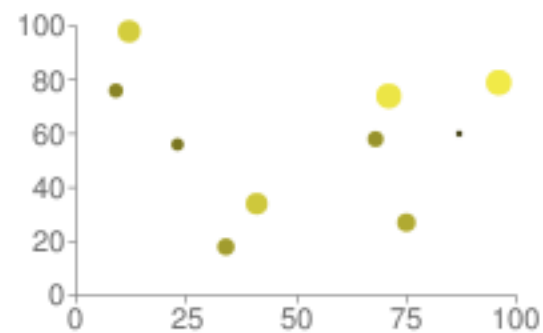
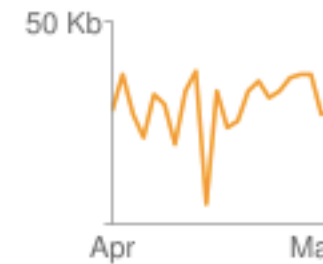
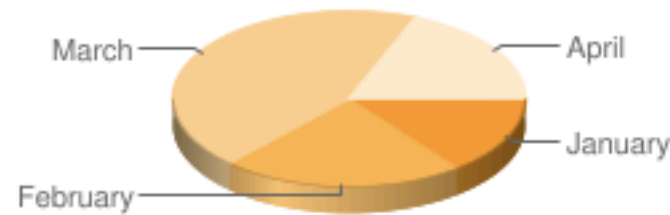
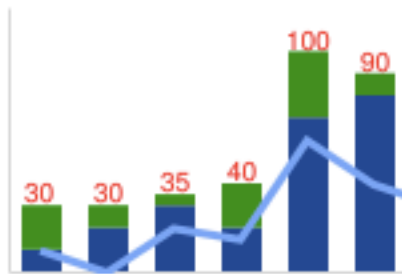
What is the Google Chart API?

The Google Chart API lets you dynamically generate charts with a URL string. You can embed these charts on your web page, or download the image for local or offline use.

What Kind of Charts Can I Make?

You can make a lot of things with the Google Chart API:

Some things that look like charts...



How Do I Start?

1. Read the [Getting Started](#) page.
2. Look at some charts in the [gallery](#).
3. Try making your own chart on our [chart wizard](#).

Prerequisites

To use this API, you should have a little HTML experience; a little patience to read the documentation; and a little persistence to keep trying if your first charts don't look as you expect them to.


And some that don't...



Average Electric Usage



Some tables require a Yahoo! login to access data. Please [sign in](#) to see and enable all tables. ✕

 YOUR YQL STATEMENT [permalink](#)

show tables

XML JSON Diagnostics Debug TEST

FORMATTED **TREE** Wrap Text Expand

```
<?xml version="1.0" encoding="UTF-8"?>
<query xmlns:yahoo="http://www.yahooapis.com/v1/base.rng"
  yahoo:count="150" yahoo:created="2012-03-04T16:17:43Z" yahoo:lang="en-US">
  <diagnostics>
    <publiclyCallable>true</publiclyCallable>
    <user-time>1</user-time>
    <service-time>0</service-time>
    <build-version>25587</build-version>
  </diagnostics>
  <results>
    <table>answers.getbycategory</table>
    <table>answers.getbyuser</table>
    <table>answers.getquestion</table>
    <table>answers.search</table>
    <table security="APP">appdb.application</table>
    <table>appdb.categories</table>
    <table>atom</table>
    <table>avatars.get</table>
    <table>contentanalysis.analyze</table>
    <table>csv</table>
    <table>data.uri</table>
    <table security="USER">fantasysports.draftresults</table>
    <table security="USER">fantasysports.games</table>
    <table security="USER">fantasysports.leagues</table>
```

THE REST QUERY [How do I use this?](#)

[hide](#)

http://query.yahooapis.com/v1/public/yql?q=show%20tables&diagnostics=true

- ▶ QUERY ALIASES
- ▶ MY YQL
- ▶ RECENT QUERIES
- ▼ EXAMPLE QUERIES
- get 10 flickr "cat" photos
- get a flickr photo by photo ID
- get the flickr image url by photo ID
- get san francisco geo data
- get san francisco woeid
- get geo details about san francisco
- find sushi restaurants in san francisco

DATA TABLES (150)

Show Community Tables [What's this?](#)

- ▼ answers
- answers.getbycategory
- answers.getbyuser
- answers.getquestion
- answers.search
- ▶ appdb
- ▶ avatars
- ▶ contentanalysis
- ▶ fantasysports
- ▶ flickr
- ▶ geo
- ▶ local



News Feed

Your Actions

Pull Requests

Issues

**necolas** commented on issue 1005 on h5bp/html5-boilerplate 22 minutes ago

I came across an early version of the text-crushing approach (2003) -
<http://www.maxdesign.com.au/articles/headings-as-images/>

**ArnaudDelafosse** started following adactio 7 hours ago

adactio has 8 public repos and 127 followers

**paulirish** started following slightlyoff 12 hours ago

slightlyoff has 2 public repos and 4 followers

**paulirish** started watching slightlyoff/cassowary-js-refactor 12 hours ago

cassowary-js-refactor's description:
 Repo for tracking my changes to the JS Cassowary port:
<http://www.badros.com/greg/cassowary/js/quaddemo.html>

**Bugster** closed issue 1007 on h5bp/html5-boilerplate a day ago

HTML Compressor failing when compressing non-JS script tags

**Bugster** commented on issue 1007 on h5bp/html5-boilerplate a day ago

Alright then, thanks

**KenanY** edited the h5bp/html5-boilerplate wiki a day ago

Edited Sites using HTML5 Boilerplate. [View the diff »](#)

Your Repositories (11)

New repository

Find a repository...

All Repositories

Public

Private

Sources

Forks

😊 [adactio/Huffduffer](#)😊 [adactio/FitText.js](#)😊 [adactio/Pattern-Primer](#)😊 [adactio/html5forwebdesigners](#)😊 [adactio/responsive-images-alt](#)😊 [adactio/Responsive-Images](#)😊 [veganstraightedge/microformats2](#)😊 [veganstraightedge/NoMoreSharecropping.org](#)😊 [adactio/Huffduffer-hotline](#)😊 [adactio/spacelift](#)

Show 1 more repository...

Watched Repositories (10)

Find a repository...

All Repositories

Public

Private

Sources

Forks

GET YOUR HANDS DUSTY

*An
Introduction
to the Study of*
STELLAR
STRUCTURE



Chandrasekhar

PROBLEMS
IN
ASTROPHYSICS

CLERKE

MODERN
ASTRO-
PHYSICS

HERBERT
DINGLE

Black Holes

[Previous Video: French Invasion of Russia](#)

[Next Video: Glucose Ins](#)

Black Holes

$1.5 - 3 \times \text{Sun} \rightarrow \text{Neutron Star}$

$\text{Star} > 20 \times \text{Sun}$
 $\text{Remnant} > 3 - 4 \times \text{Sun}$

White Dwarf

Neutron Star

Singularities

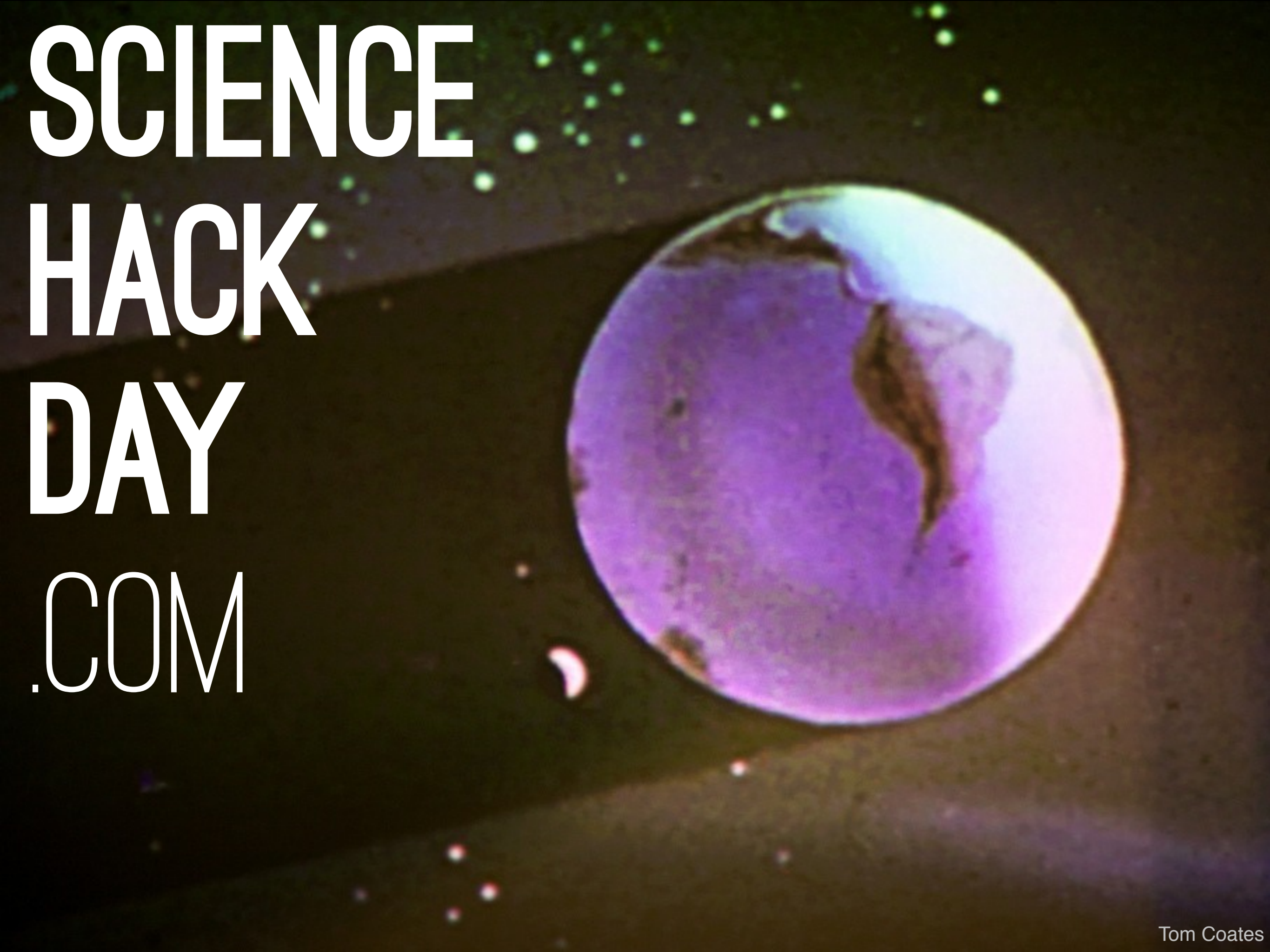
All the mass of
Infinite Mass
Density

The diagram illustrates the final stages of a star's life. It shows a 'White Dwarf' represented by a circle, a 'Neutron Star' represented by a dot, and a 'Singularity' represented by a central point within a larger circle. Arrows indicate the progression from the white dwarf to the neutron star, and then to the singularity. A play button is overlaid on the diagram.

A large image of a cosmic scene, possibly a galaxy or nebula, with a play button overlay in the center.

YAY
FOR
HACK
DAYS





SCIENCE

HACK

DAY

.COM

THANK YOU.



ADACTIO.COM

ARIELWALDMAN.COM

MATTBELLIS.COM