

"I hope the future generations will realize that we have not only the scientists and engineers capable of shaping the destiny of our age, but artists worthy to keep them company."

- Lester Cooke National Gallery of Art

NASA ART PROGRAM

https://www.dailyartmagazine.com/nasa-art-program/



NASA HQ | Centers and Facilities

<u>ENGINEERS</u>

SCIENTISTS

PUBLIC ENGAGEMENT

EDUCATION & OUTREACH

OTHER NASA SPECIALISTS

SOFTWARE ENGINEERS; AR / VR / UX; FACILITIES; ADMIN; WRITERS ETC.

NEWS & MEDIA

INTERNAL COMM | EXTERNAL COMM

SCHOOLS & UNIVERSITIES

EDUCATION; PARTNERSHIPS; INTERNSHIPS;

GENERAL PUBLIC

EDUCATION; INSPIRATION; TRANSPARENCY OF DATA and RESEARCH



NASA HQ Centers and Facilities ENGINEERS SCIENTISTS ART PUBLIC ENGAGEMENT OTHER NASA SPECIALISTS ART **EDUCATION & OUTREACH** NEWS & MEDIA **SCHOOLS & UNIVERSITIES EDUCATION**; PARTNERSHIPS; INTERNSHIPS; ART



DATA
RESEARCH
FACTS
SCIENCE
ENGINEERING
VISION



Universal language that can communicate complexity to all at once with clarity and leave room for interpretation and imagination.

- PHD LEVEL PROFESSIONAL
- PROFESSIONAL
- EDUCATOR
- NOVICE / AMATUER
- STUDENT
- LOCAL
- FOREIGN
- ADULT
- TEEN
- CHILD



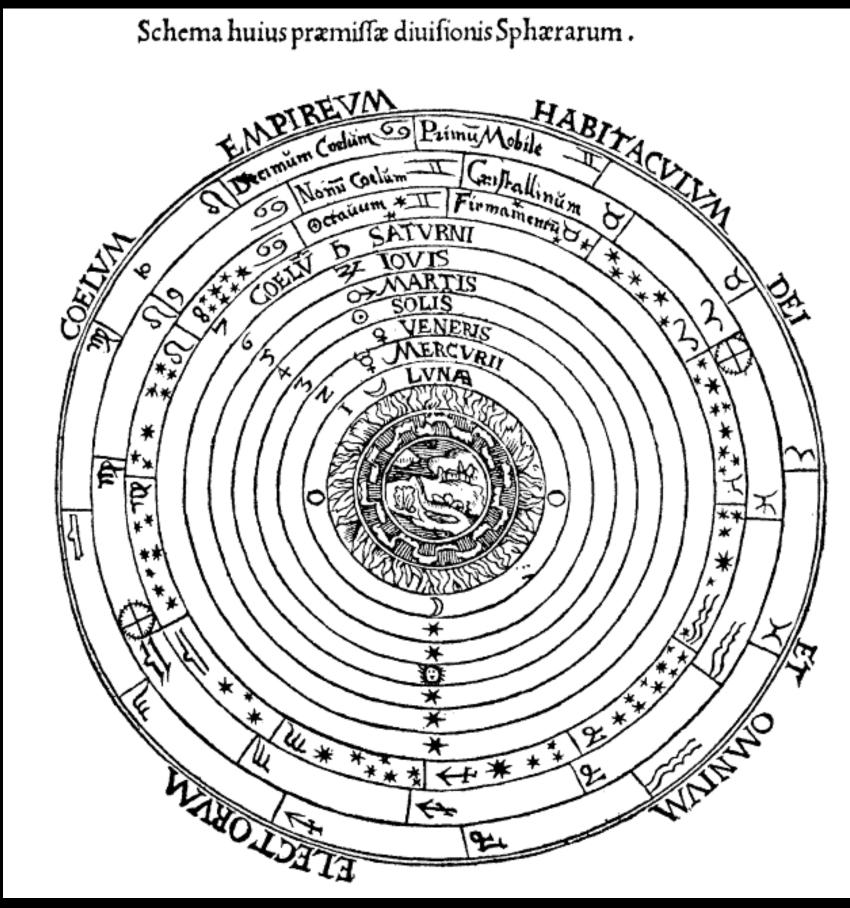
COMMUNICATION

- Visual Strategists (Artists/ Designers)
- News Team
- Social Media
- Writers
- Photographers
- Film and Video I Documentarians
- Education Specialists
- Outreach and Public Engagement
- Web Developers
- VR/AR Developers
- Printing Specialists
- Archives
- Historians

NASA I JPL I 18x

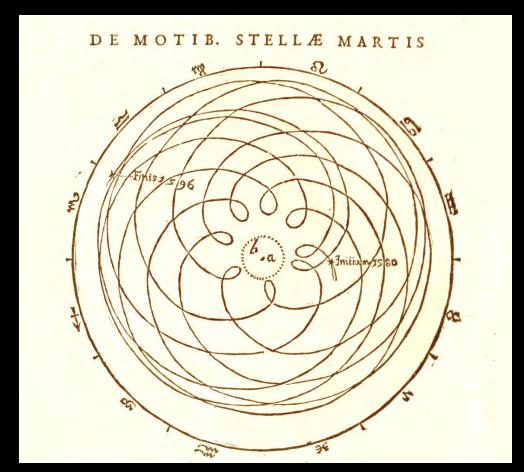


Aristotle (300 BC)



(1500's) Artist Peter Apian
Source: https://en.wikipedia.org/wiki/Aristotelian physics

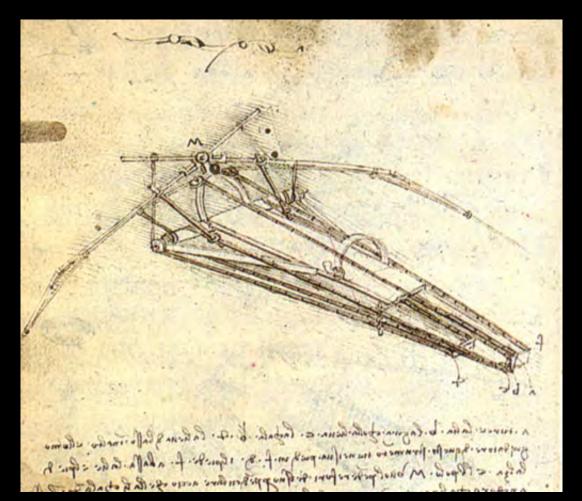
Johannes Kepler (1600's)



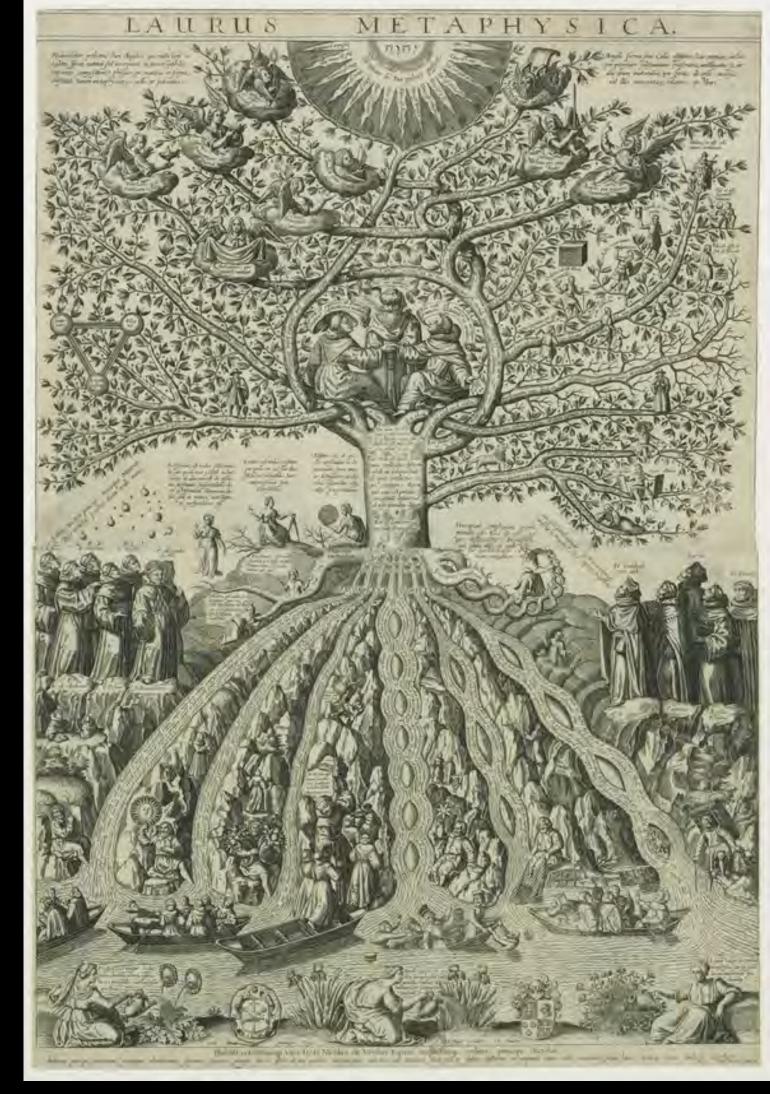
https://en.wikipedia.org/wiki/Johannes_Kepler

Leonardo da Vinci

(1500's)



https://en.wikipedia.org/wiki/Leonardo_da_Vinci



(1616) Engraver Léonard Gaultier

Source: https://en.wikipedia.org/wiki/Aristotelian_physics



Maria Sibylla Merian (1700's)

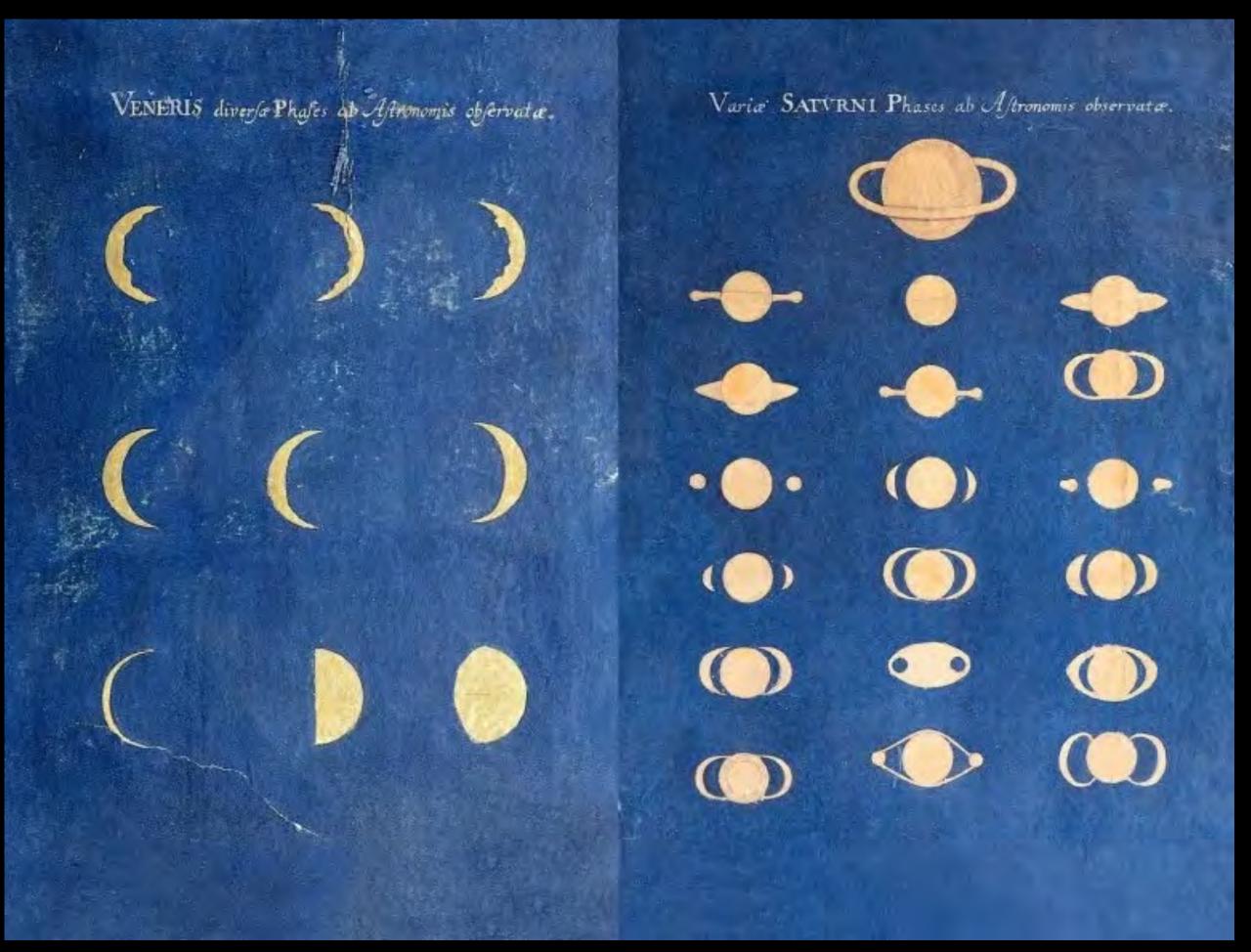
Naturalist and scientific plants and insect illustrator.



https://en.wikipedia.org/wiki/Maria_Sibylla_Merian

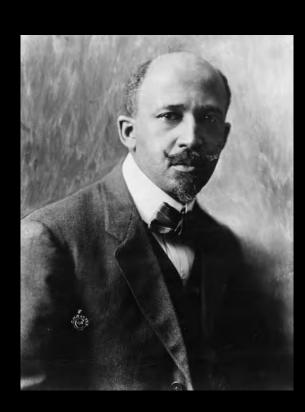
Maria Clara Eimmart (1700's)

Artist, engraver and astronomer.



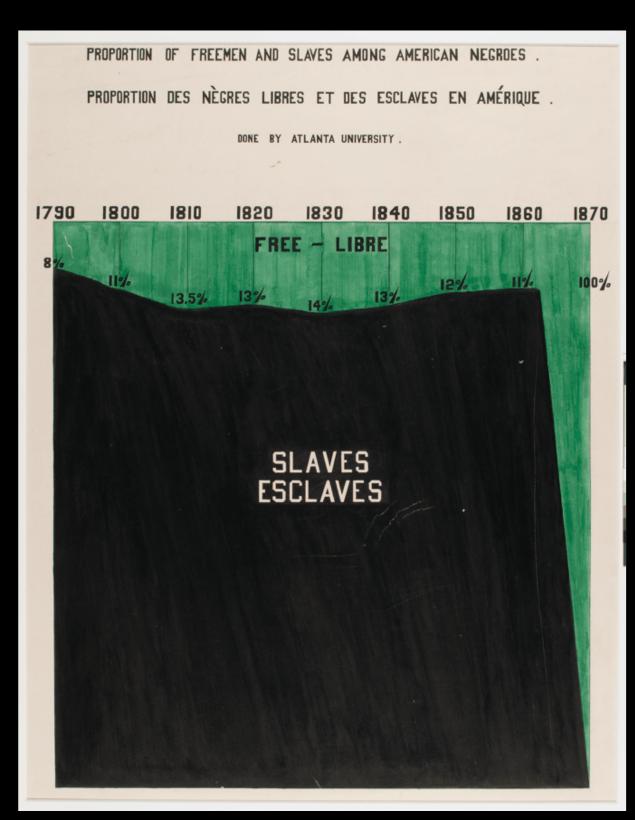
https://www.brainpickings.org/2019/01/06/maria-clara-eimmart/

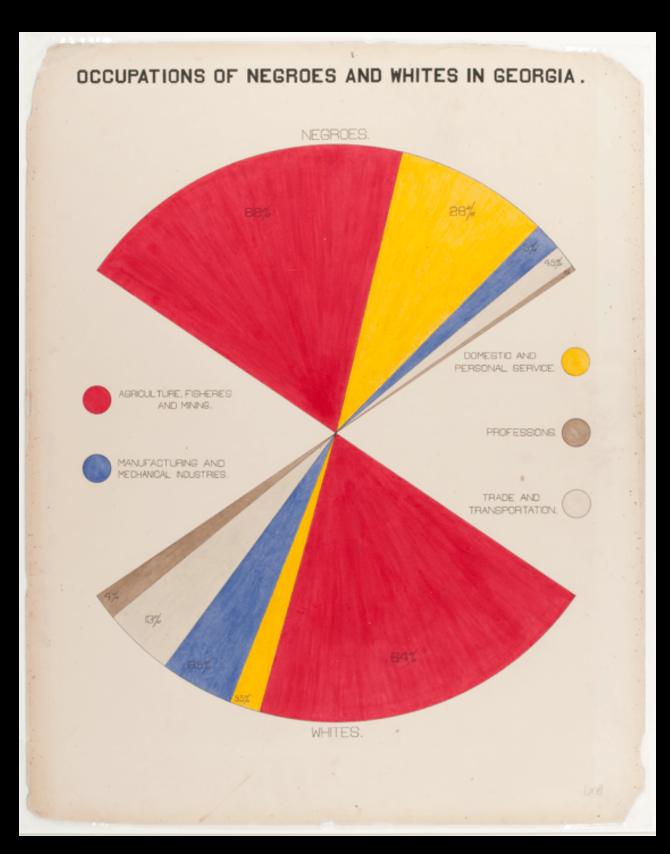




W. E. B. Du Boise (1899)

African American Professor of history, sociology and economics; Pioneered a team of black sociologists who created 63 data visualizations, statistical charts, illustrating the condition of the descendants of former African slaves in residence in the USA.





CITY AND RURAL POPULATION. 1890. DESTRUM 5.000 TO 10.000

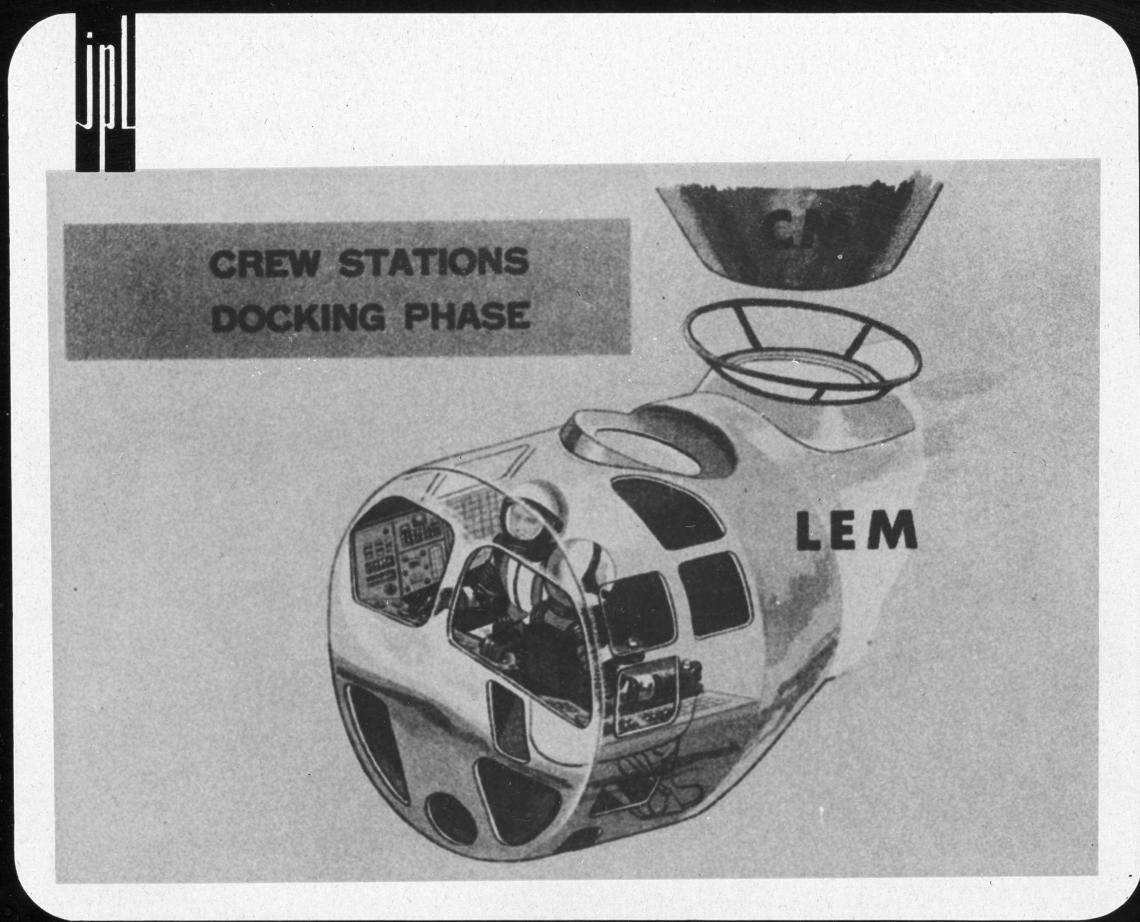
https://en.wikipedia.org/wiki/W._E._B._Du_Bois











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Image courtesy JPL photo archives.



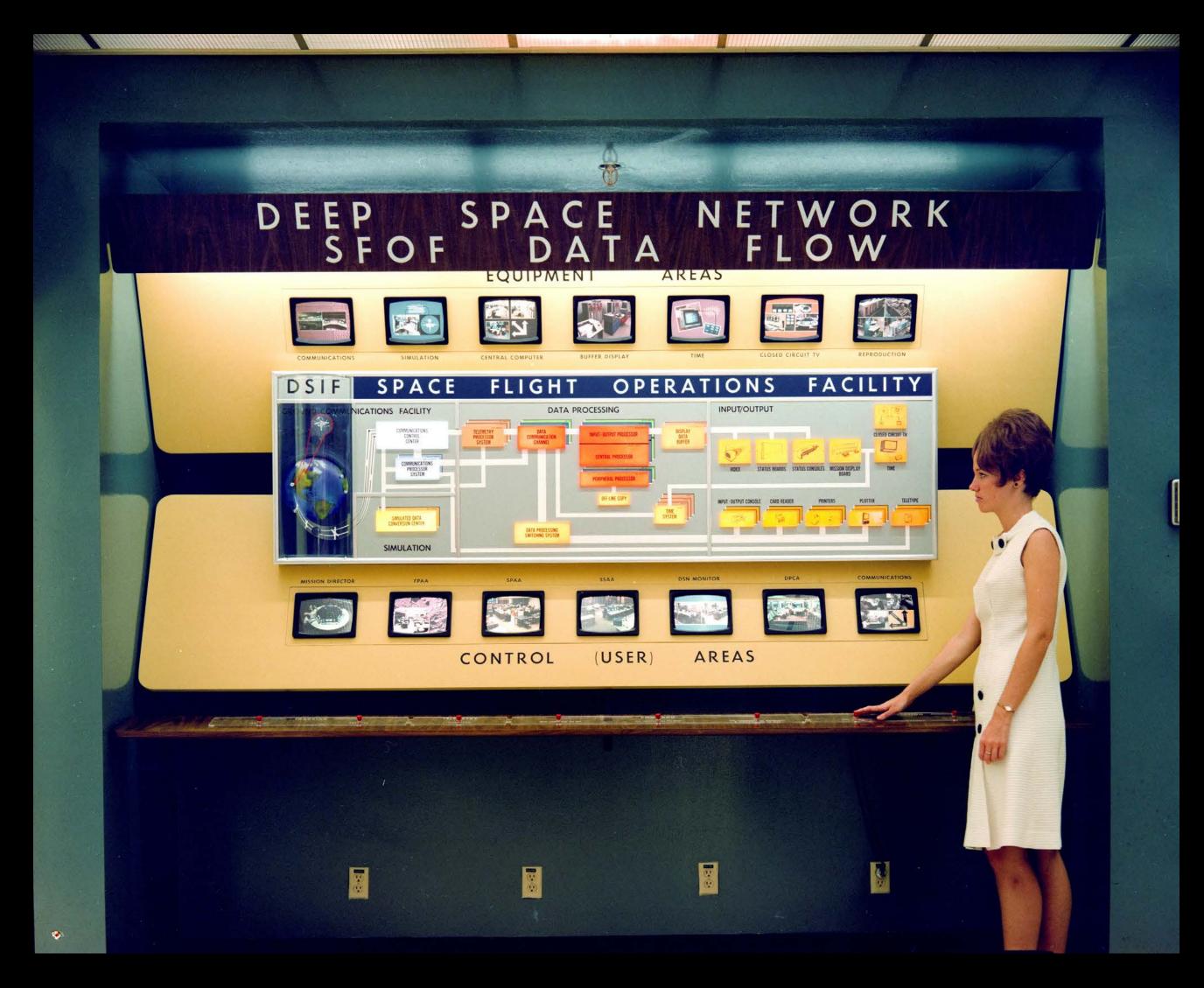
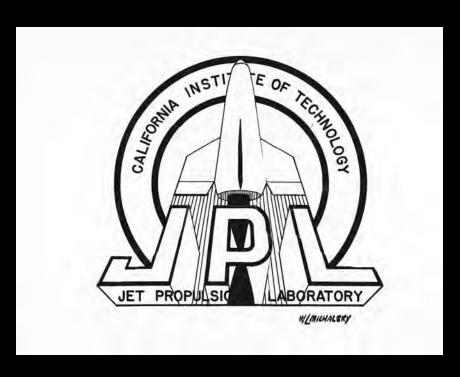
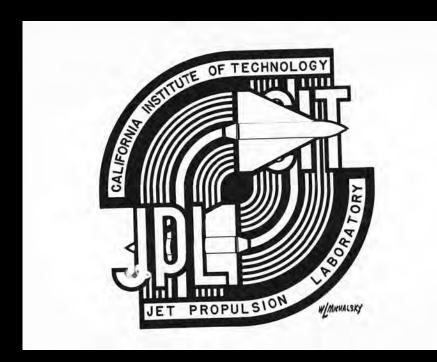


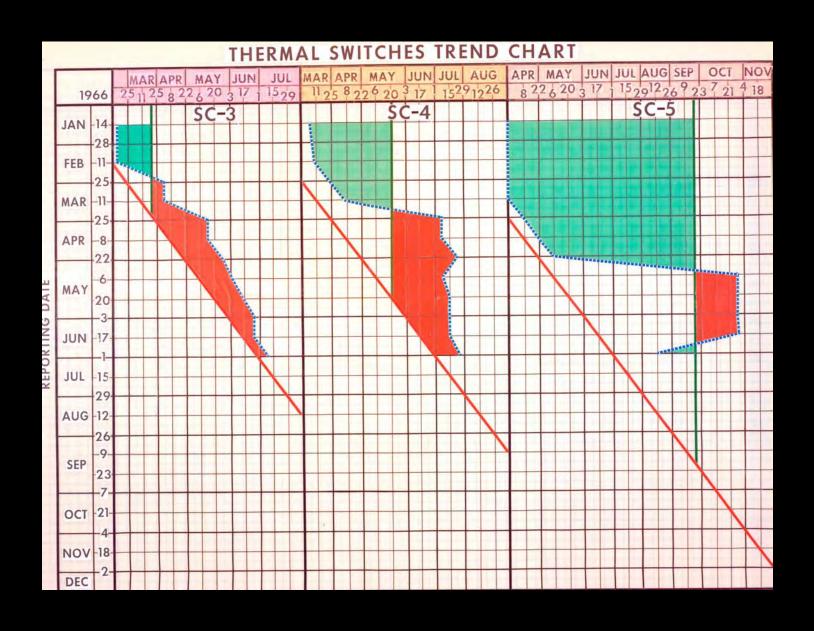


Image courtesy JPL photo archives.















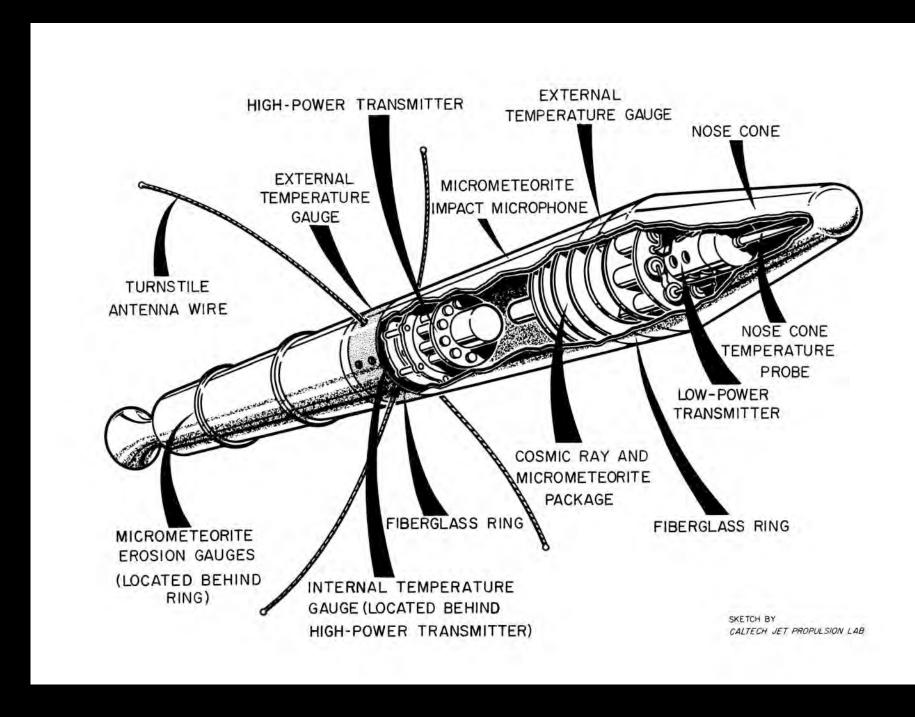


ART BEEMAN

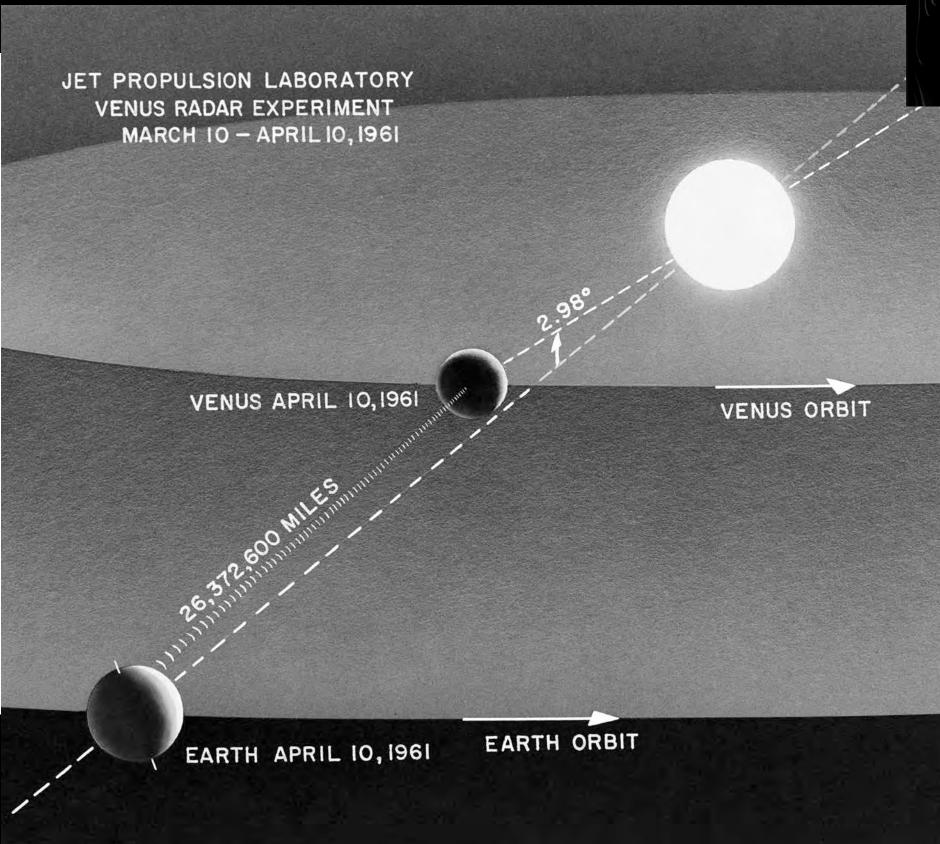
JPL I FIRST ART DIRECTOR

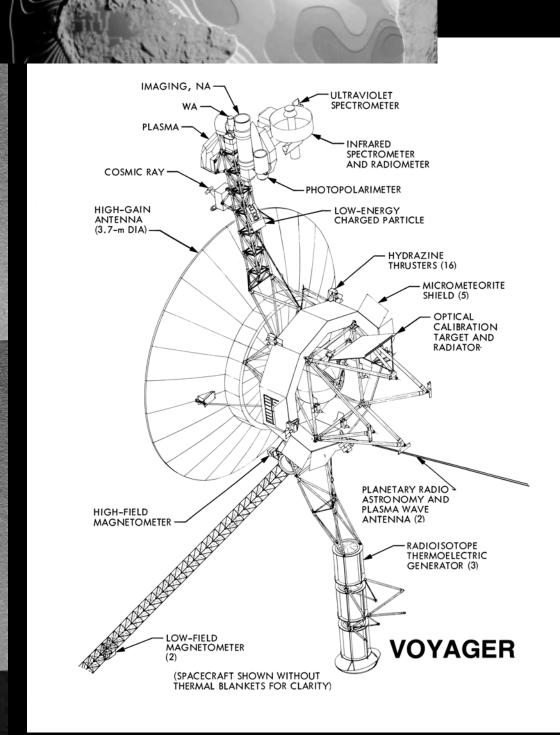
1952 — Retired 1979

Led a team of 14 Women and 7 Men known as the *Graphics Group*. They were cartoonists, advertisement illustrators and draftsman from the war.



Images courtesy JPL photo archives.



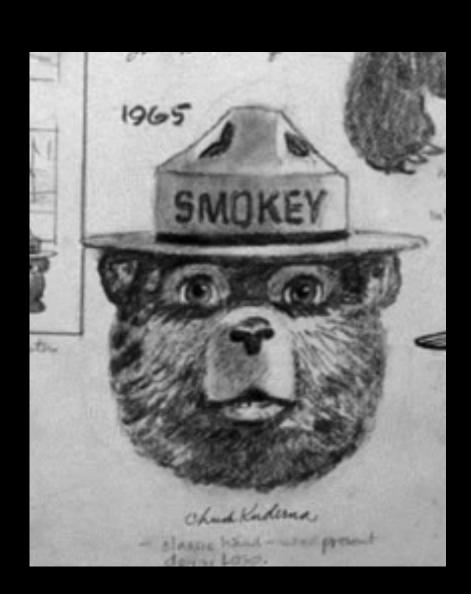


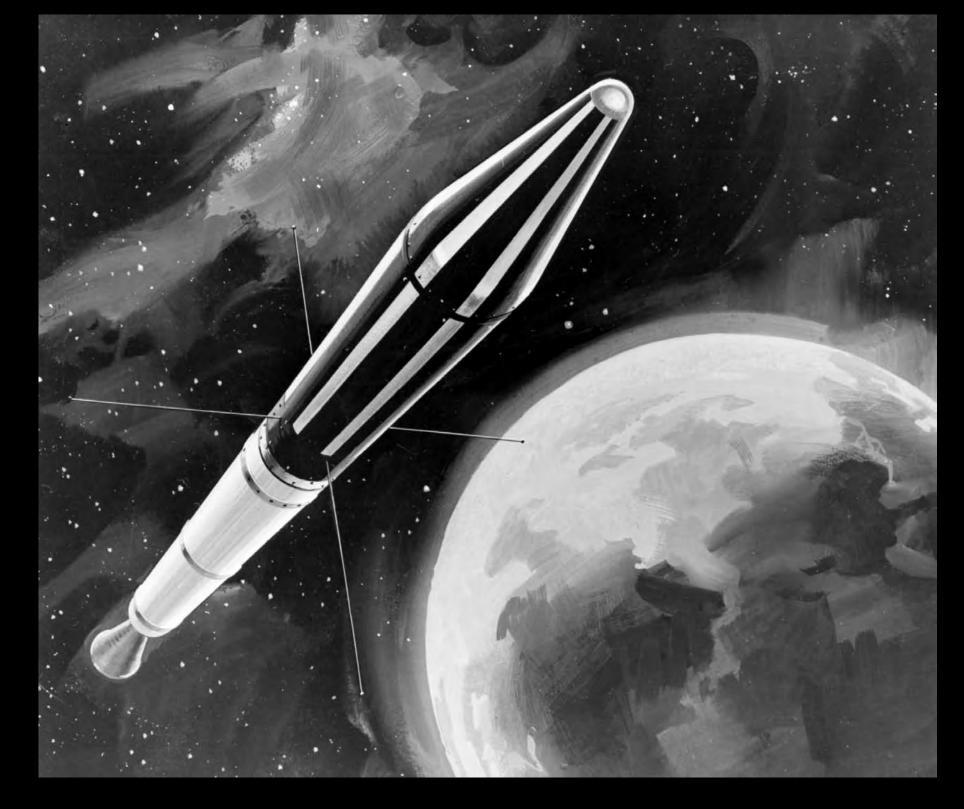


Chuck Kuderna 1950's

JPL I Illustrator

One of the original designers of Smokey The Bear. Passed away in an airplane accident.







Images of rocket Explorer 1 and plane JATO courtesy JPL photo archives.



Alan Wood 1950's

Technical Illustrator at JPL post WW2 who later became a public relations officer. His personal American flag that was flown at Iwo Jima.



Images of courtesy of photo archives.

JPL I Illustrator

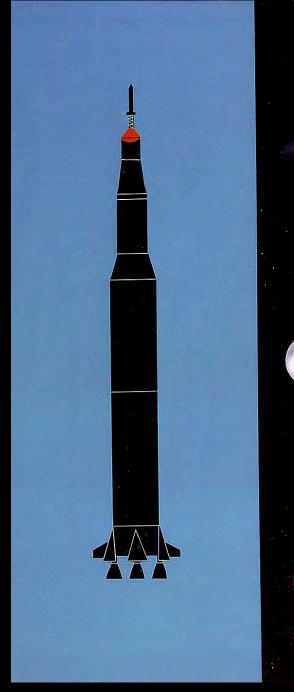


Rosemary Dobbins "Rocky" 1950's / 60's

Illustrator

She worked on every major NASA project but mainly focused on the Apollo program. Although she performed her duties with utmost professionalism, according to her family, she left with a stern word in 1966 to management to improve opportunities for women at the agency.









Images of rocket Explorer 1 and plane JATO courtesy JPL photo archives.



NASAART PROGRAM 1963

NASA Administrator James Webb created the program that granted artists ACCESS.

"Important events can be interpreted by artists to give a unique insight into significant aspects of our history-making advances into space. An artistic record of this nation's program of space exploration will have great value for future generations and may make a significant contribution to the history of American art."

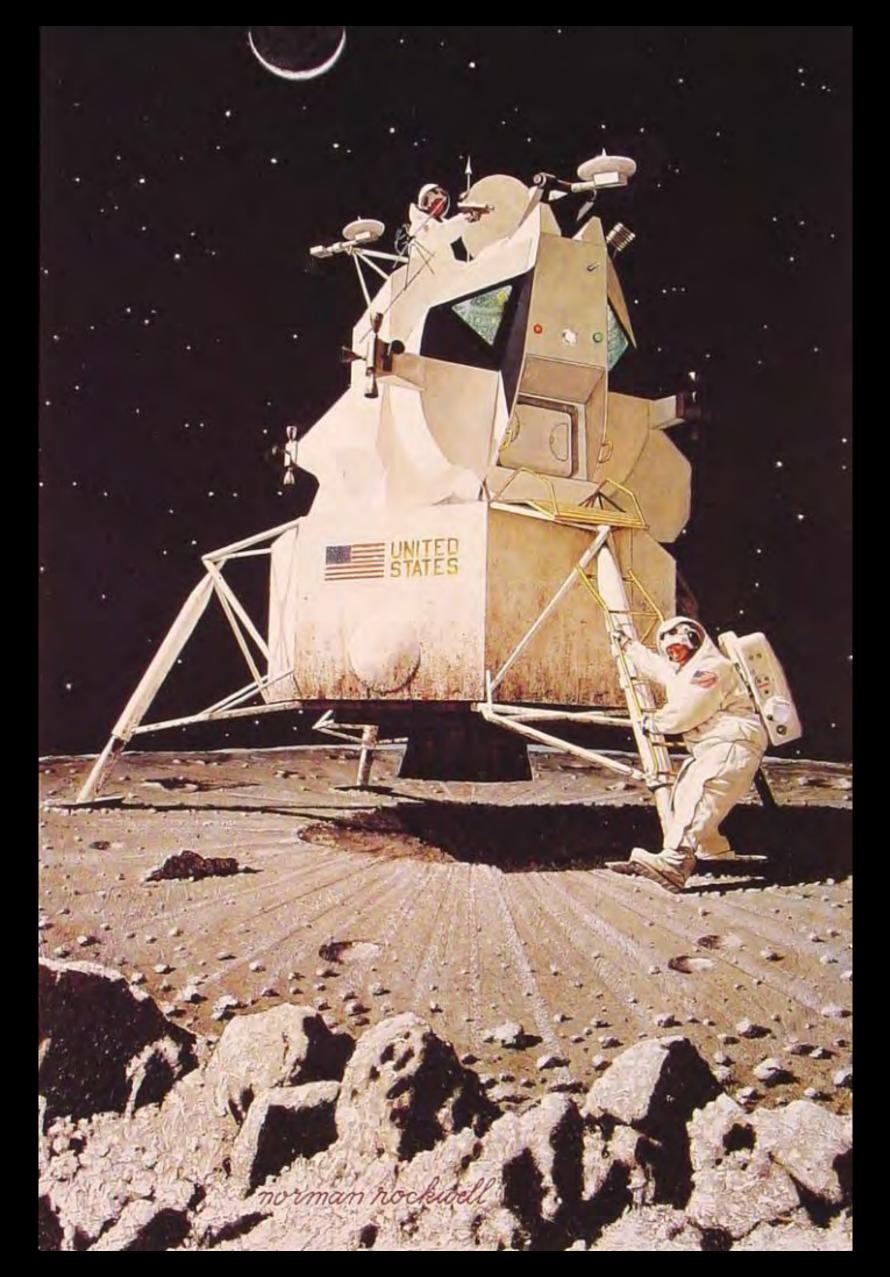
- James Webb



Andy Warhol



Mitchell Jamieson



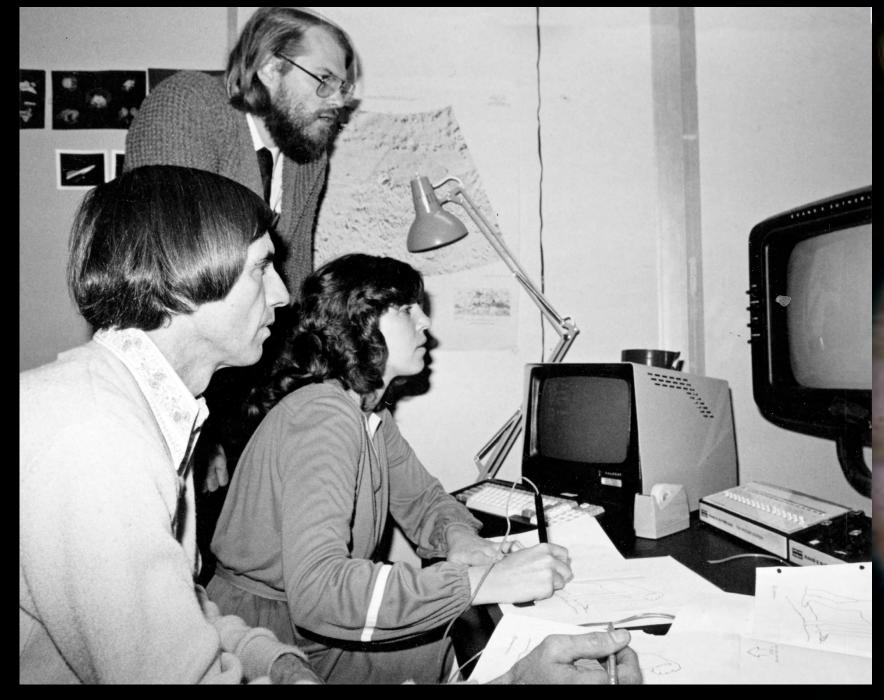
Norman Rockwell

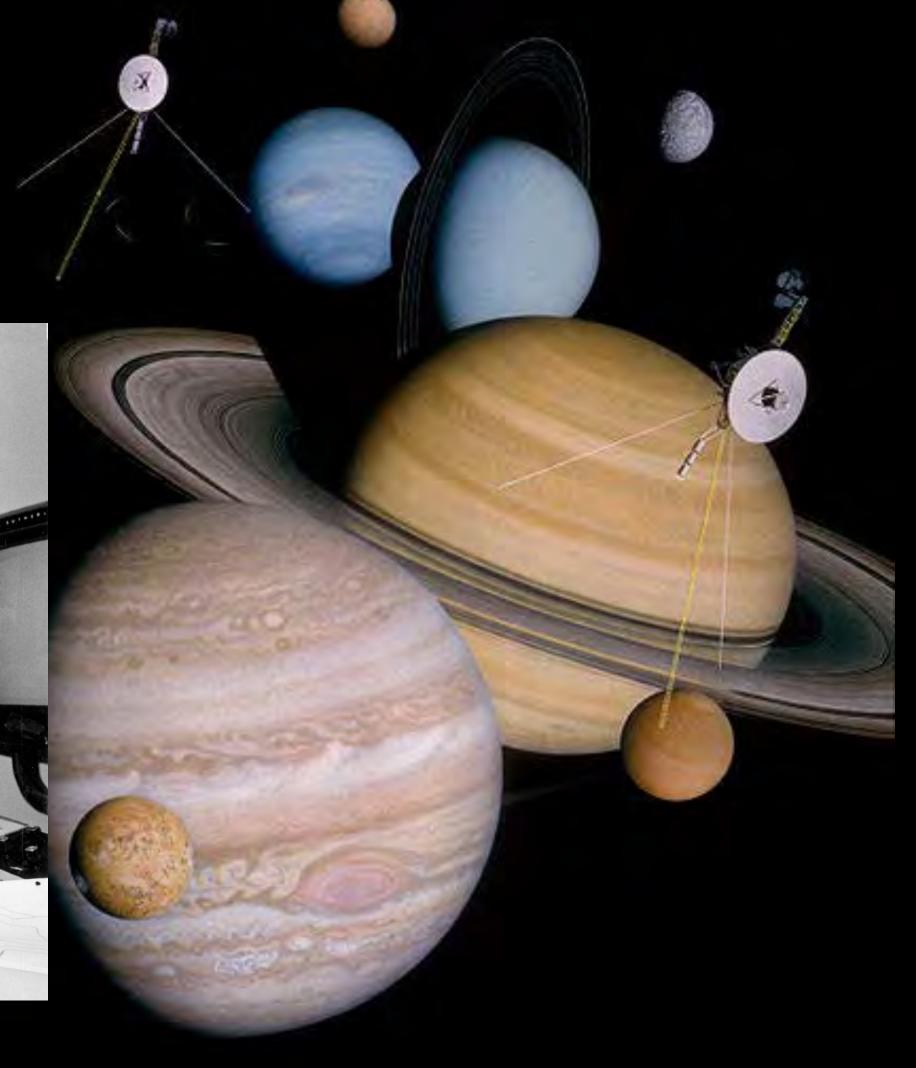


NASA JPL COMPUTER GRAPHICS LABORATORY

1977 — 1990

This small team lead by
Bob Holzman pioneered early
3D computer graphics and
animation applicable into
areas of NASA space flight
Operations, planetary
encounters and visual
outreach to news
and media.





Dr. Jim Blinn, inventor of Blinn's Law, which asserts that rendering time tends to remain constant, even as computers get faster.



1980s

A heyday of education, design, products and outreach that solidified NASA presence in pop culture, media and design. Outside artists were commissioned for outreach and education.





Artist Robert McCall

https://www.nasa.gov/topics/people/features/mccall_gallery.html



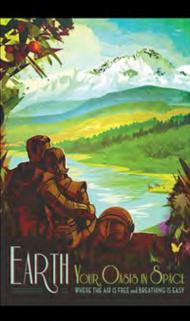
Today

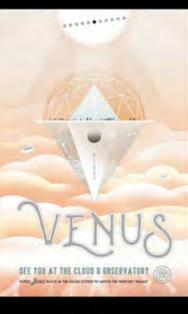
Exoplanet and Visions of the Future travel posters released in 2015 went viral warranting millions of downloads still appearing in homes, offices, online backgrounds and in tv and films everywhere.

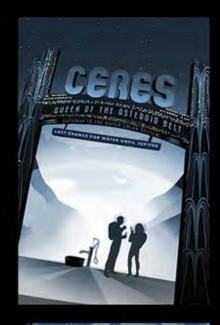


HD 40307g EARTH







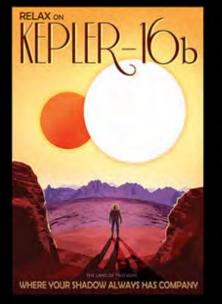








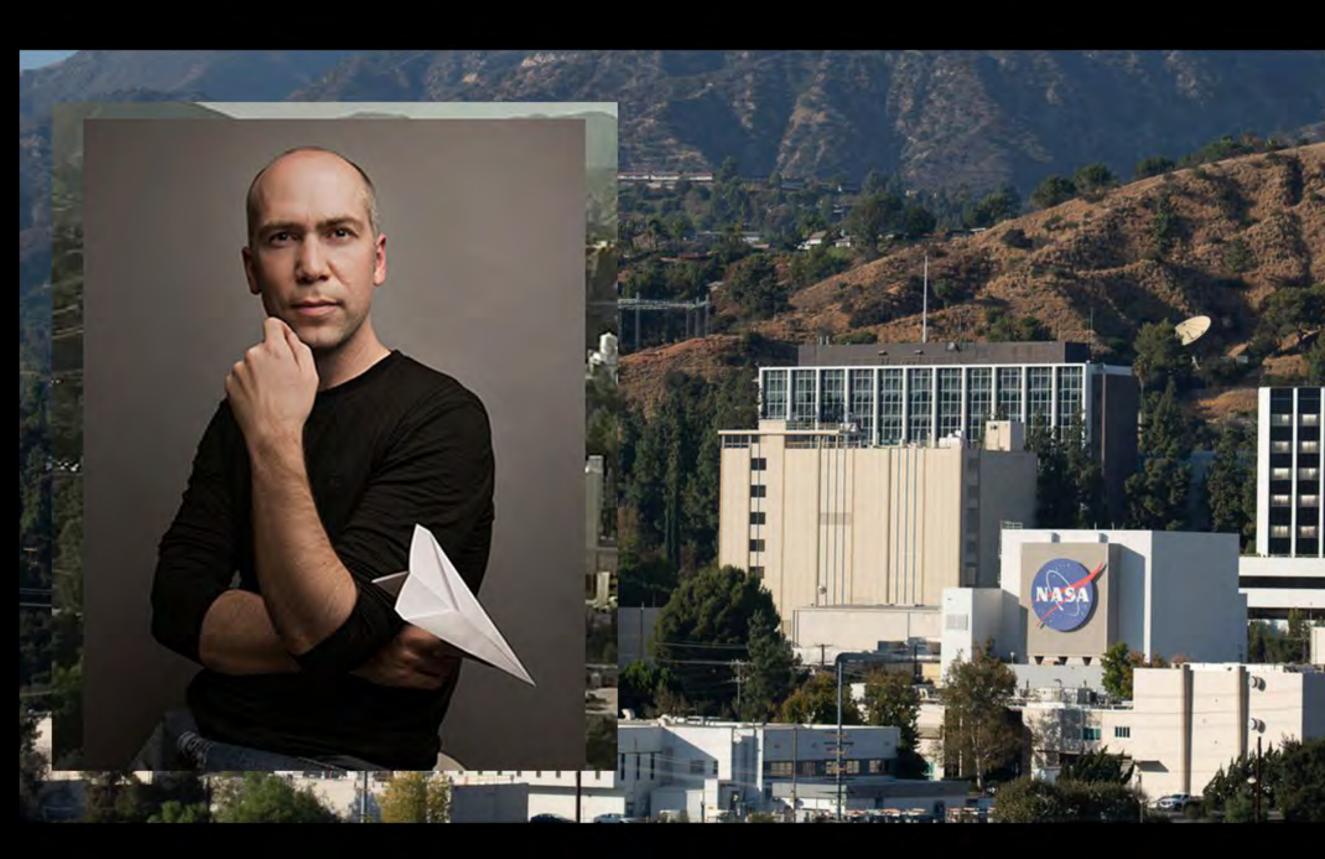












Dan Goods, The Studio



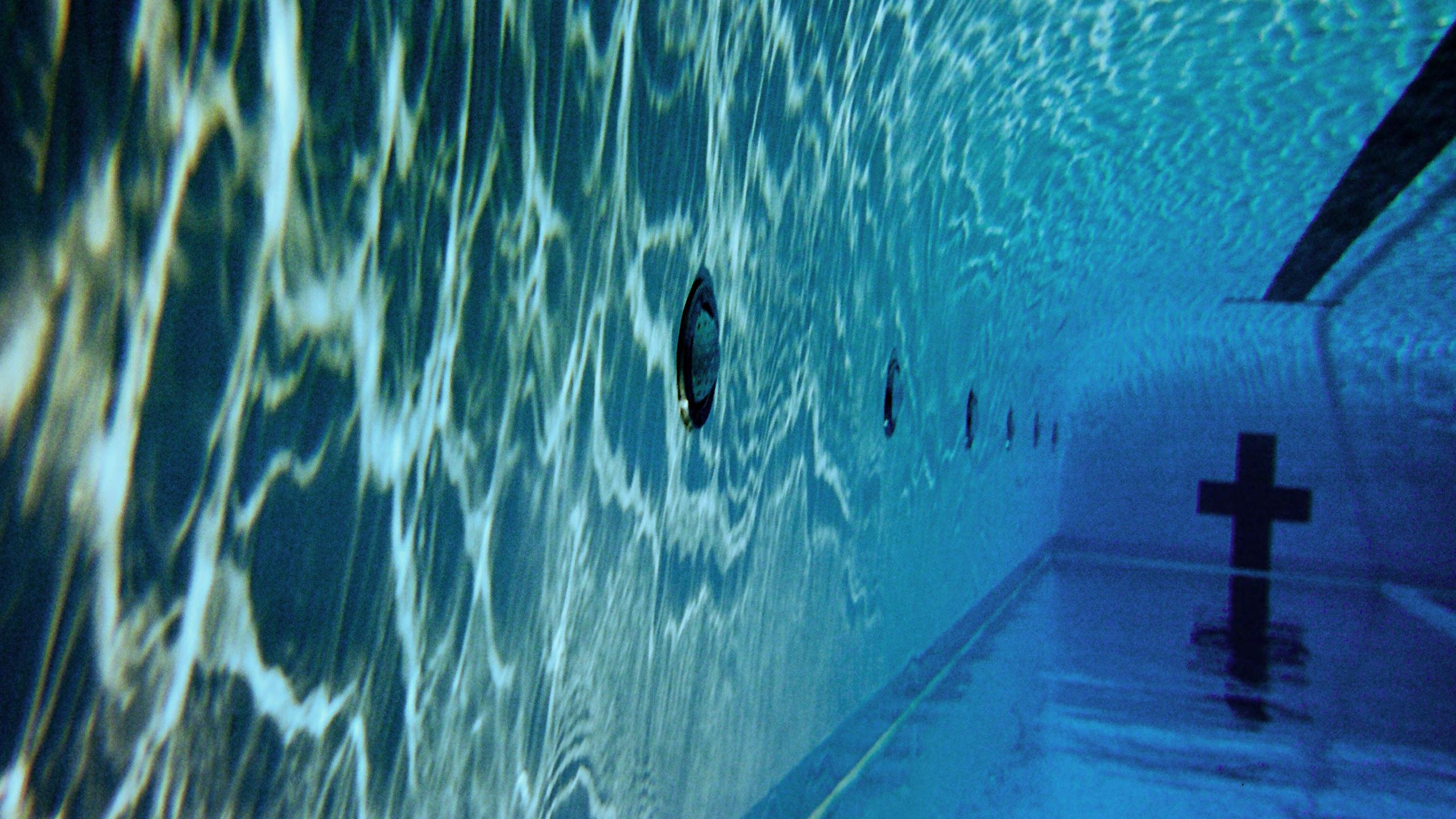
JOBY HARRIS

Visual Strategist | NASA/JPL

Instagram @joby



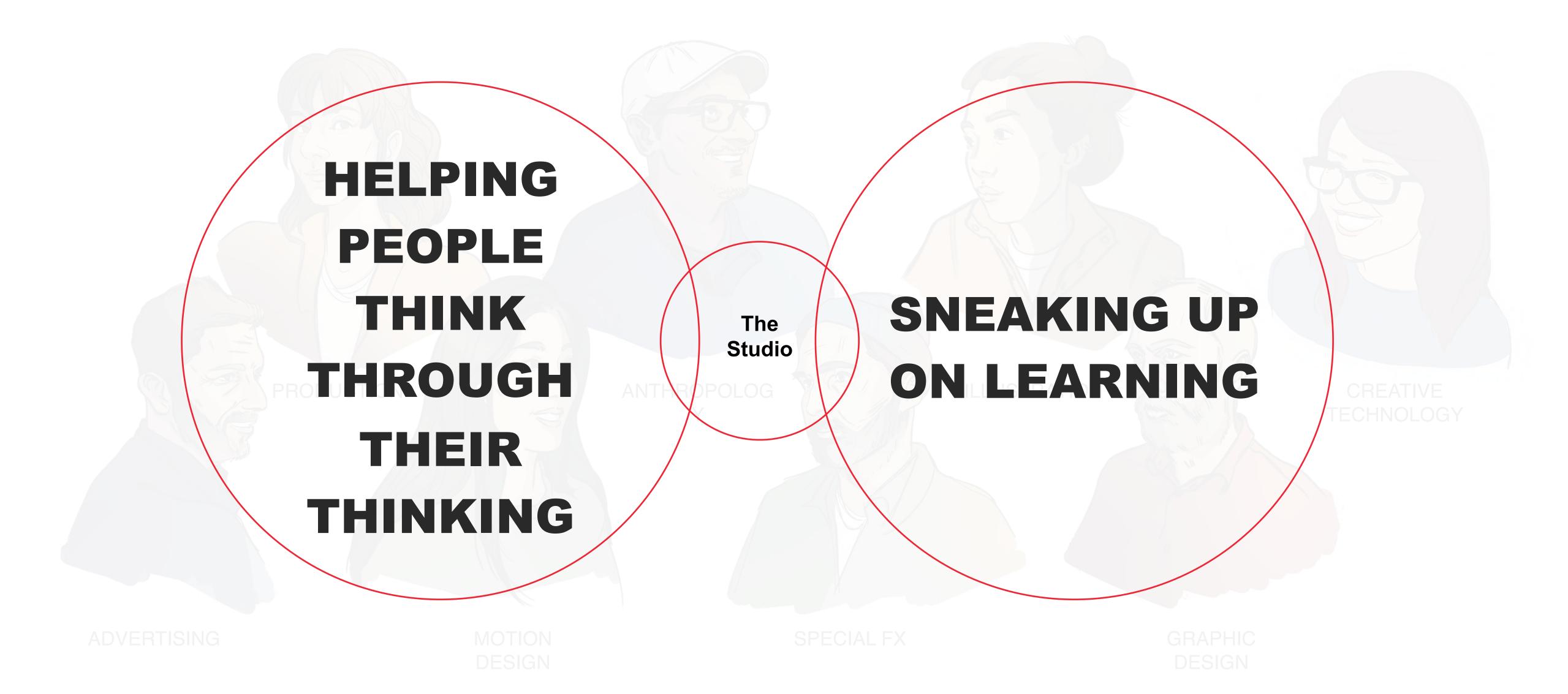




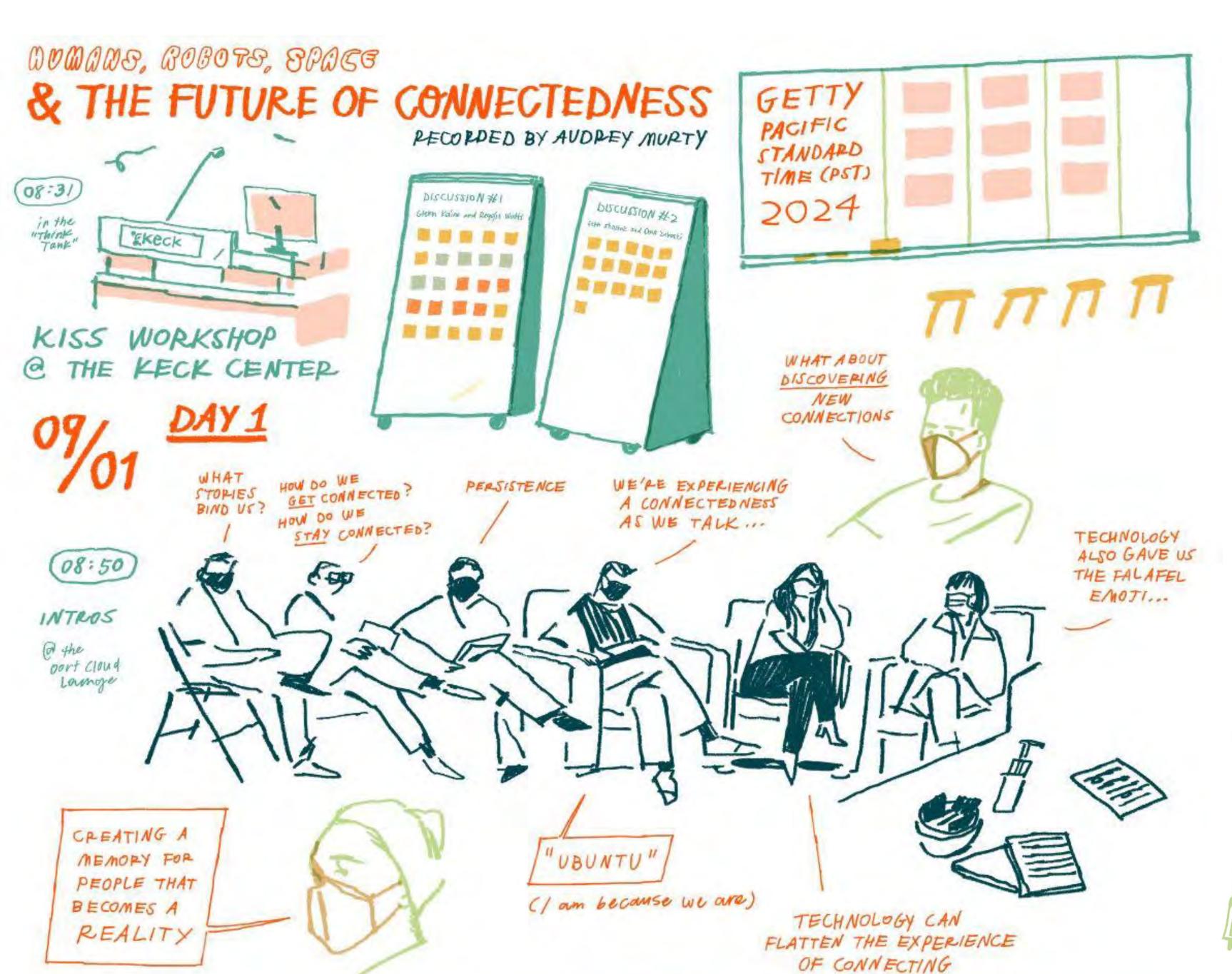


ADVERTISING MOTION DESIGN SPECIAL FX GRAPHIC DESIGN













[11:45]

MORE BRAINSTORMING

WIAT'S TIE

BELEVANCE OF

CONNECTEDNESS

TO SEI ROPOTIC

EXPLOSATION



ASTRONAUT DEVICES AND WEARABLES WORKSHOP



Idea Cluster

EXPLANATION

Clustering Ideas helped us turn individual ideas with similar themes into robust solutions by identifying items that are improved through working in systems as well as ideas that work best as stand alone innovations.

TIME

30 Minutes

PARTICIPANTS

All Participants

/ FRAMEWORK

We identified the problem areas below that will benefit from JPL technology and potential partemships.

Asset Awareness

Today on earth we have robotic systems that can recognize and pick a tool out of thousands. To alleviate stress on the astronaut's body, a system for identifying assets would be beneficial. Assets include:

- · Tools on the field
- Medical Devices
- Other Astronauts

Biometric Sensors

Data collected from a system of sensors that provide real-time monitoring of astronaut sleep and activity patterns as well as habitat health would be beneficial in developing solutions for sleep apnea and mental fatigue. Daily processes may also be improved by recognizing movement patterns and environmental issues.

- Physiological Behavorial
- Environmental

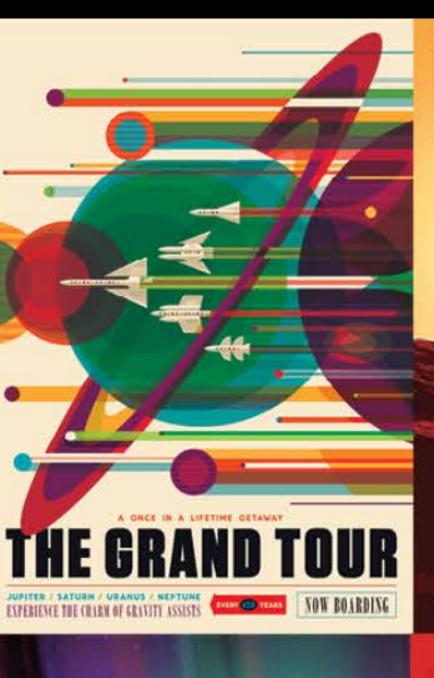
Communication

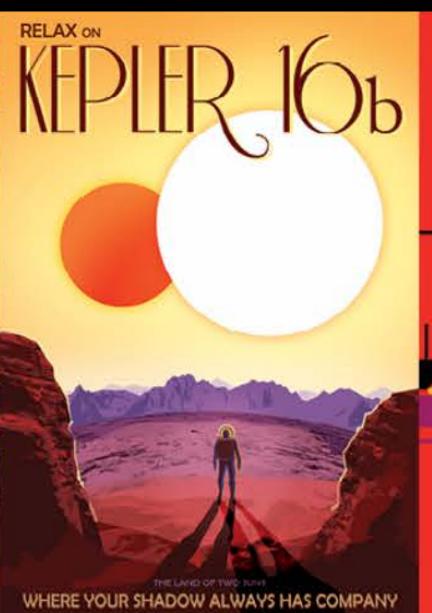
"Advanced fabrics" currently in production that can see, hear, sense and correspond might be utilized when creating a system for communication on mars. A system would include the space suit, the habitat and all vehicles with user intuitive interfaces when necessary. Some examples are:

- Real time GPS tracking
- · Suits that respond to each other and the habitat.

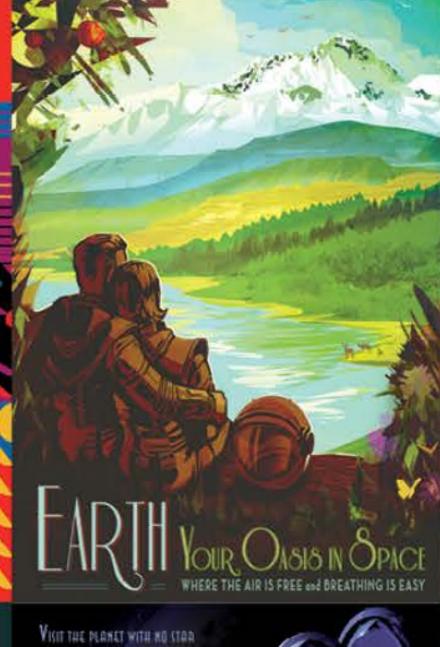


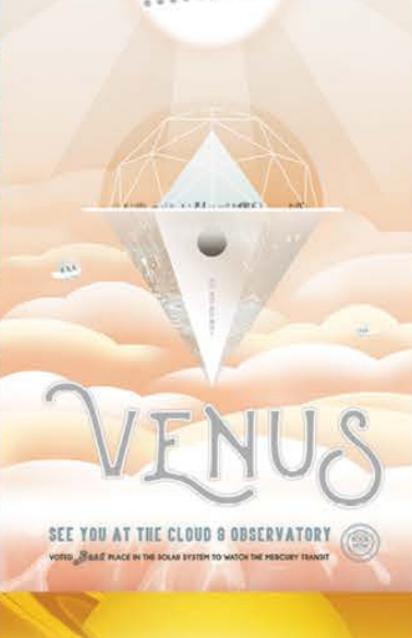




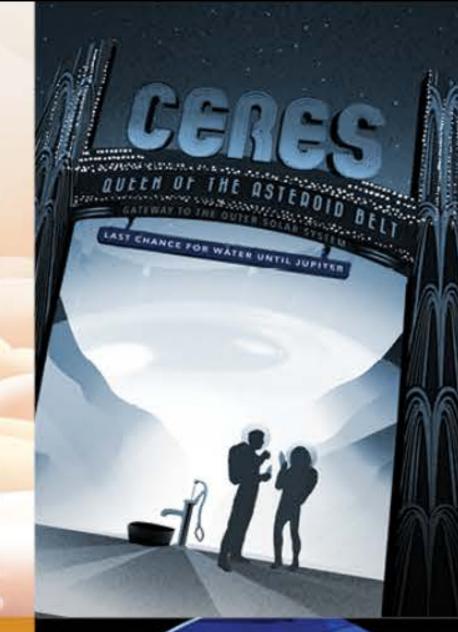








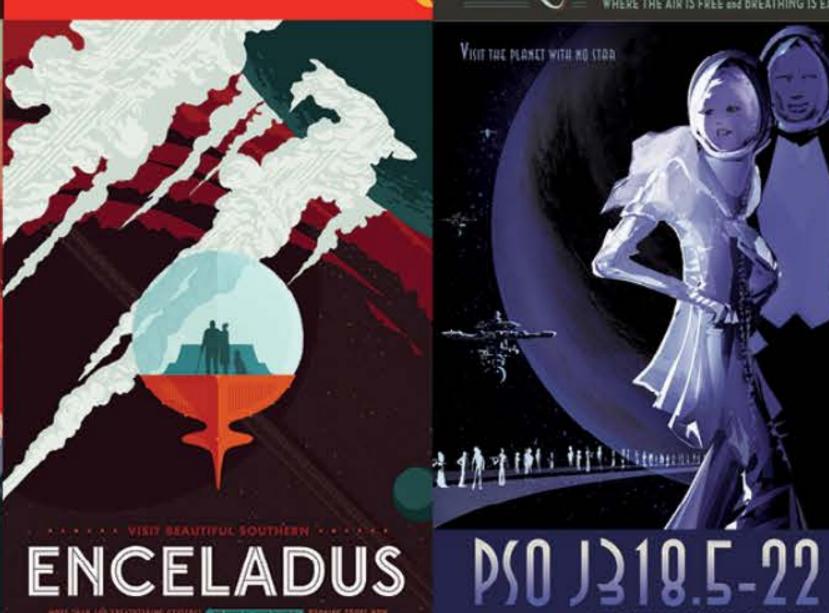
TITAN











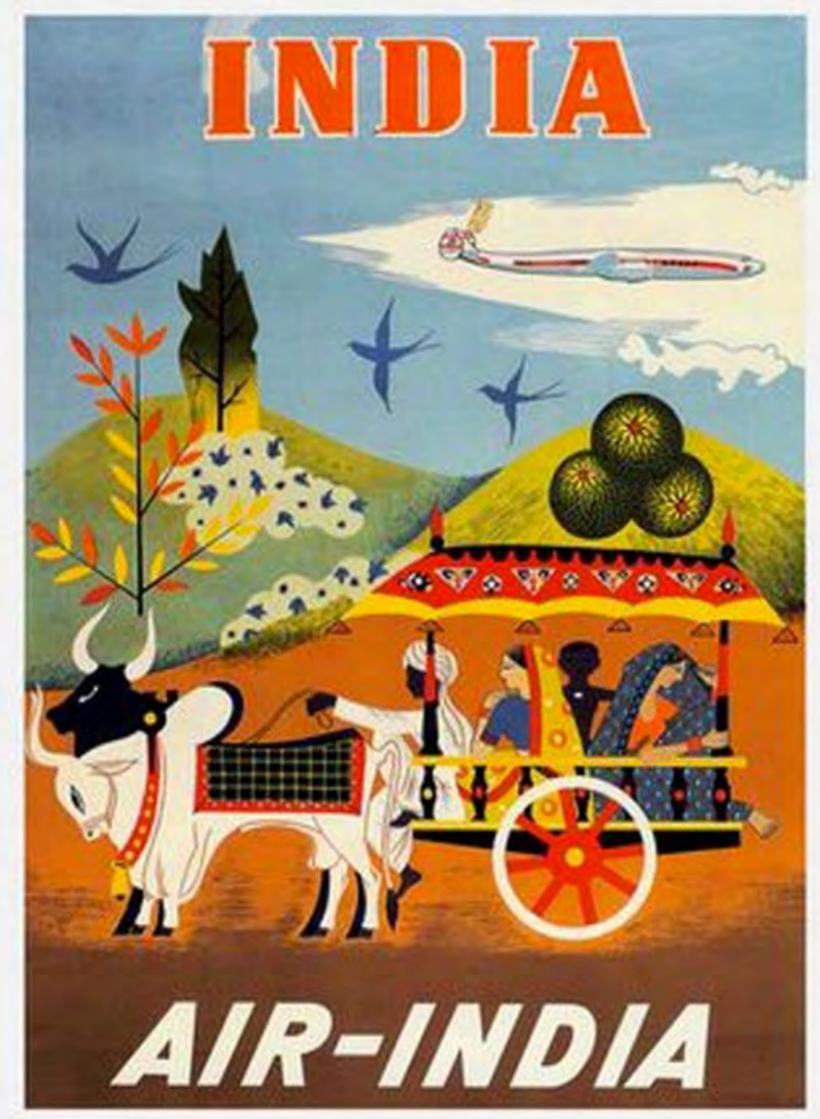






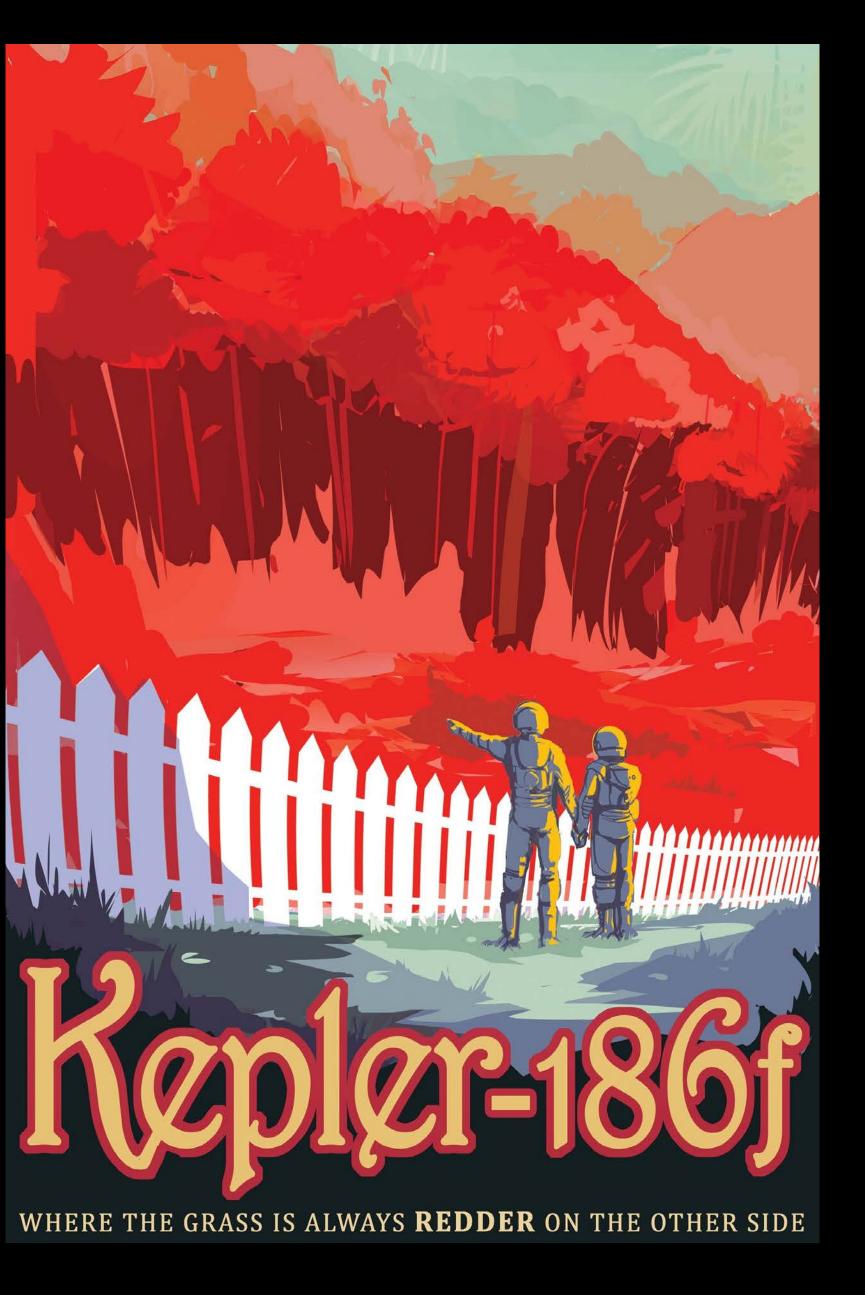
FOR SUNNY DAYS & MAGIC NIGHTS

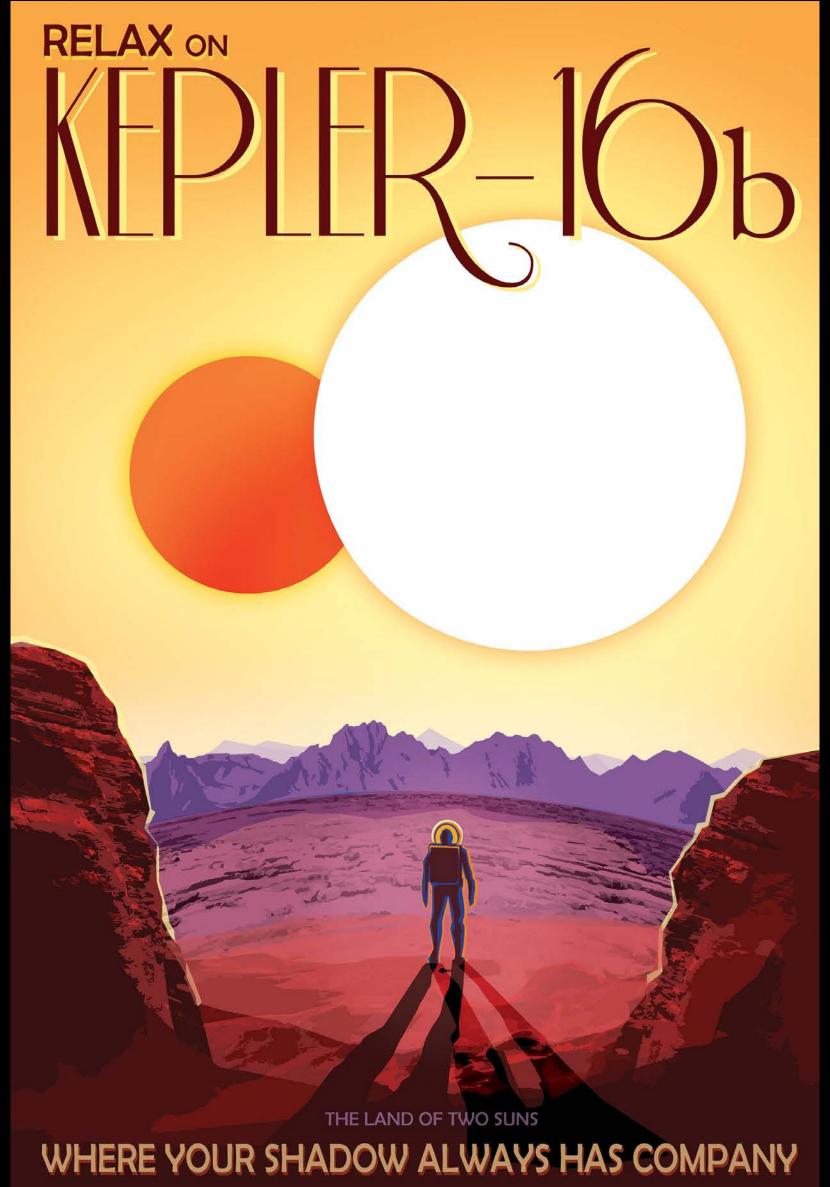




















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MHEBE THE HIGHTLIFE HEVER ENDS!







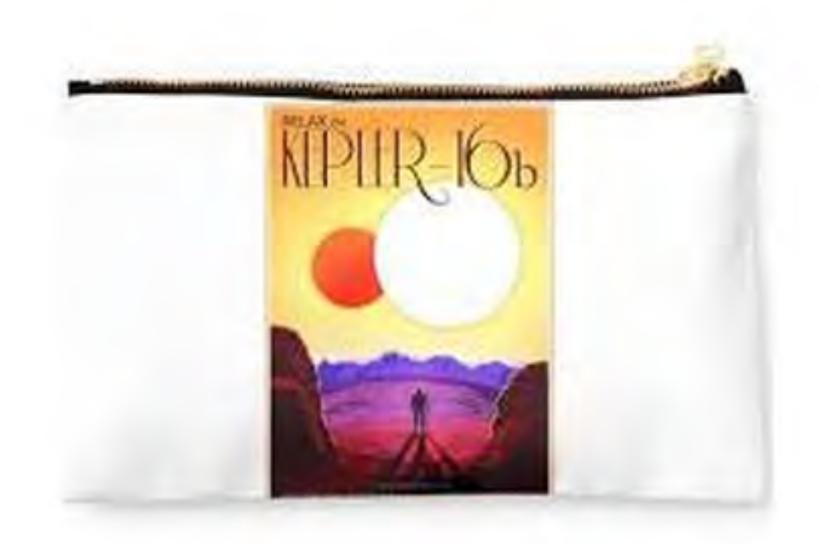
















Retro NASA Travel Poster - Kepler 186f Hip Flasks

"Where The Grass Is Always Redder On The Other Side". Kepler-186f is 'habitable zone' around another star, where ...

See more details at Zazzle »

\$30.95

+\$2.86 tax and \$5.99 shipping

Zazzle

Shop

...I would like to acquire the posters so I can hang them in our child's nursery. My wife isn't pregnant now, but we plan to start trying in the next few months. I would like my son/daughter to grow up dreaming big,



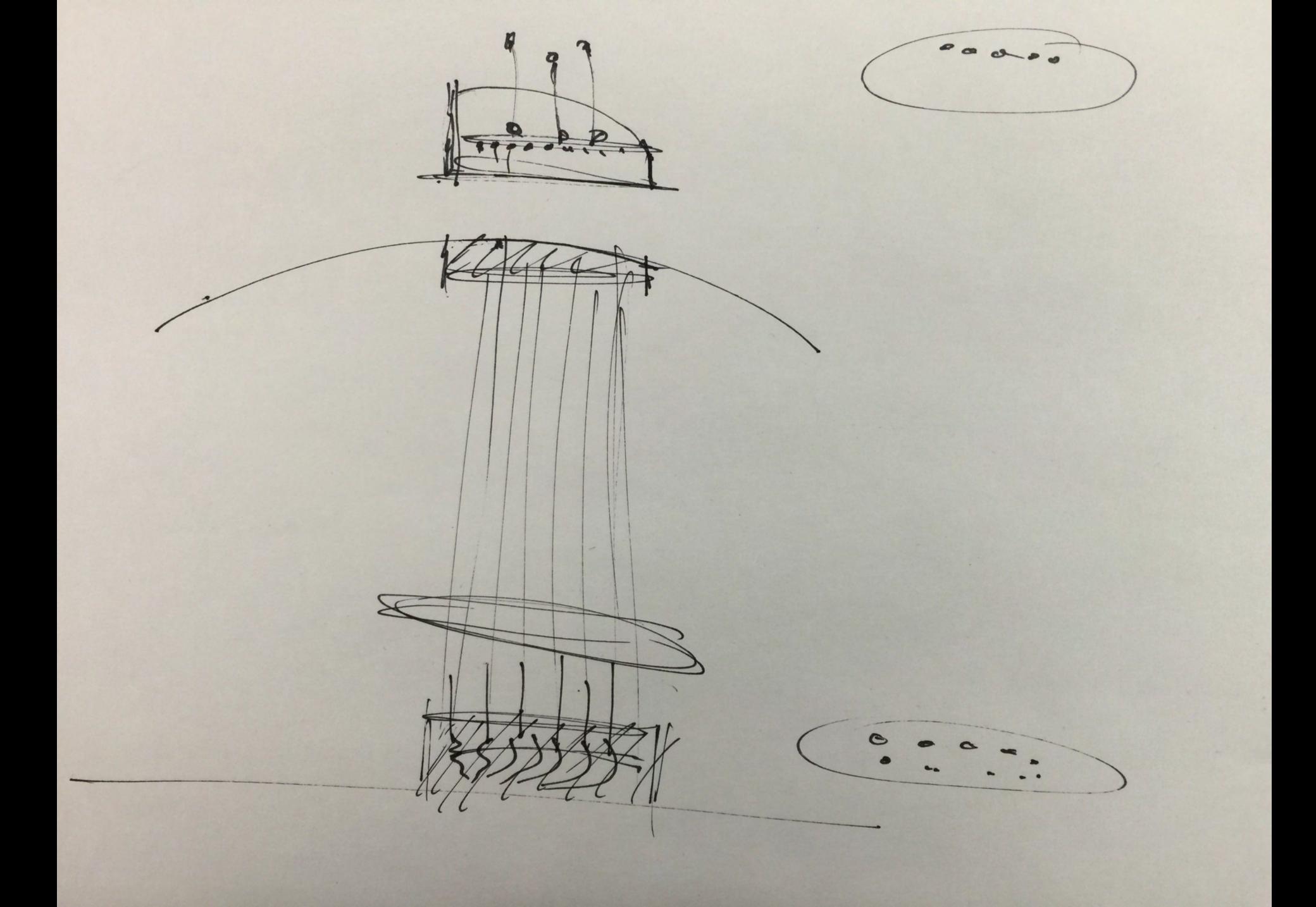








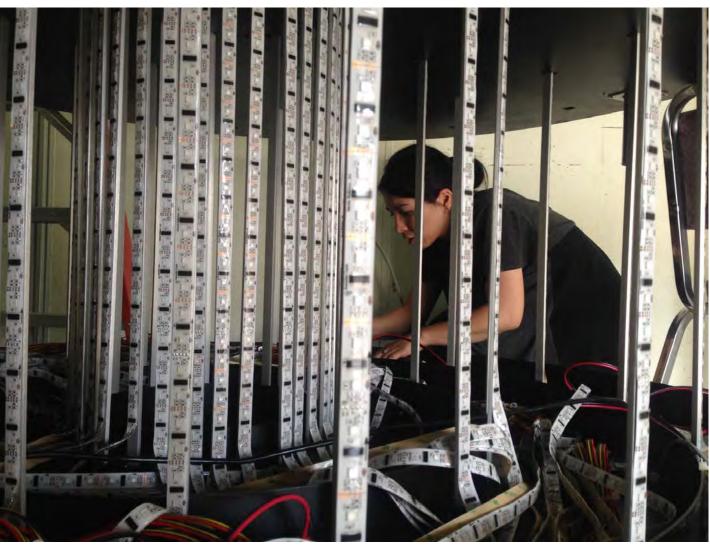




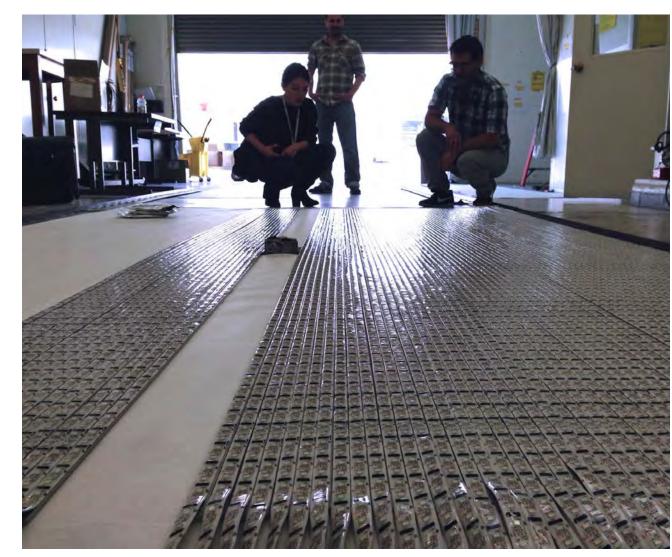
















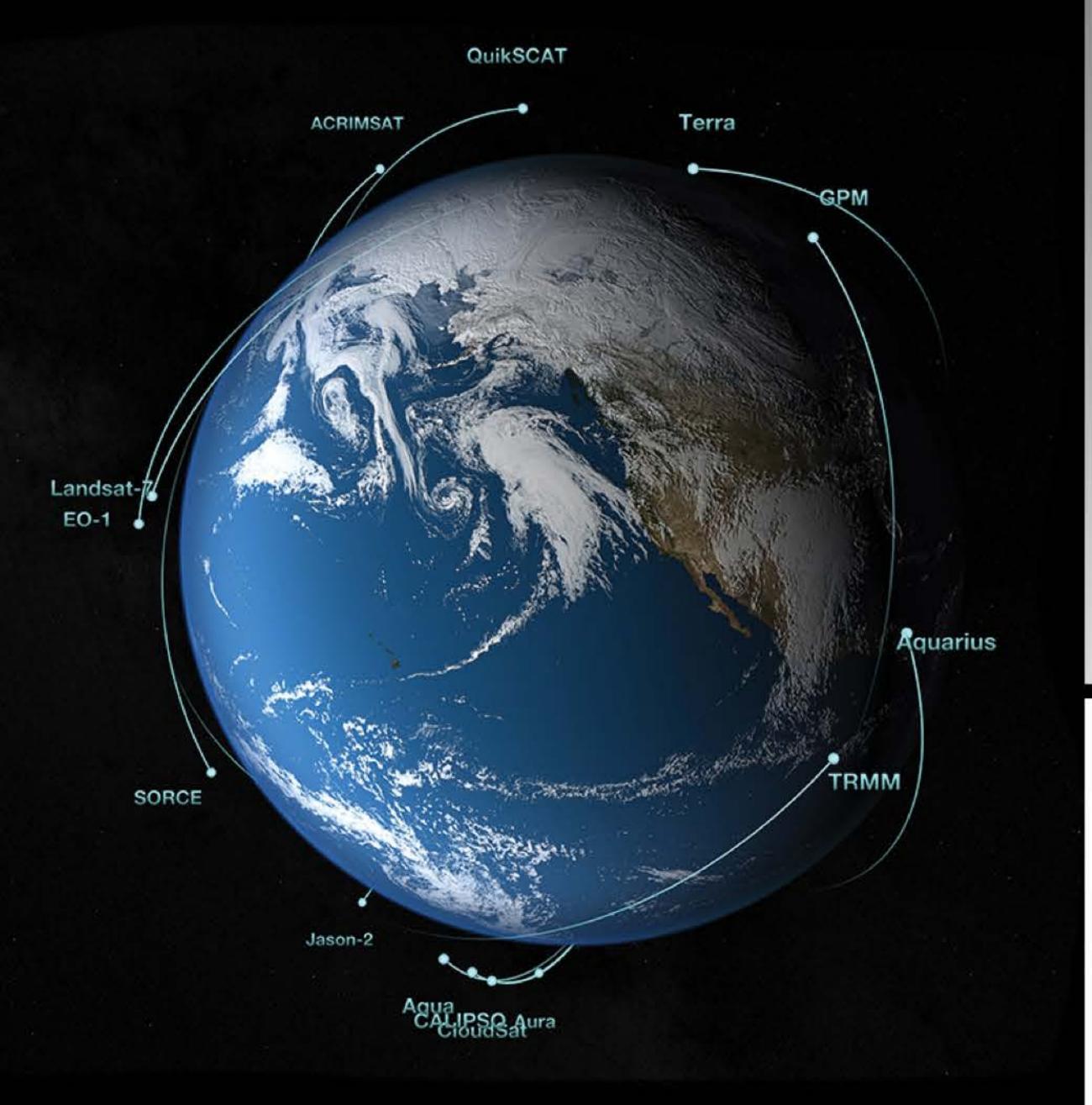


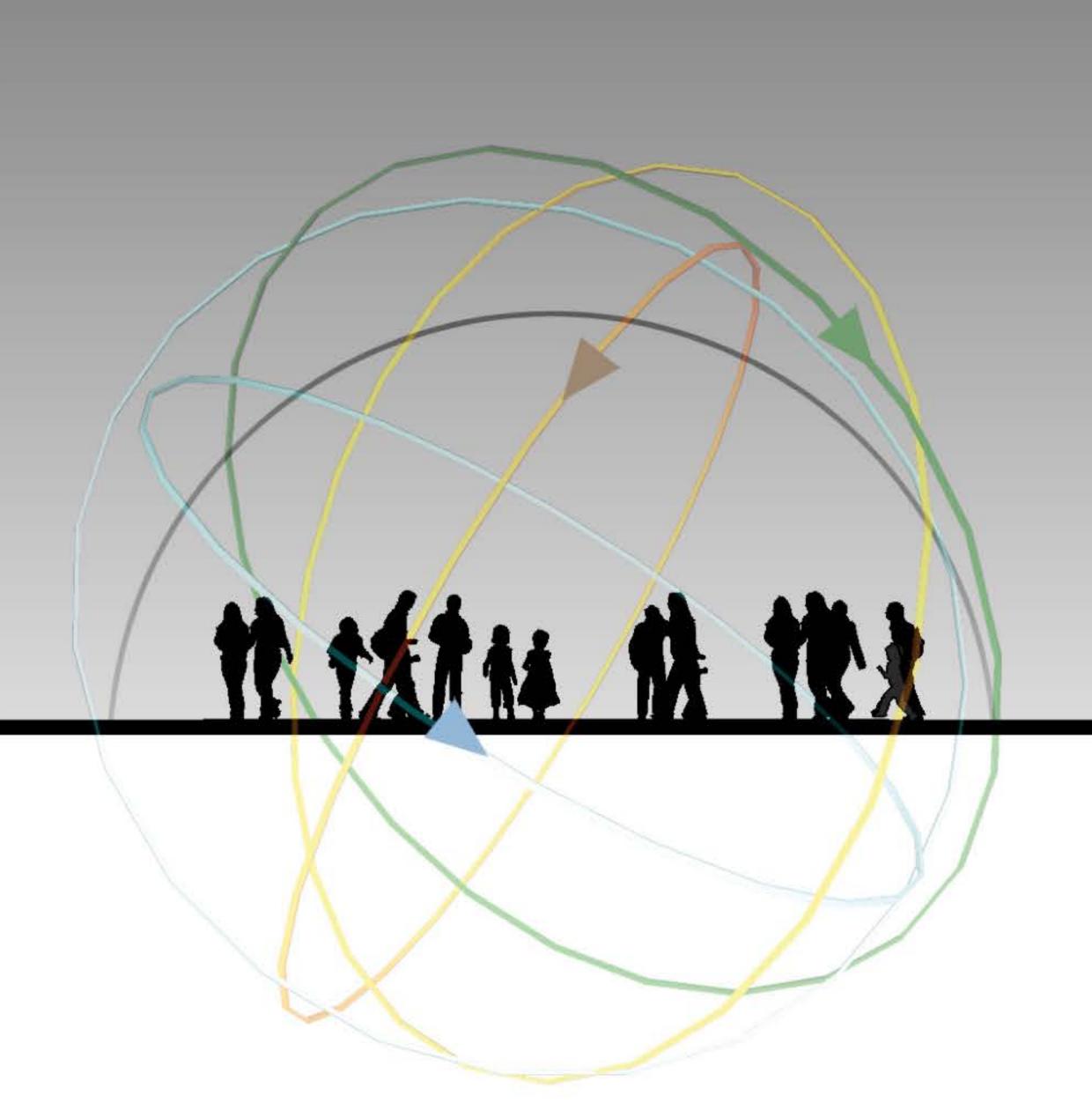


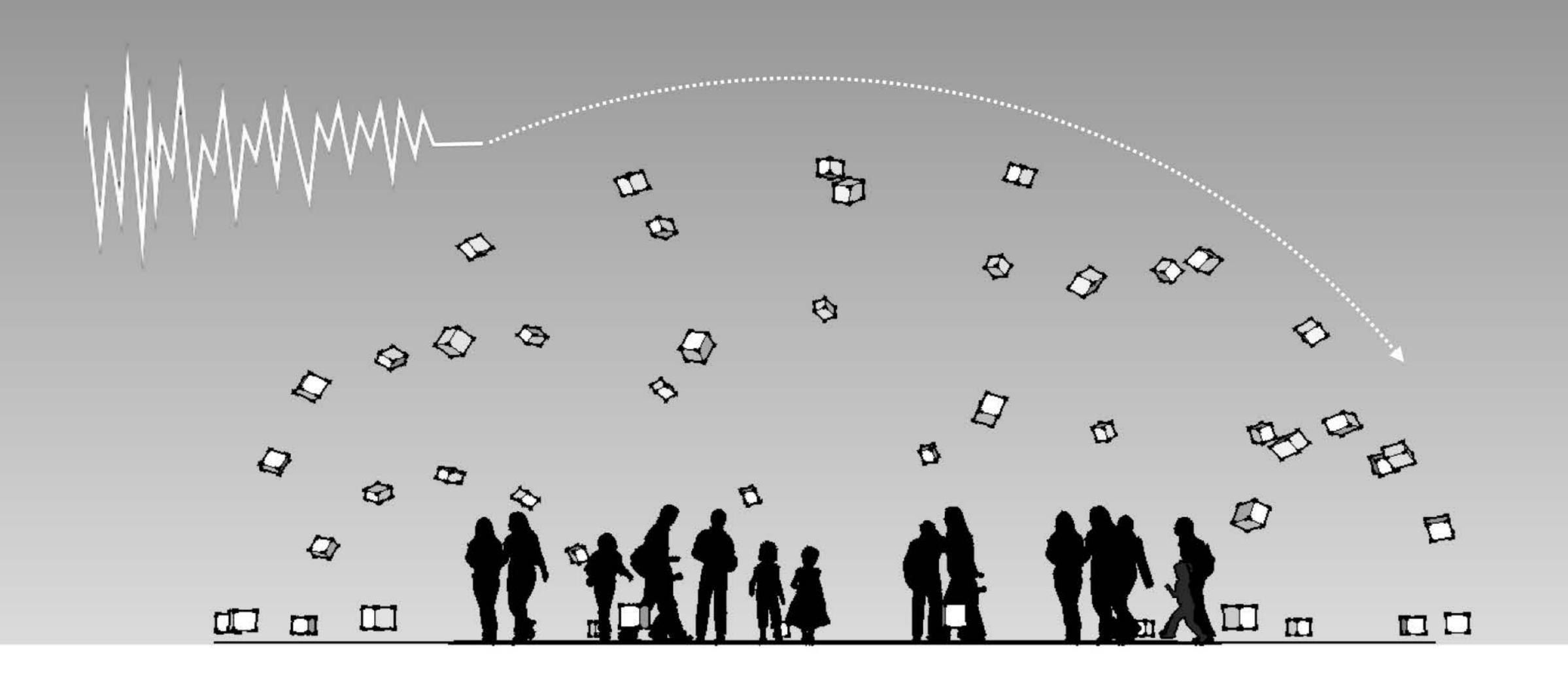


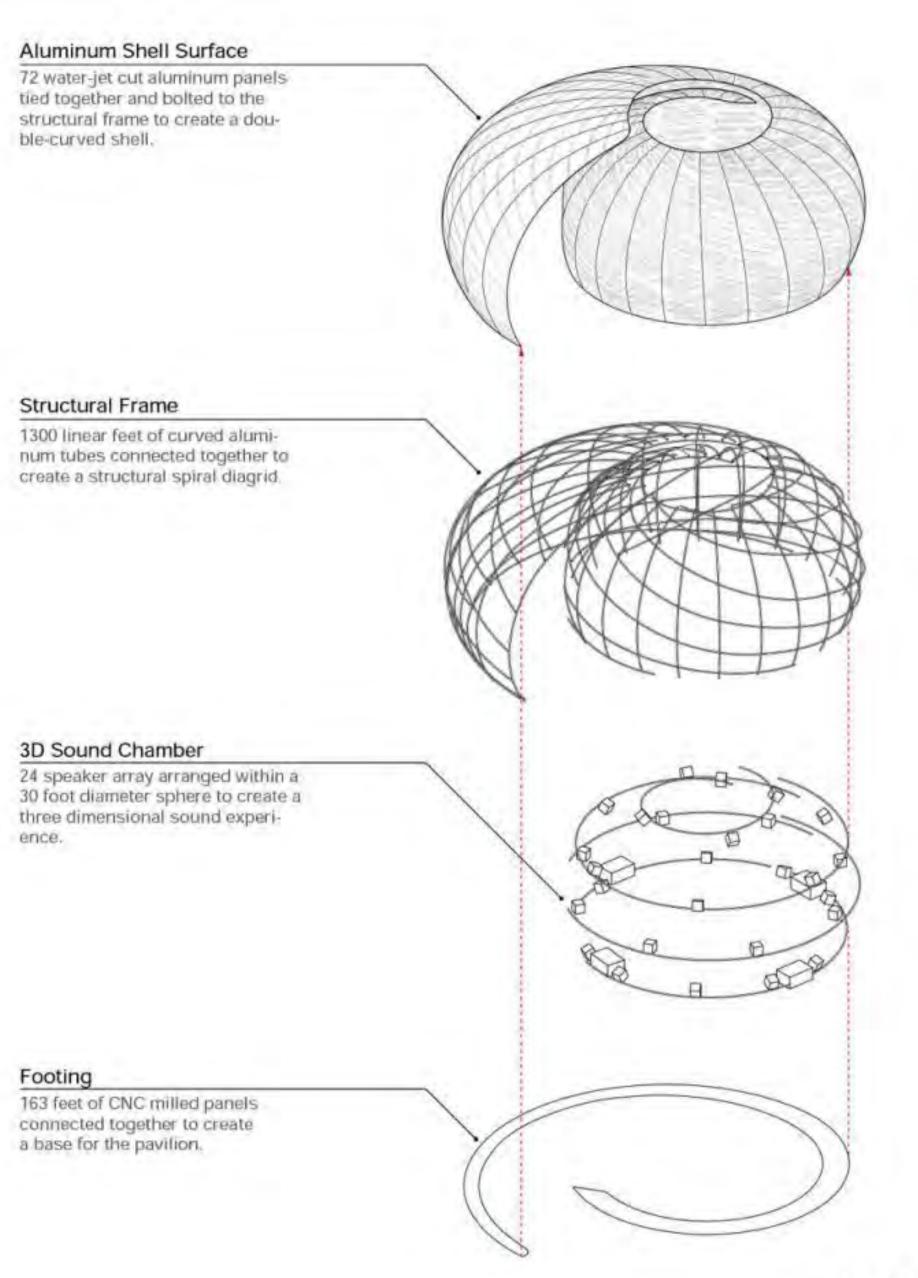








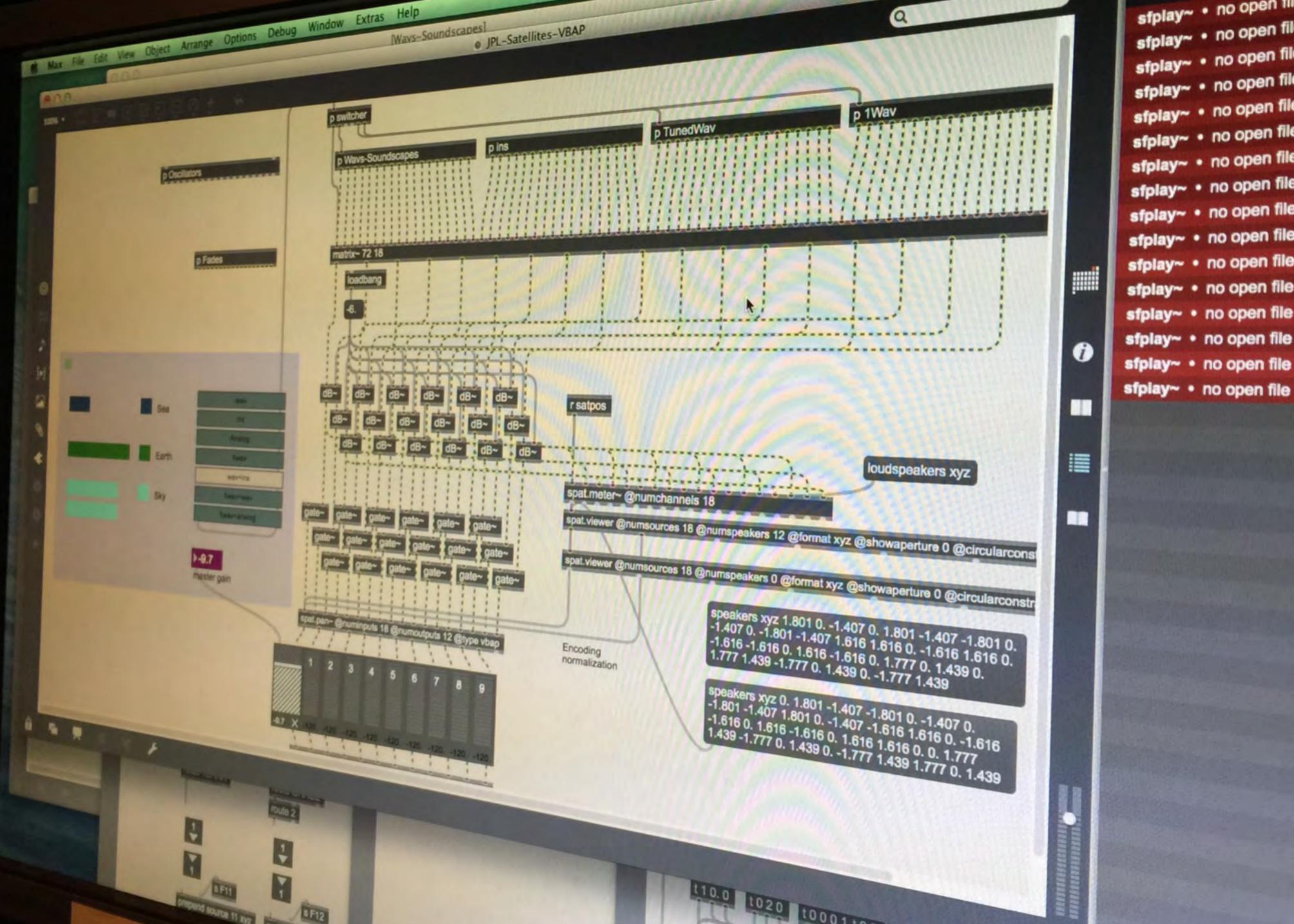












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