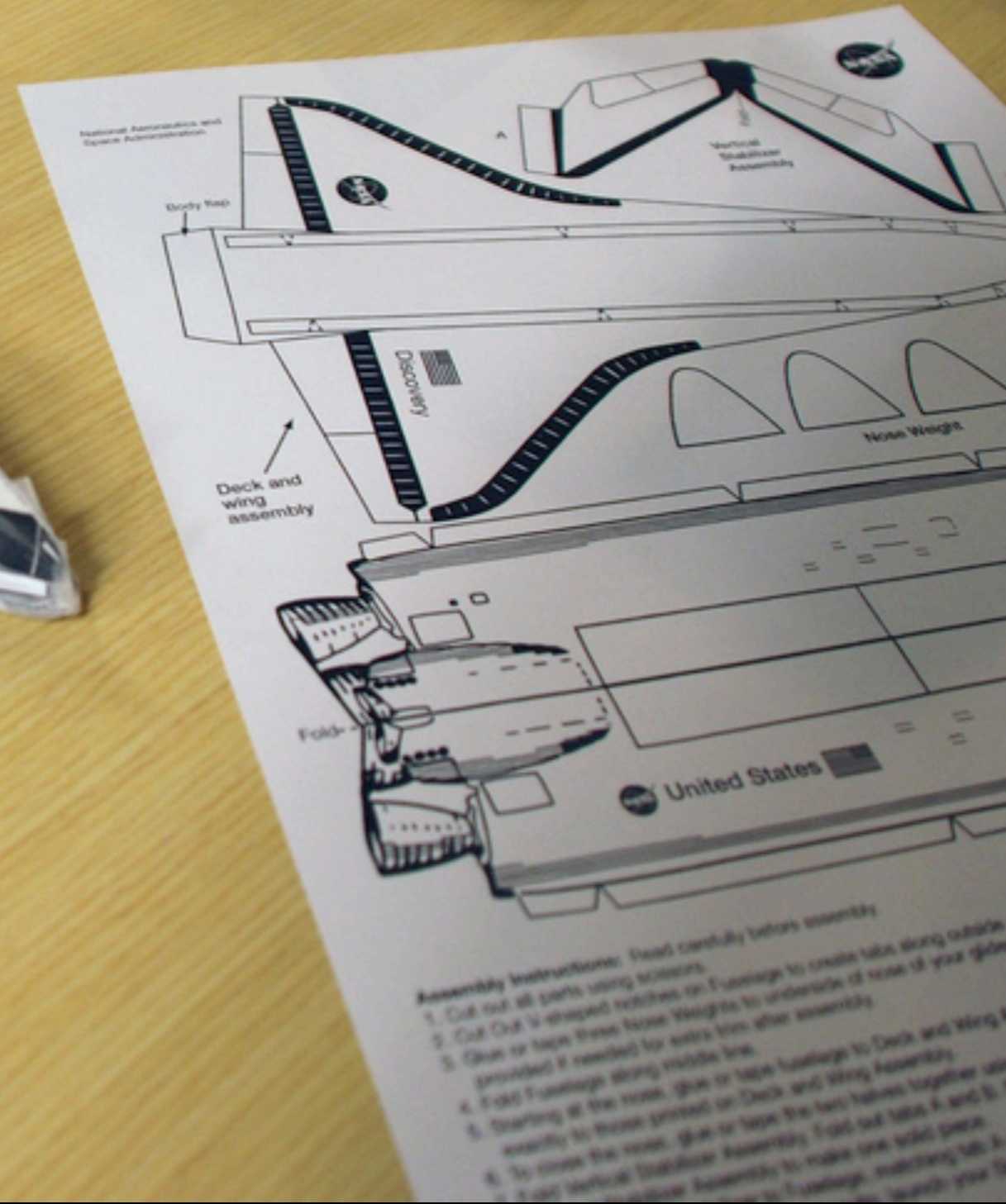
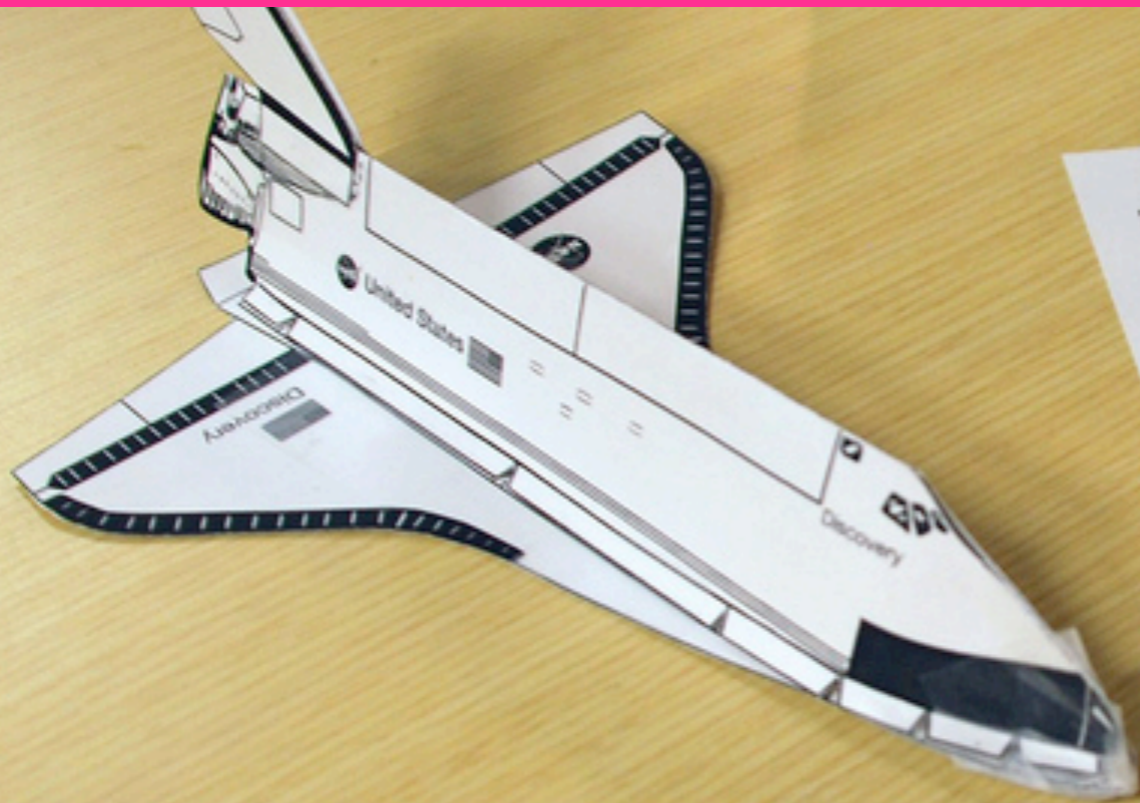
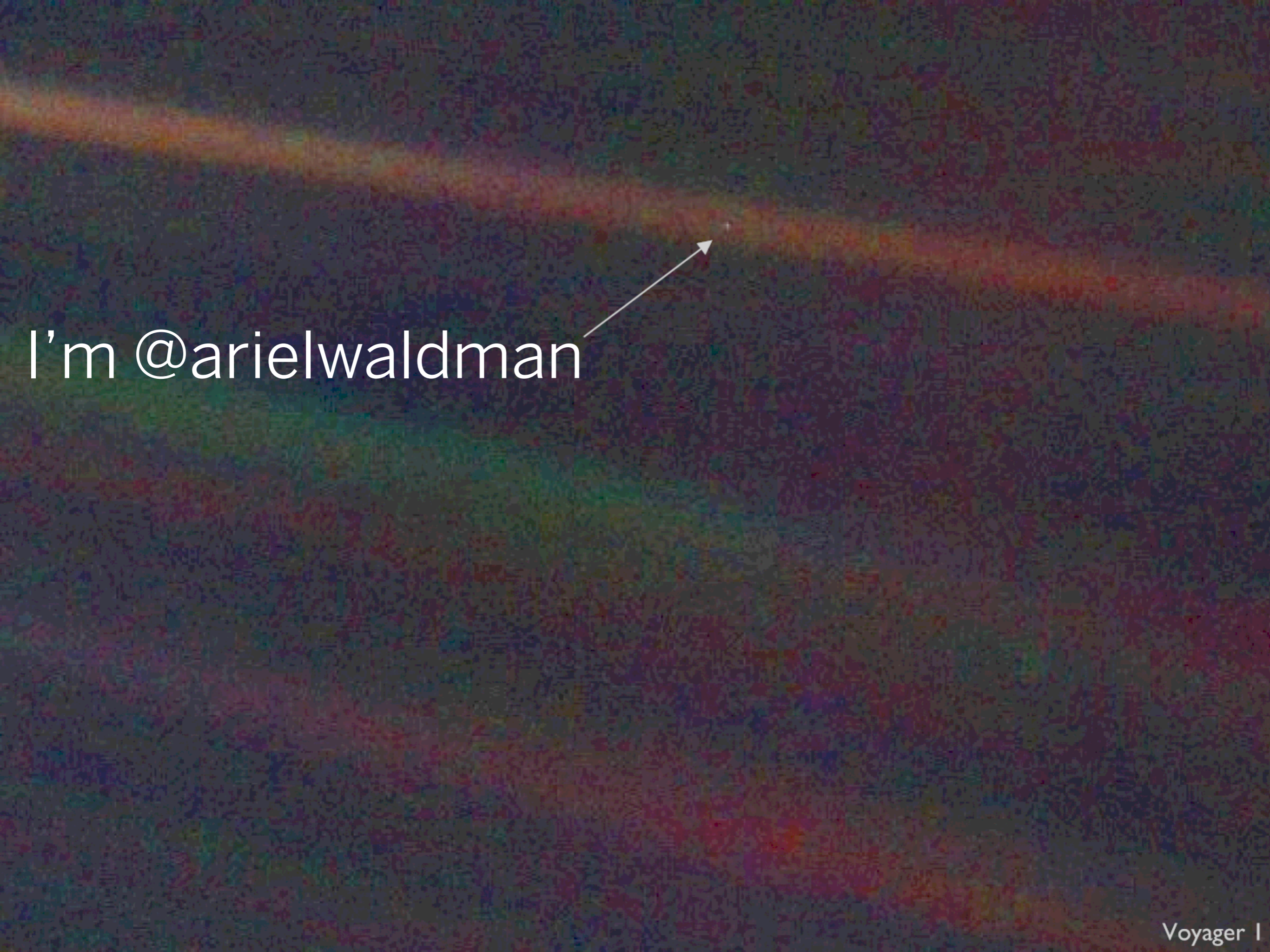


hacking space + science





I'm @arielwaldman

hacking space observation

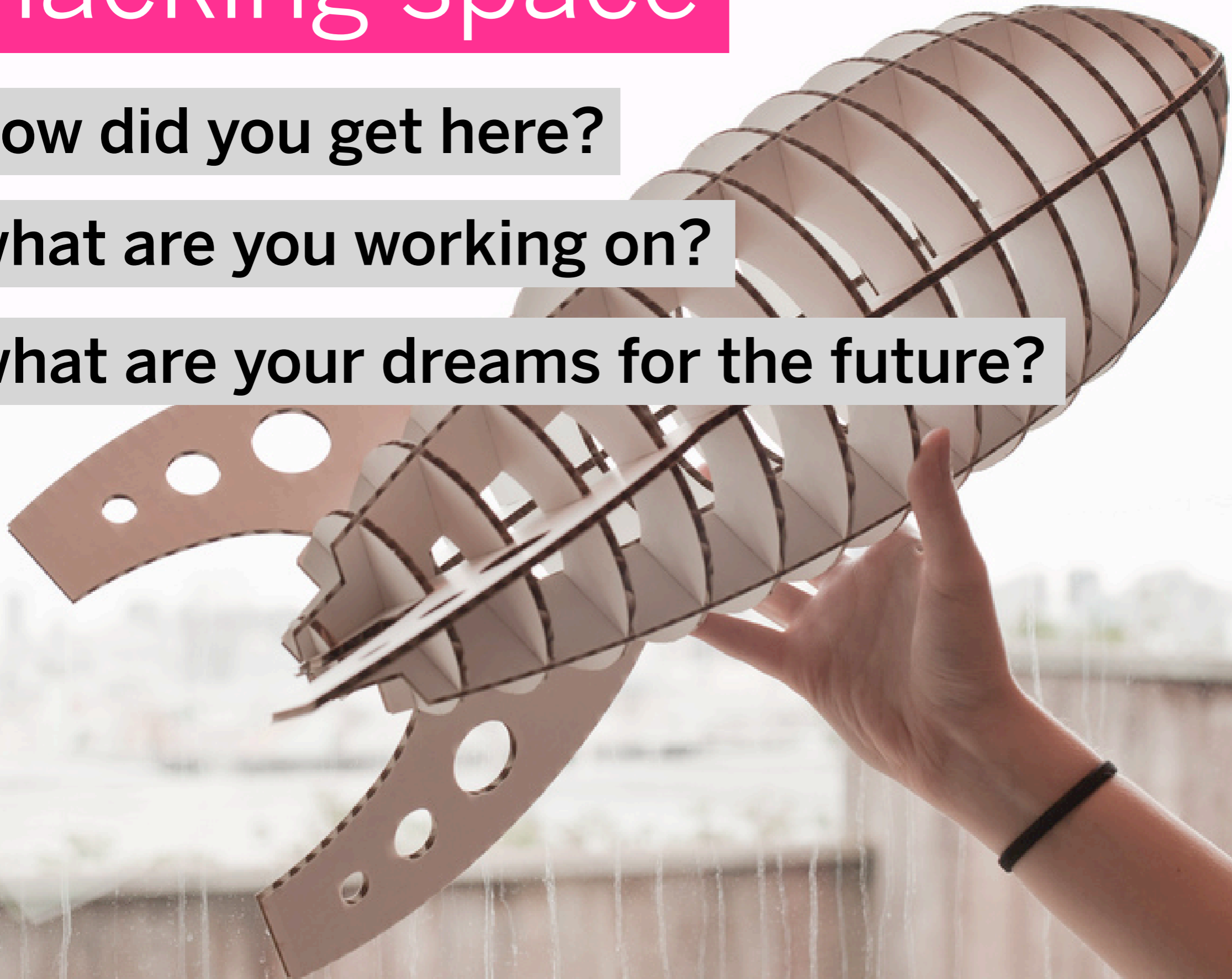


hacking space

how did you get here?

what are you working on?

what are your dreams for the future?



hacking space

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Discovery
CHANNEL

WHEN WE LEFT EARTH
THE NASA MISSIONS



IN COLLABORATION WITH NASA



FOR THE FIRST TIME IN HD





NASA CoLab connects communities inside and outside NASA to collaborate.



Home

What is NASA CoLab?

NASA CoLab connects communities inside and outside NASA to collaborate. What types of collaboration? Just about anything! From providing a framework for people to work directly with NASA scientists to supporting [open source projects](#), we stimulate exploration surrounding the space program. CoLab is a NASA program that enables collaboration via [virtual and physical coworking](#) environments as well as emerging technologies. What's the end goal? Through collaborating on projects and programs we can make NASA-at-large more open and innovative.

Get Involved!

CoLab is making it easier to collaborate with NASA, but there are many ways of collaborating with and participating in NASA's work right now! Come to one of our upcoming [Luna Philosophie events](#).

Existing NASA projects in the collaborative, participatory spirit:

* [NASA World Wind](#) 3D Planetary data visualization

Twittering:

congratulations Dusters
(volunteers for
Stardust@Home program)!
<http://bit.ly/ay3o1X>
#opengov #NASA 117 days
ago

CoLab Mailing List

Stay informed on our latest
news!

E-mail: *

- Subscribe
- Unsubscribe

Submit

ABOUT

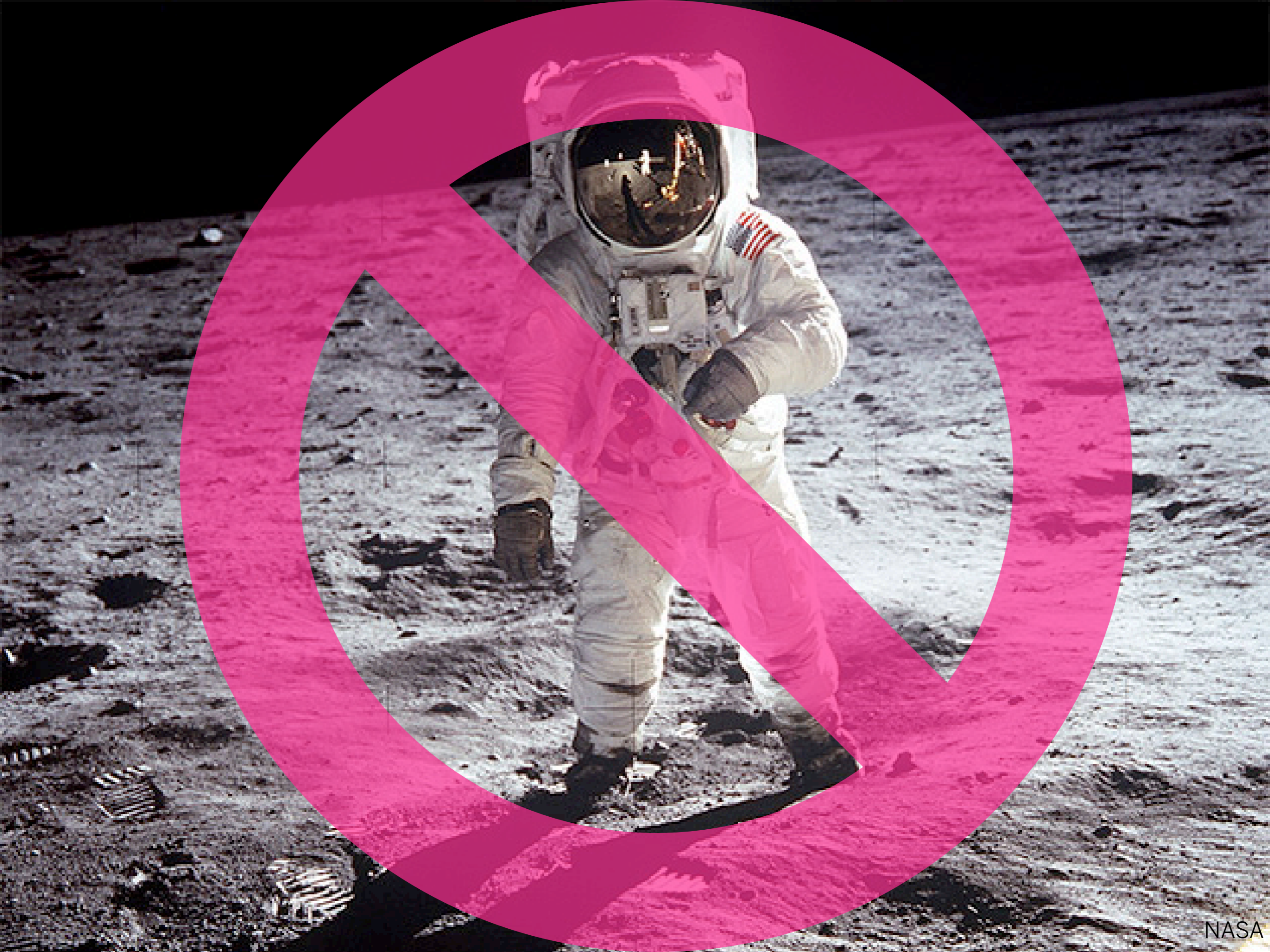
OPEN SOURCE -
COSMOSCODE

LUNA PHILOSOPHIE

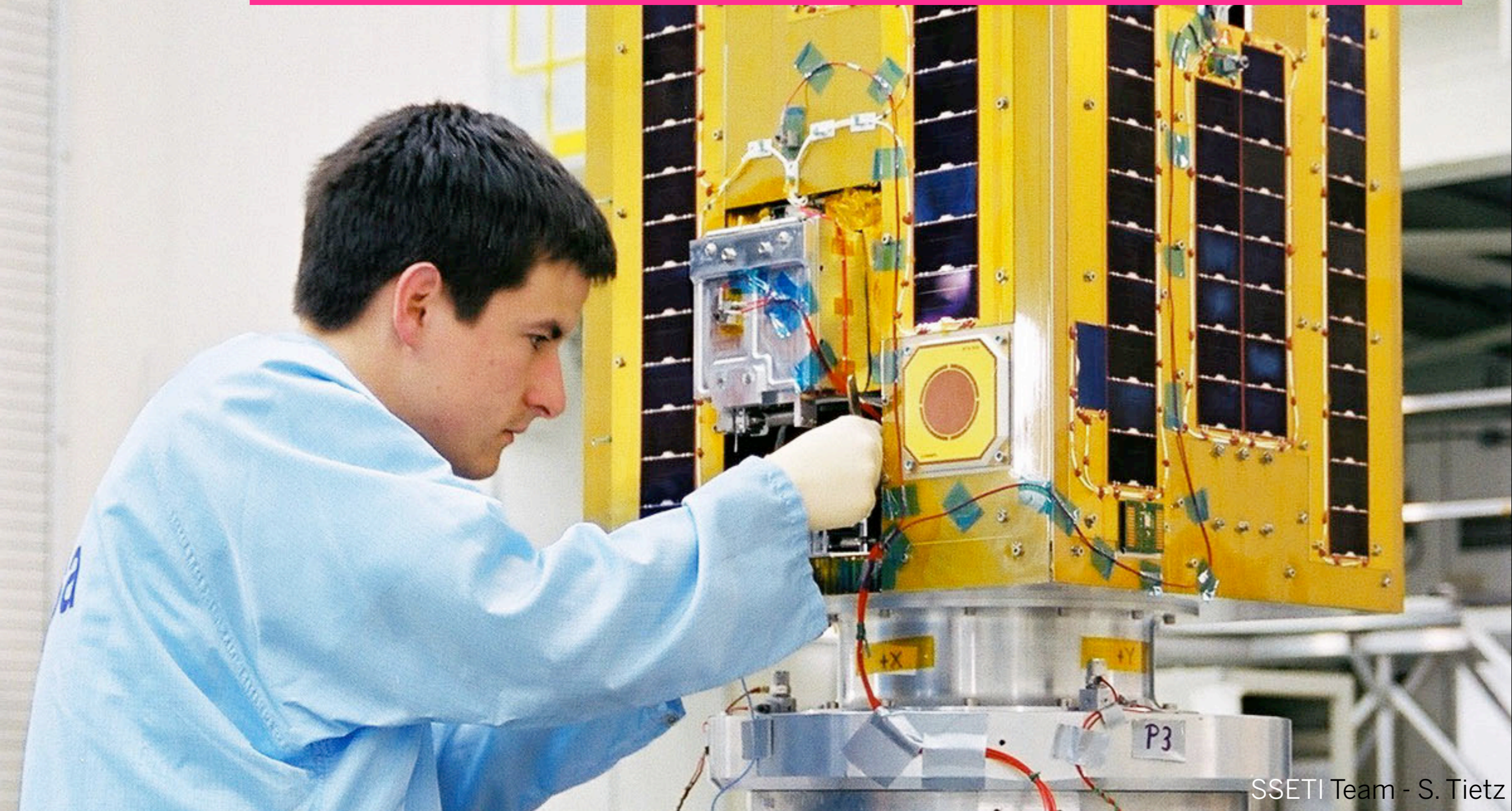
COWORKING @ NASA

CONTACT US





doing something
changes how you see it

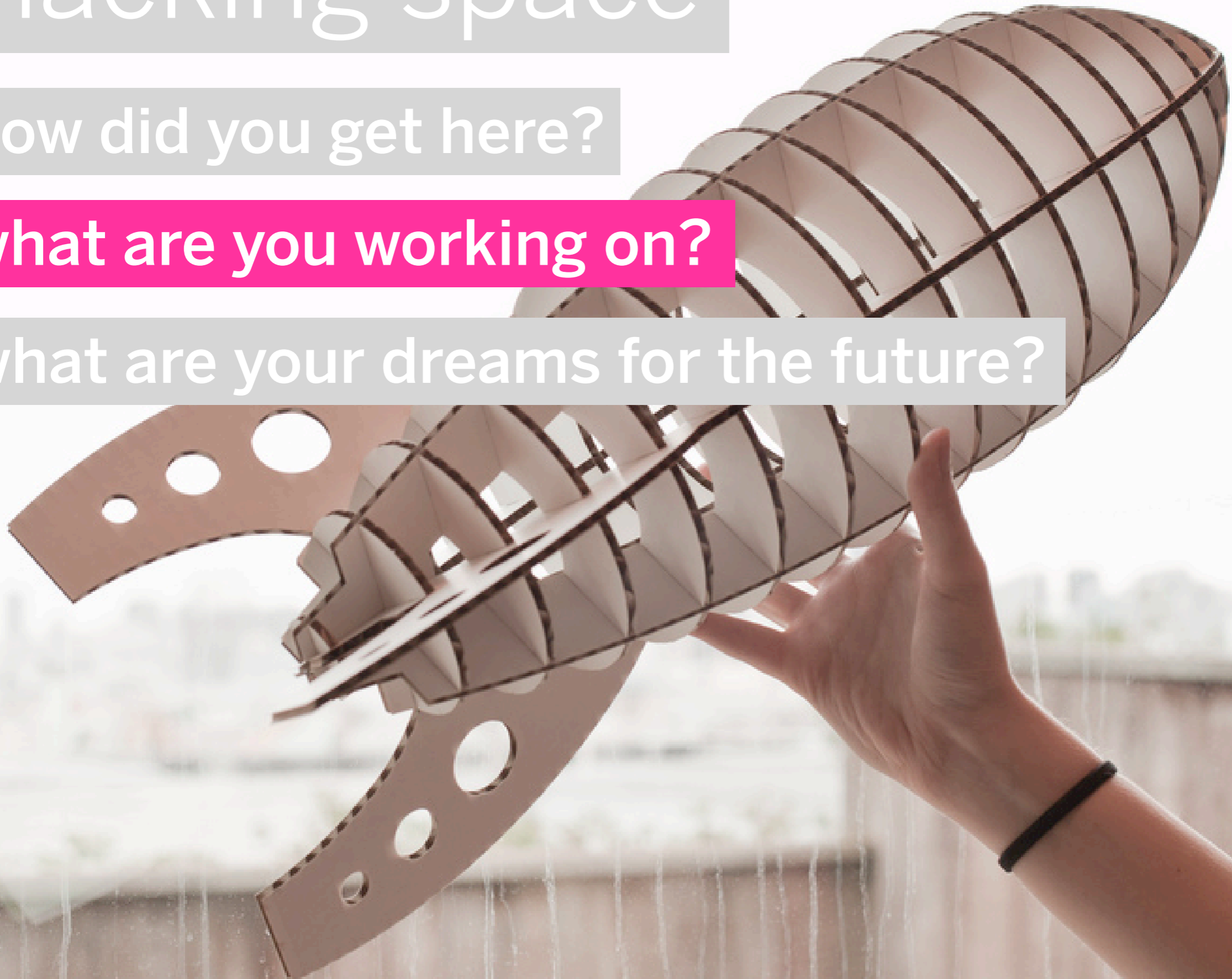


hacking space

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home	competition	data analysis	education	event	open source
------	-------------	---------------	-----------	-------	-------------

Lunabotics Mining Competition



Advances in lunar regolith mining have the potential to significantly contribute to NASA space exploration operations. The Lunabotics Mining Competition uses excavation, a necessary first step towards extracting resources from the regolith and building bases on the Moon. The teams that can use telerobotic or [...]

[Share your thoughts on this project »](#)

setiQuest



setiQuest is a community involvement led by the SETI (Search for Extraterrestrial Intelligence) Institute that aims to lead to a significant improvement in the ability to search for other intelligent civilizations in the cosmos. You can participate as a software developer or creative data parser. [...]

[Share your thoughts on this project »](#)

Yuri's Night



Whether in someone's living room, a swinging nightclub or a world-class science museum, Yuri's Night events all have one thing in common – people who are excited about space exploration and who want to join together to celebrate it. The public is encouraged to create their own Yuri's Night event! [...]

[Share your thoughts on this project »](#)

Citizen Sky



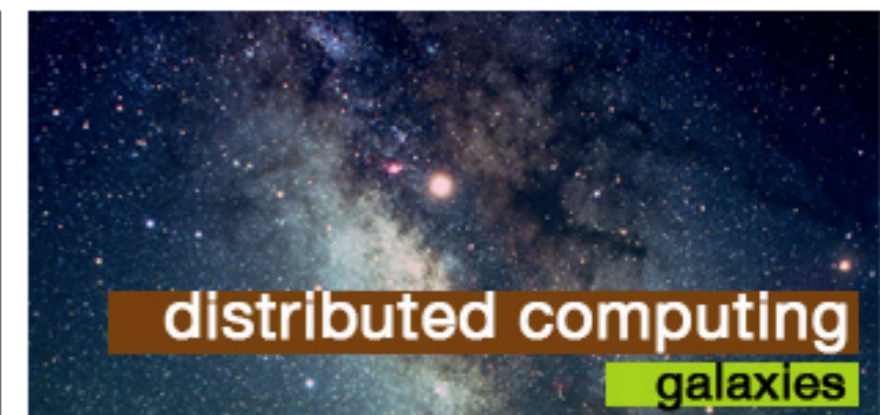
Epsilon Aurigae is a supergiant star located 2,000 light years from Earth that mysteriously gets eclipsed every

Moon Zoo



A citizen science project around classifying high resolution images of craters and various parts of the lunar surface

MilkyWay@Home



MilkyWay@home is a distributed computing project, harnessing the power of volunteered computers to create

home	competition	data analysis	education	event	open source
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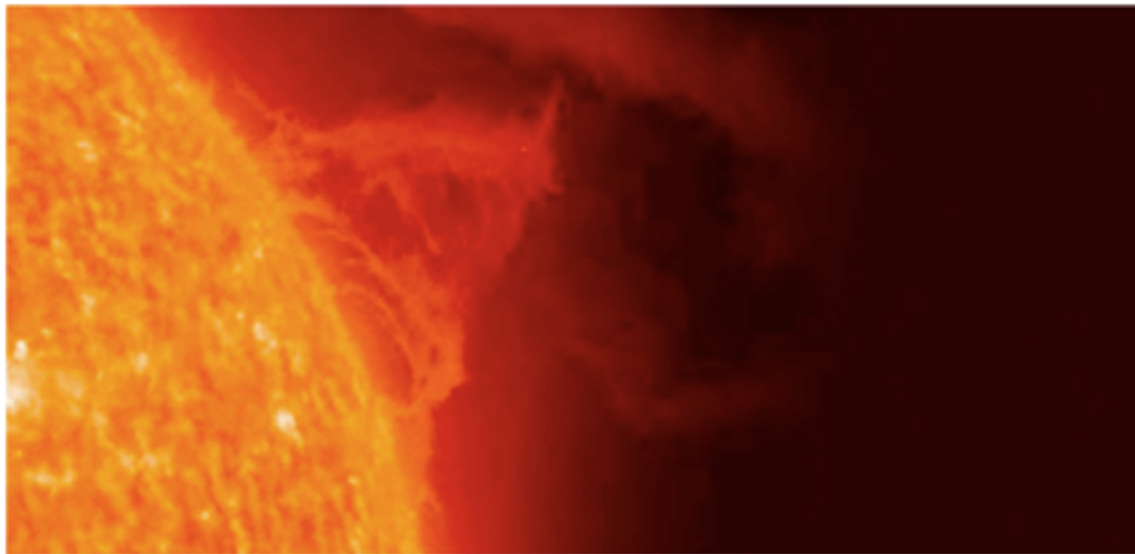


Photo by NASA

Learn how to spot solar explosions and track them across space to Earth. Your work could make a new scientific discovery as well as give astronauts an early warning if dangerous radiation is headed their way. You'll also find out how to pinpoint comets, particle strikes and optical effects, and how to make detailed storm measurements.

Even on a quiet day, the Sun's a whirling ball of energy – intense magnetic fields churn and pummel its atmosphere. But sometimes, huge solar explosions hurl billions of tons of material across the solar system and out into space. Scientists call them coronal mass ejections, or CMEs for short. We call them solar storms – and scientists need your help to discover how they begin and evolve, as well as forecast their arrival time at Earth.

Solar storms on a collision course with Earth are harmful to astronauts in orbit and have the potential to knock out communication satellites, disrupt mobile phone networks and damage power lines. On the plus side, they also spark the beautiful atmospheric reactions better known as the northern and southern lights, or aurora.

Solar Stormwatch

To learn more and participate, visit: <http://solarstormwatch.com>

To stay up-to-date on this project:

- follow [@solarstormwatch](#)
- read blogs.zooniverse.org/solarstormwatch
- join forum.solarstormwatch.com
- look at flickr.com/photos/solarstormwatch

Discuss

Subscribe to comments

share your thoughts...



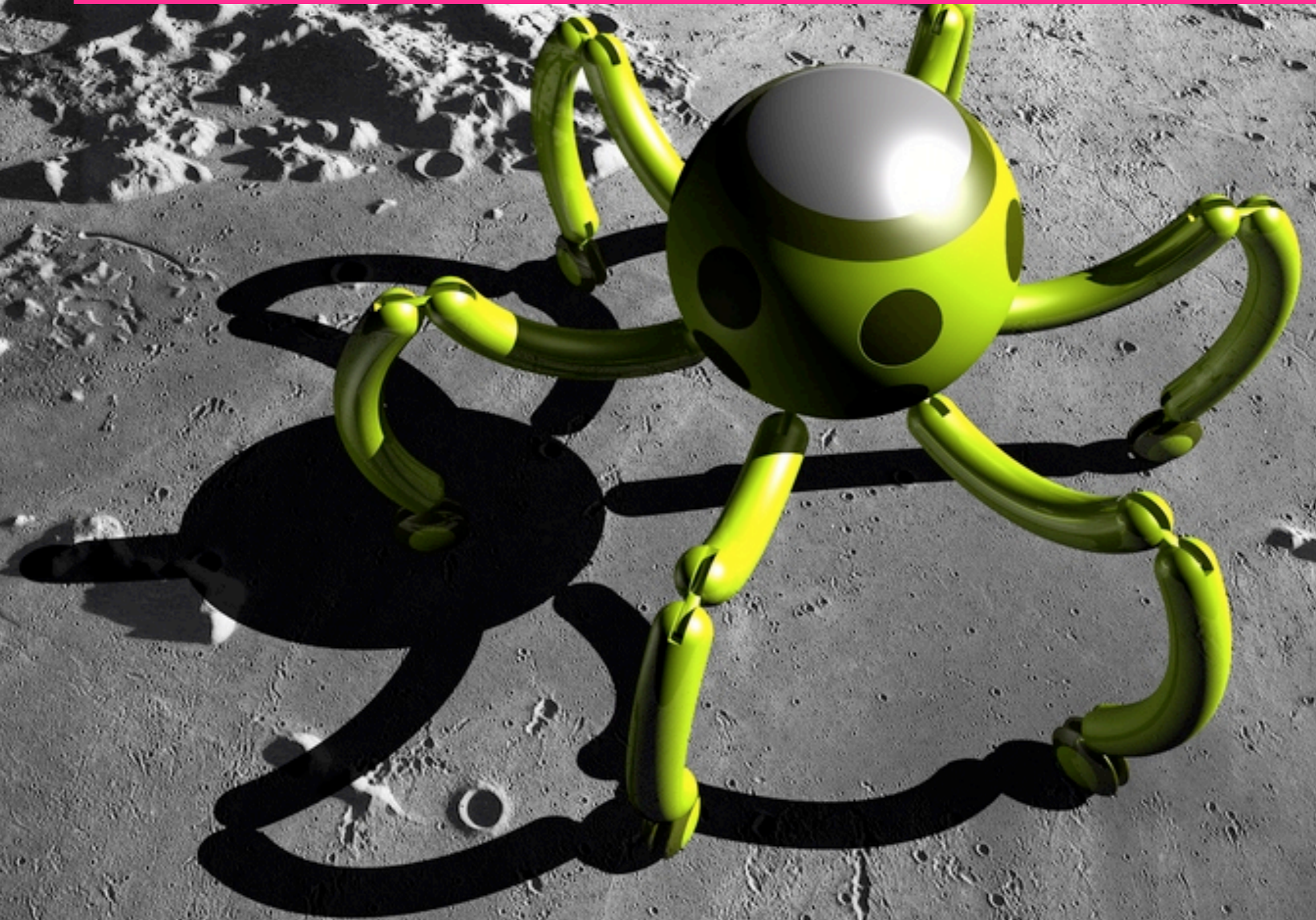
Name (required)

Email (will not be published, required)

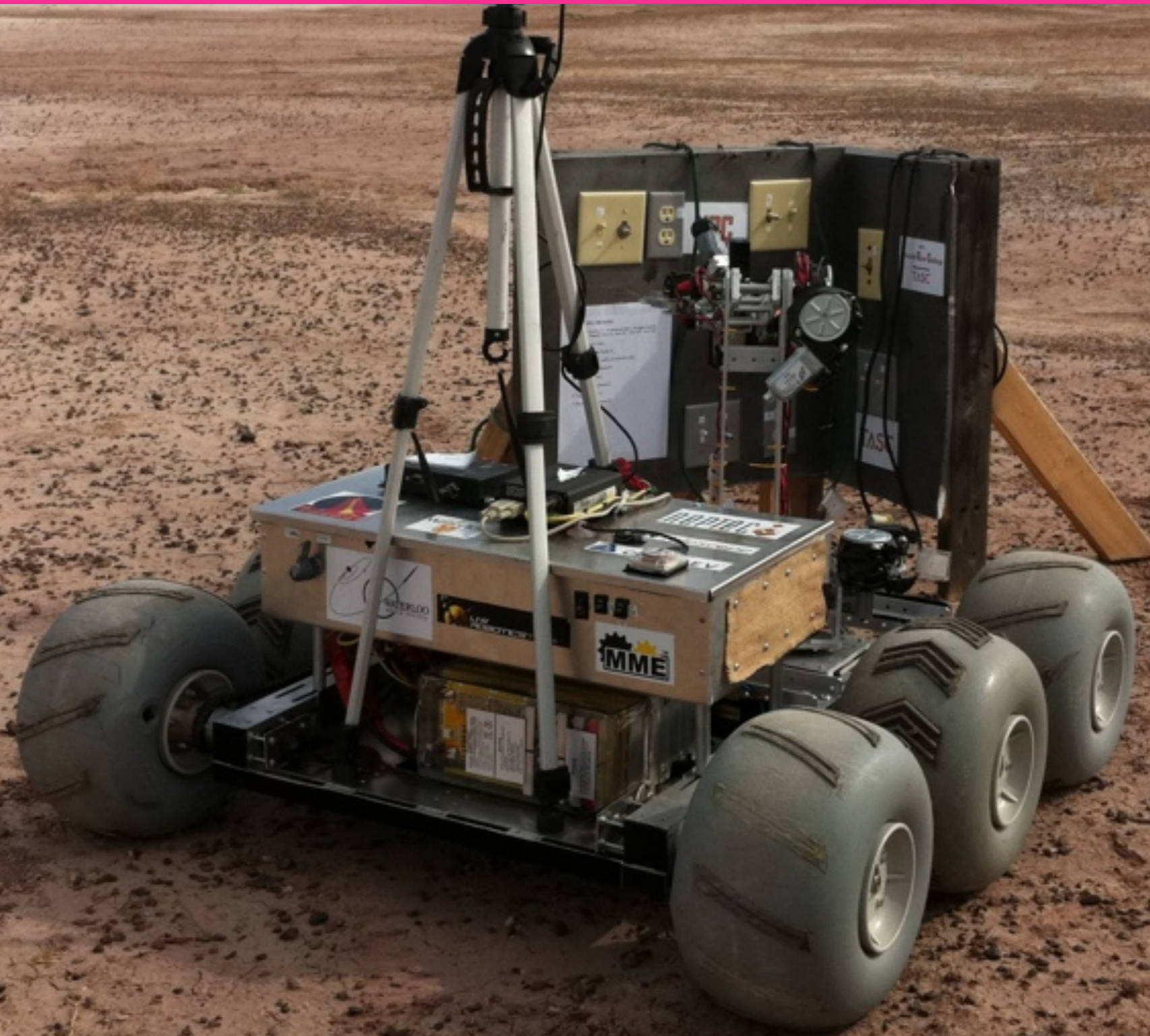
Website

Click the "Preview" button to preview your comment here.

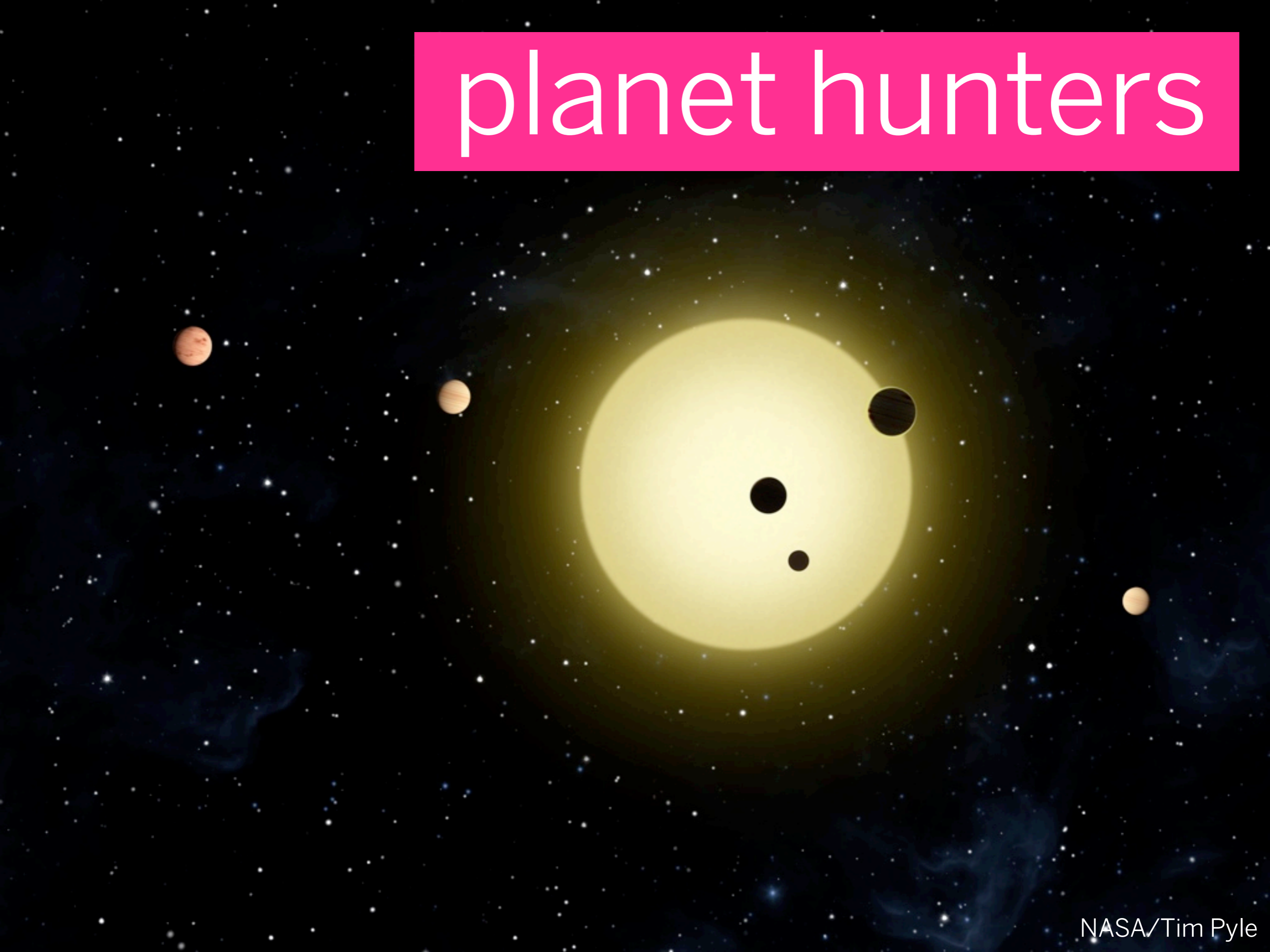
google lunar x prize



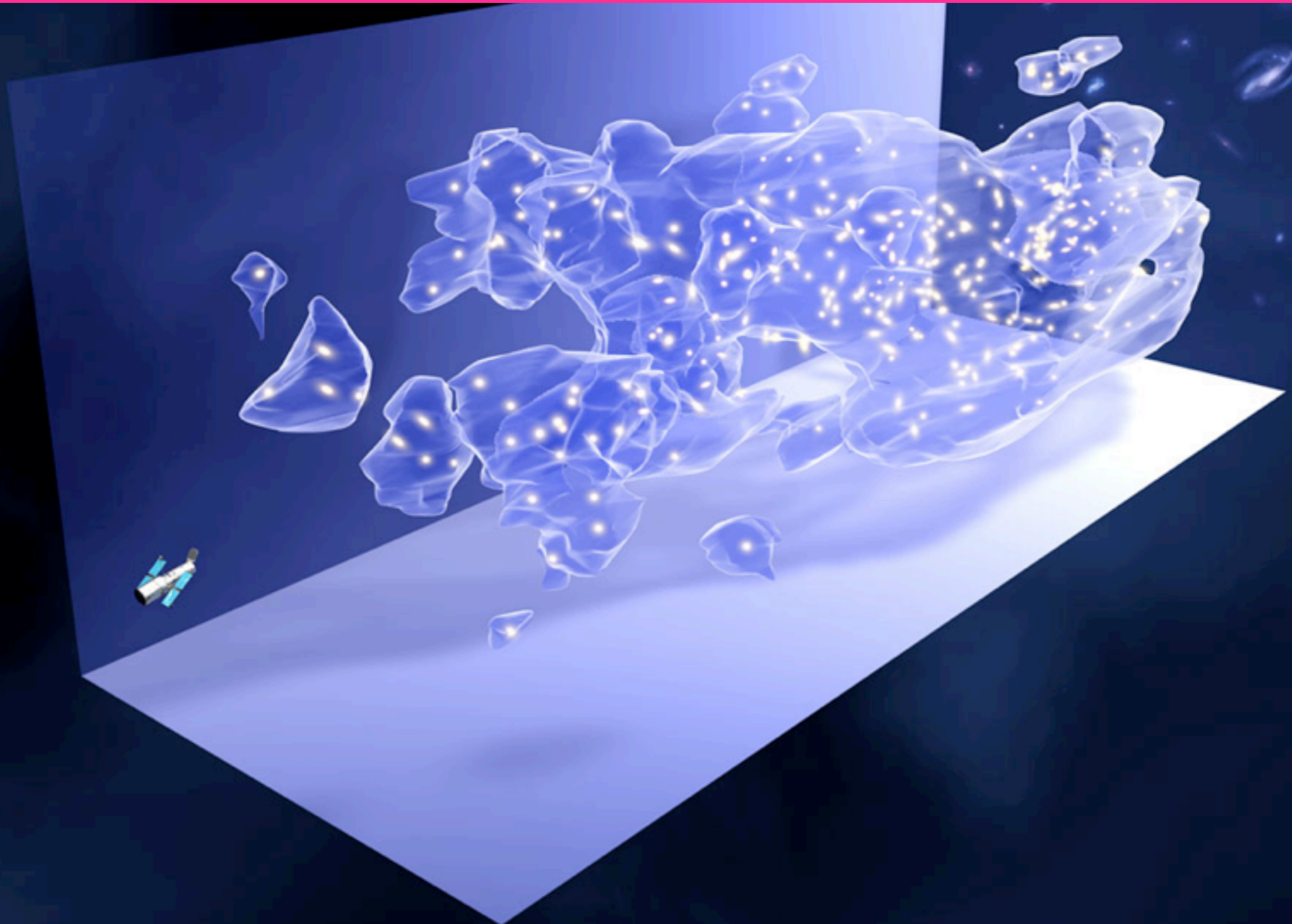
university rover challenge



planet hunters



mapping dark matter



sdss.org data

Classify galaxies

Answer the question below using the buttons provided.

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



Smooth

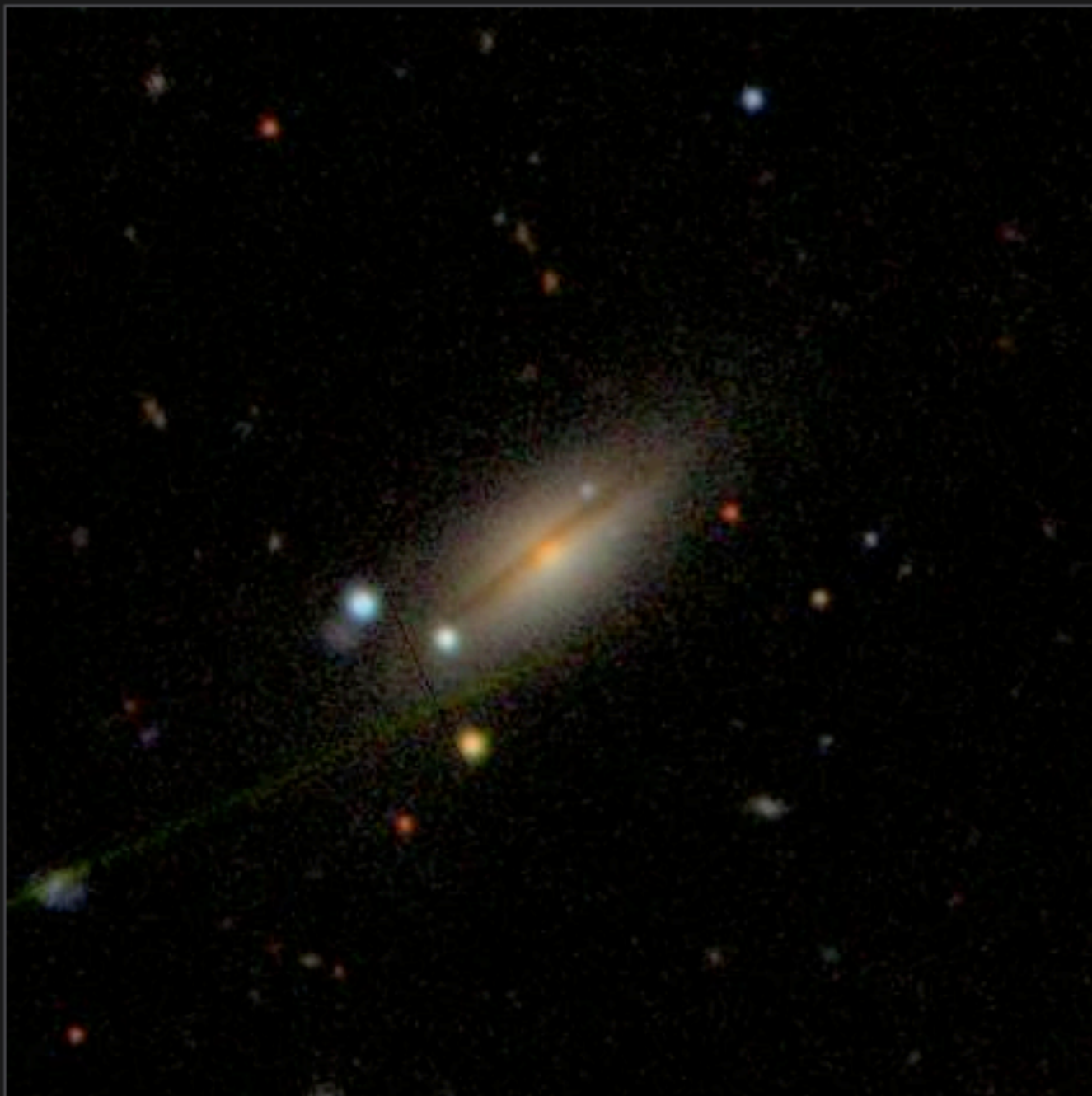


Features or disk



Star or artifact

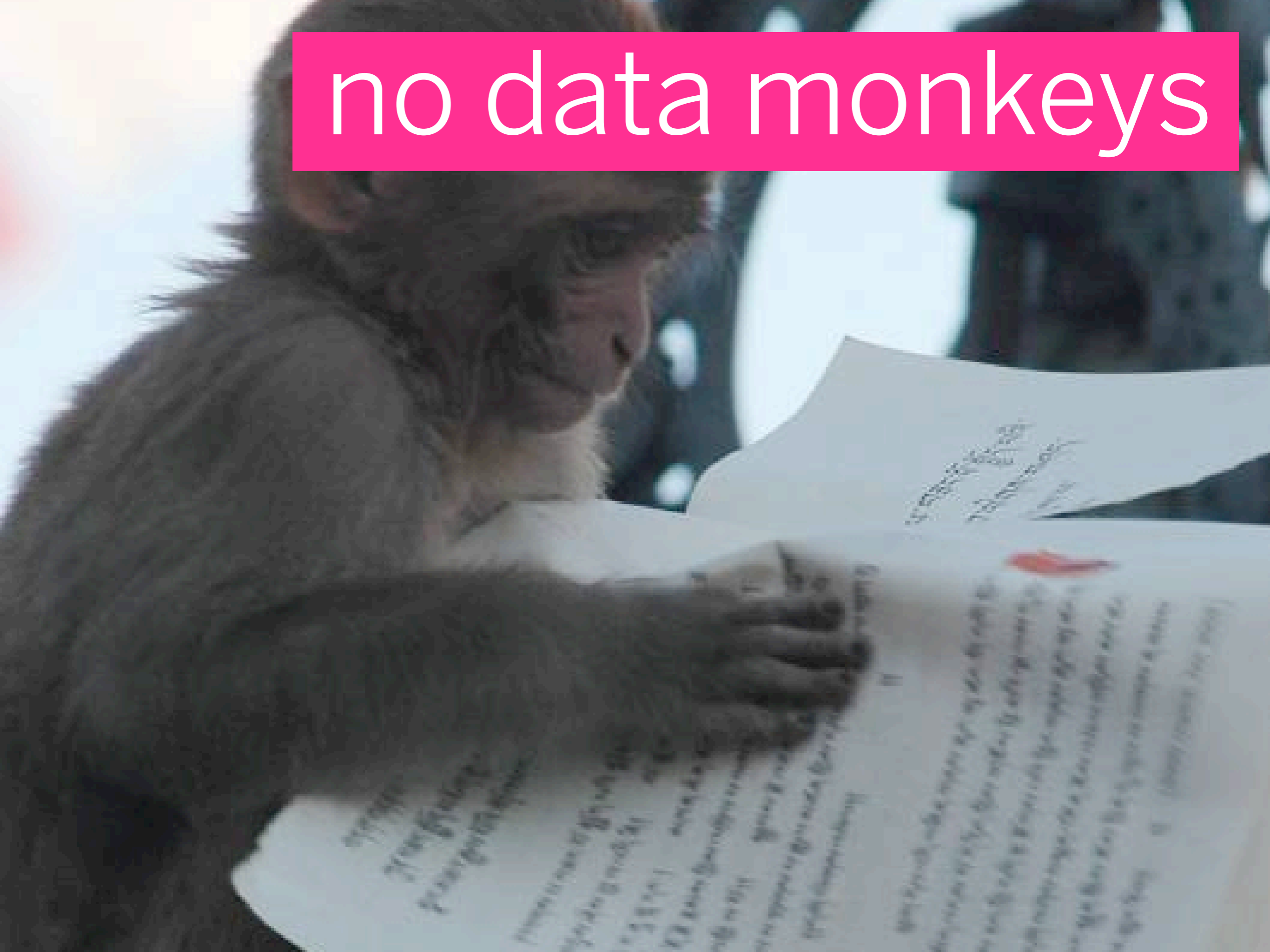
[Need help?](#) ?



+ Invert galaxy image

+ Add to my favourites

no data monkeys



green peas



data access inspires investigation



forums as a collaboration tool



better machine learning

unprocessed interstellar stuff

1950s: 937 photo plates, 1k galaxies (Palomar)

1980s: film (Palomar Sky Survey II)

2000s: 1 million galaxies (Sloan Digital Sky Survey)


2010: 480 million images of the Moon (LRO)

modes of invading space

 OPEN COLLABORATION

 DISRUPTIVE ACCESSIBILITY

 ACTIVE CONTRIBUTION

 OPEN \neq ACCESSIBLE



open != accessible

zenith

р44
ПРИЧНЛ СНЦ ЛСК ГСО 2
Б1 ВРАЩЕН ОХ 0,035
ДУС1 1 РЕЖ ОУ 0,000
Р 172,9 ВСВ ОЗ -0,017
СО.01050 КУРС 1
γ 0,00
ψ -26,22
θ 1,29
ψ~ 21,85
θ~ 17,60
р 0,516
ρ -488,97
РУД РУО
р 0,120КН ΩУ 0,038 0,037
р 0,22Н/С ΩZ 0,008 0,008

science hack day



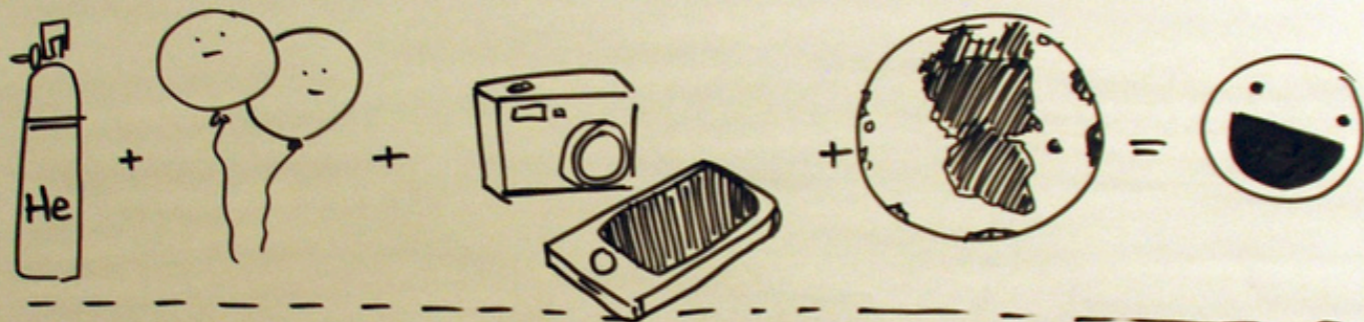
science hack day



open collaboration

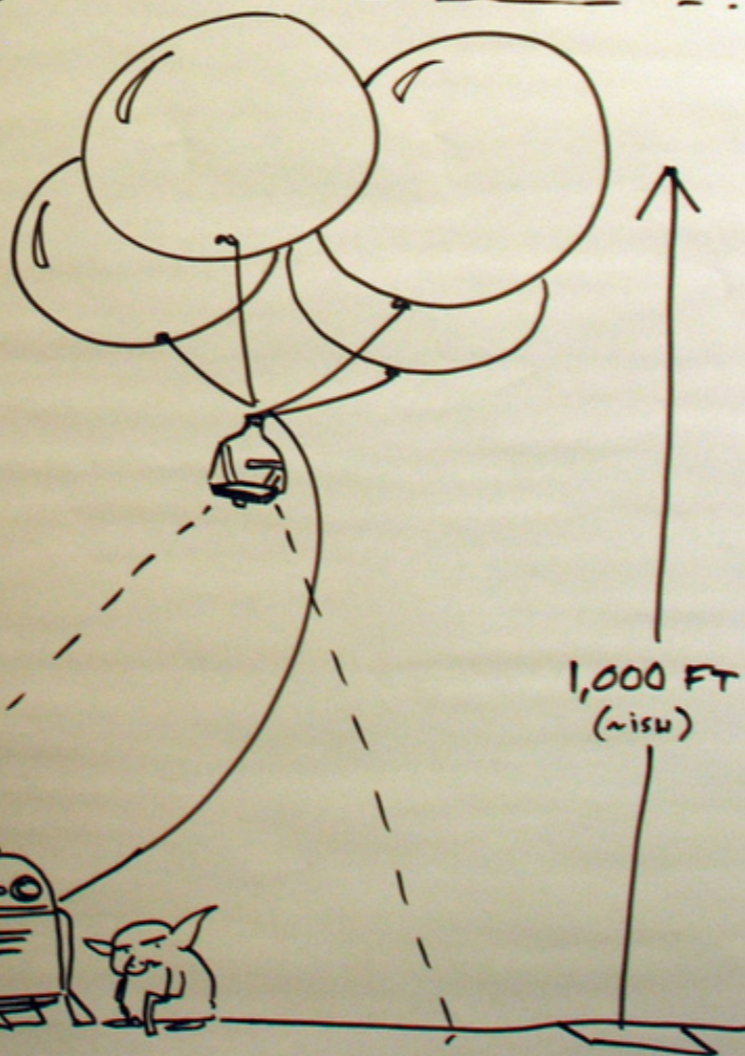


GRASSROOTS AERIAL MAPPING:



HOW TO:

1. FLY HELIUM BALLOONS INTO THE AIR.
2. REMEMBER TO ATTACH YOUR CAMERA/iPHONE
3. TAKE LOTS OF PICTURES
4. CREATE LAND CLAIM SO DARK LORD VADER WILL NOT EXPLODE YOUR PLANET.*
5. UPLOAD LAND CLAIM TO INTERNET.



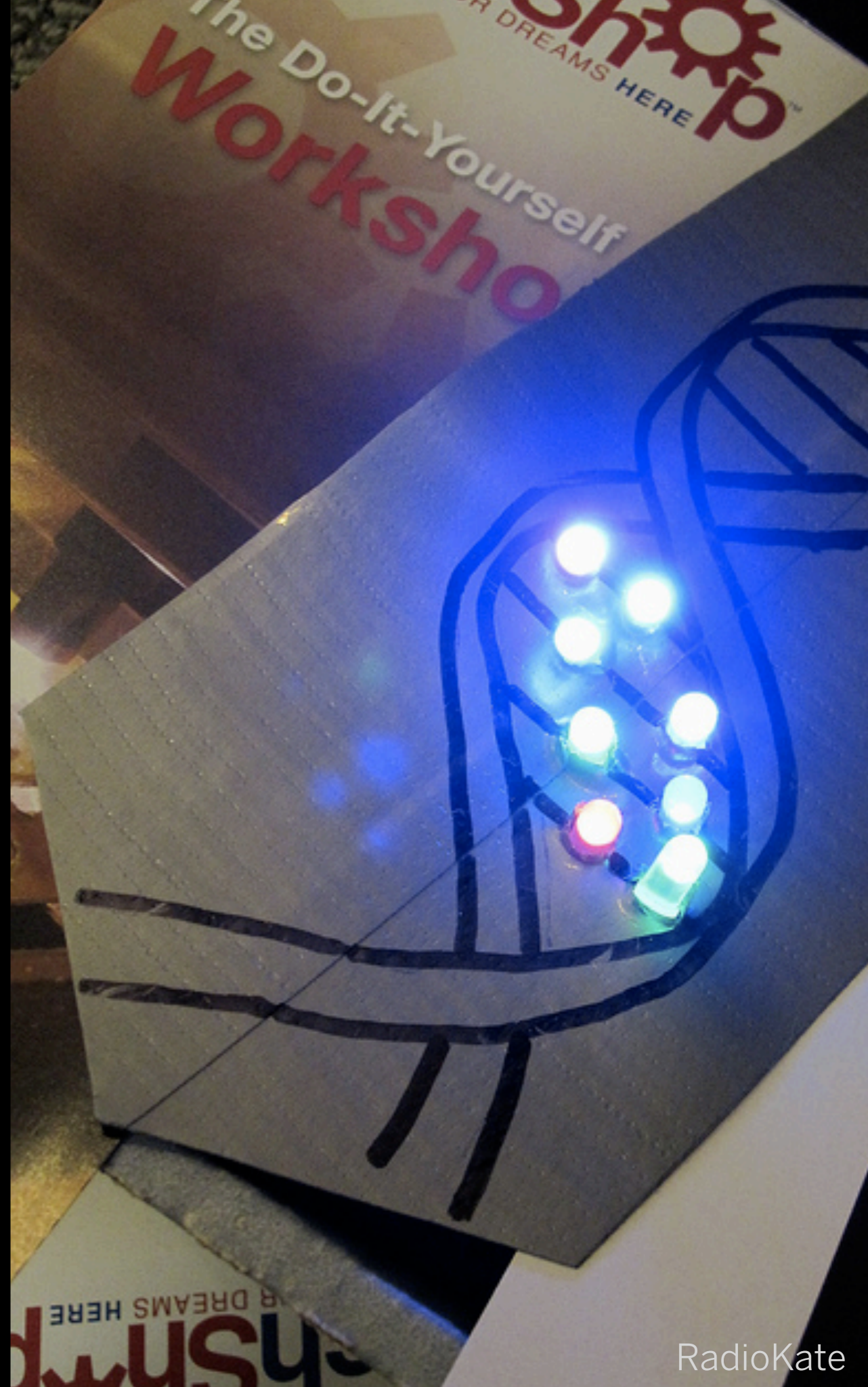
Ariel Waldman



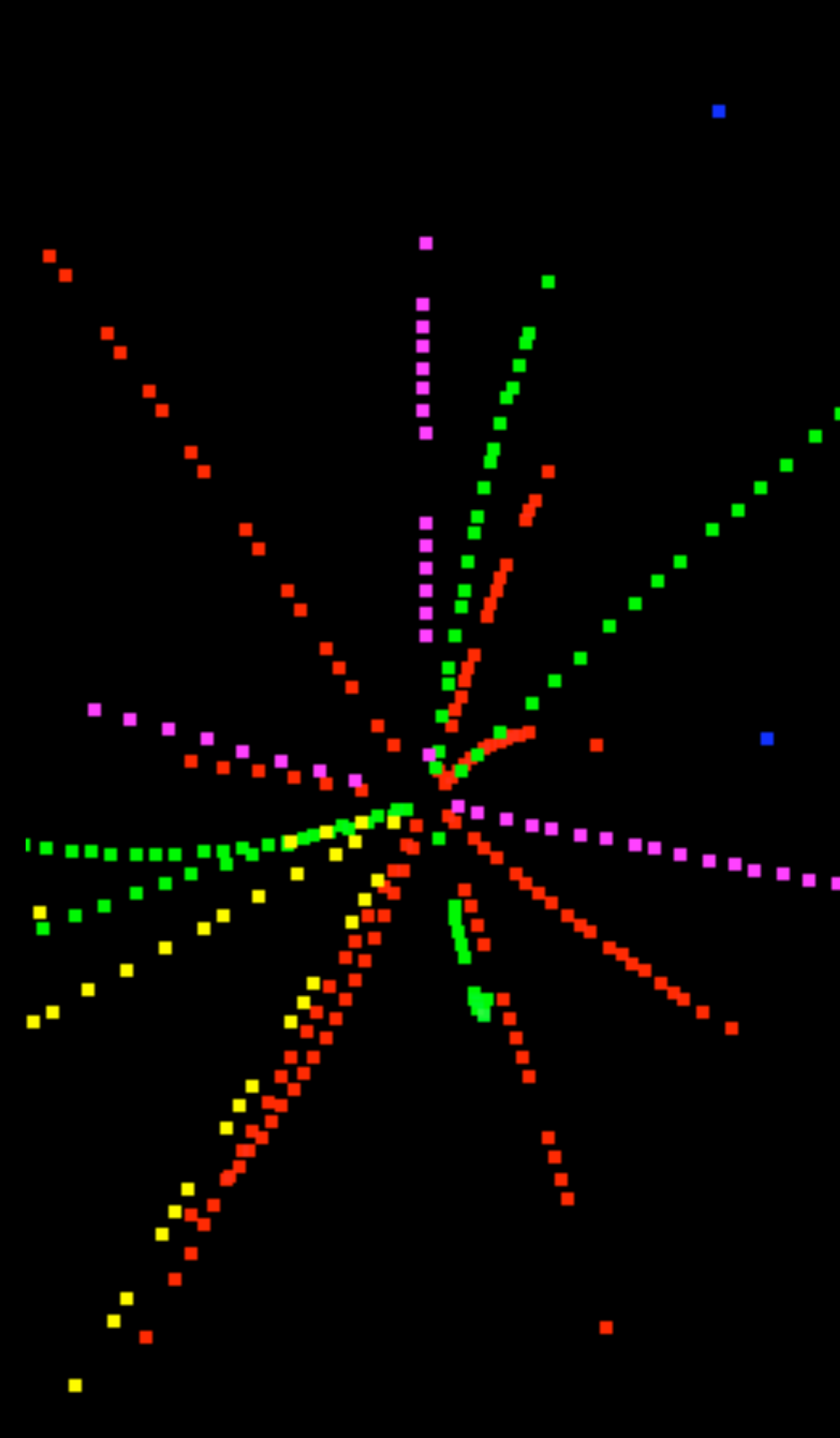
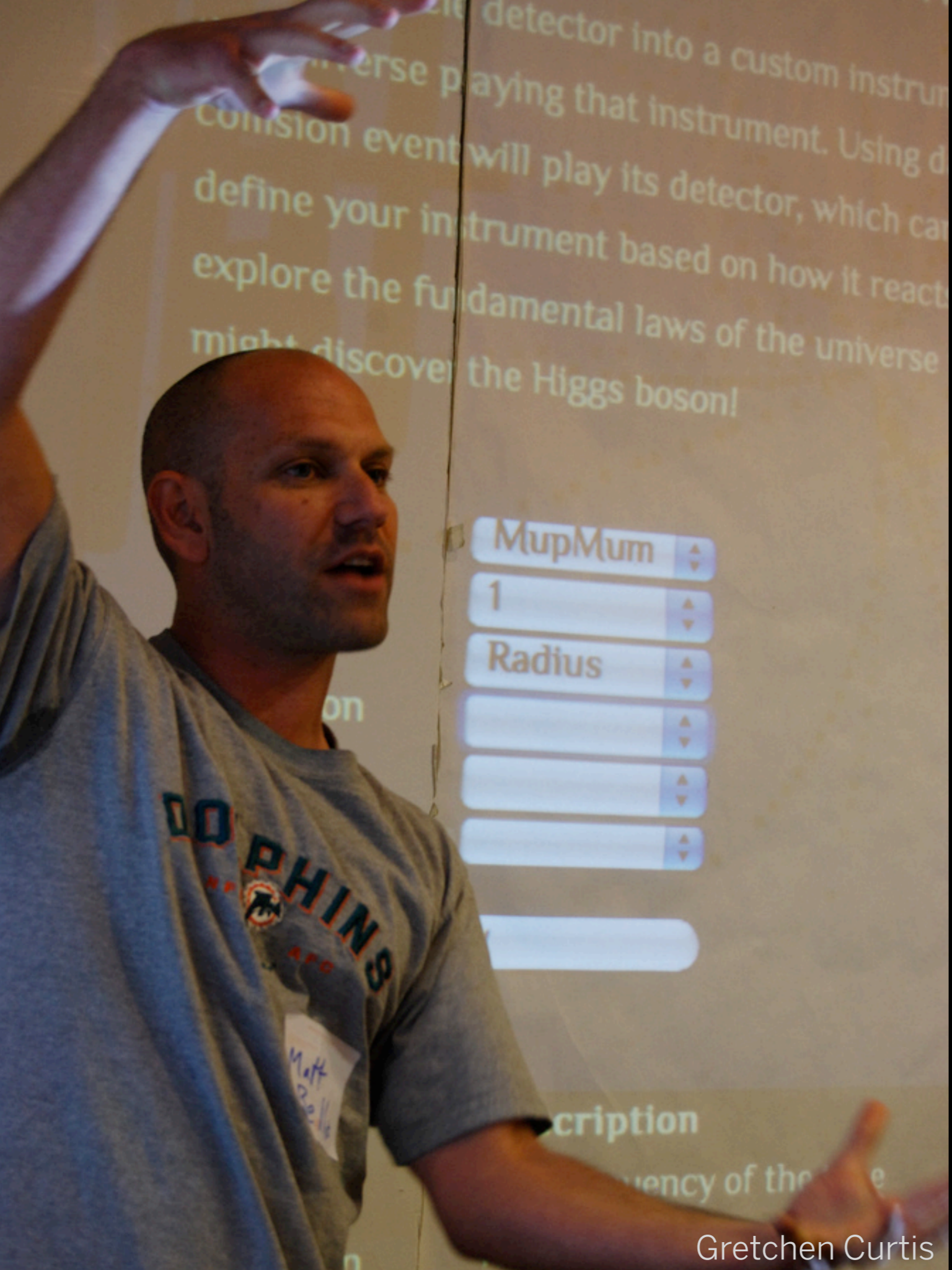
Paul Mison



Ariel Waldman



RadioKate



Gretchen Curtis

SCIENCE Hack Day



Get excited and make things ...with science!

details at:

sf.sciencehackday.com

hacking space

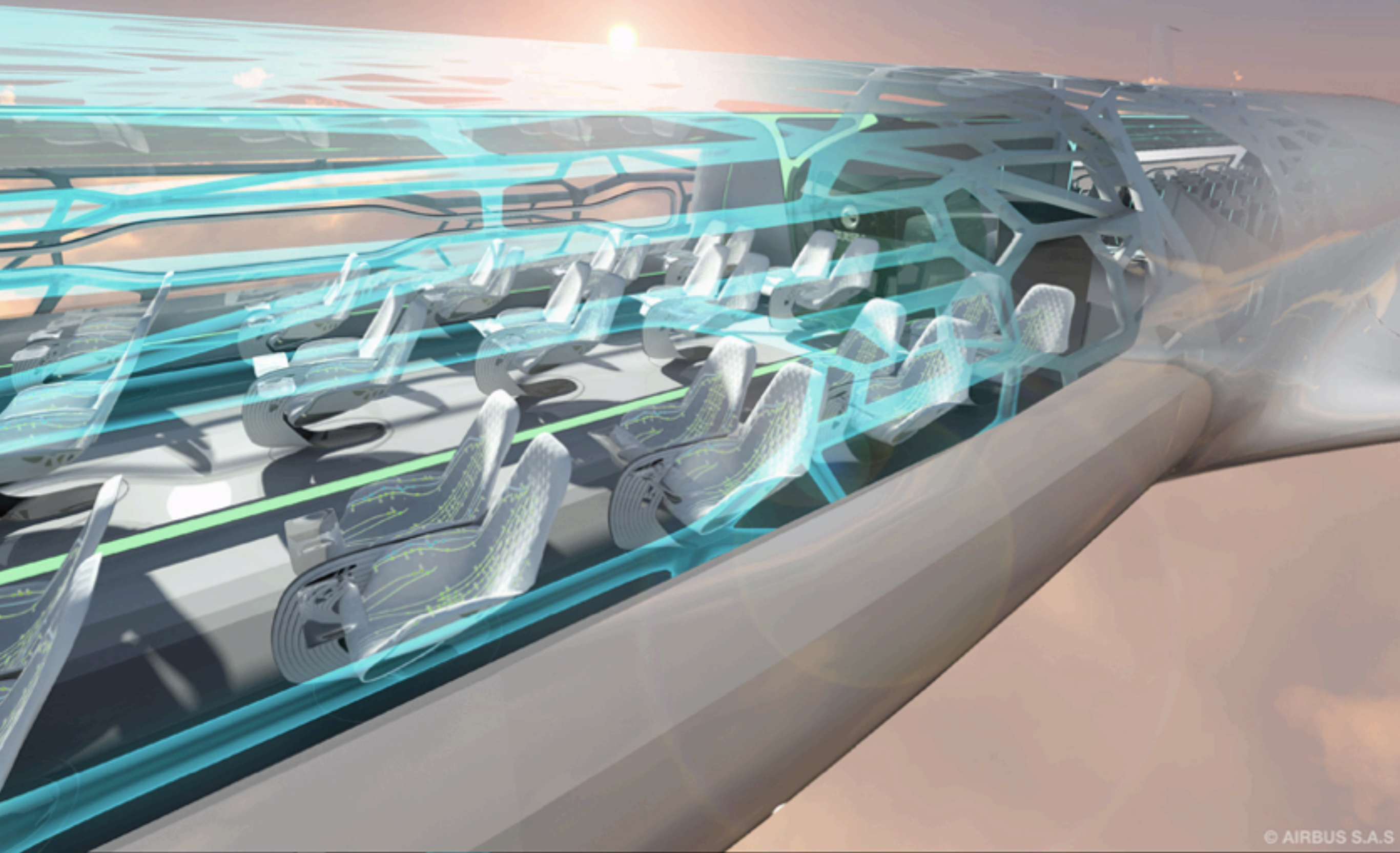
how did you get here?

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what are your dreams for the future?



institute for the future



What will you do when space is as cheap and accessible as the Web is today?

THIS CARD HAS BEEN MARKED SUPER-INTERESTING BY A LAB GUIDE.

Cubesats create massive citizen engagement in scientific inquiry, inspire truly global thinking & foment a renaissance in cultural progress.

*about 26 weeks 6 days ago; this card has earned 20 idea points
1st level card by [ubik](#); view the [chain reaction](#)*

 EMBED

Positive Imagination



Super Shiny Space Leggings

VIEW ALL
STEPS ON
ONE PAGE

intro



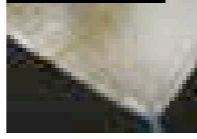
step 1



step 2



step 3



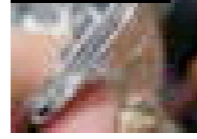
step 4



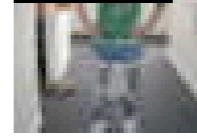
step 5



step 6



step 7





they led to us

**this was
supposed to be
the future**

where is my jetpack,

what is my mobile computer,
what is my phone in my hand,
what is my laptop? what is my laptop,
what is my mobile phone in my hand,
what is my car for the future

f***ing teddy bears in space





**GET
EXCITED**

**AND
MAKE** [^]

THINGS

*DISRUPTIVELY
ACCESSIBLE*

[@arielwaldman](https://twitter.com/arielwaldman)

arielwaldman.com

spacehack.org

