

The background features a complex network graph on the left side, composed of numerous small dark gray dots connected by thin gray lines. To the right of the graph, several large, light gray triangles of varying sizes are scattered across the white space. Some triangles overlap or point towards the center of the image.

Kinetic Art

names

IDEA 1

Here you could describe the topic
of the section

01

IDEA 2

Here you could describe the topic
of the section

02

IDEA 3

Here you could describe the topic
of the section

03

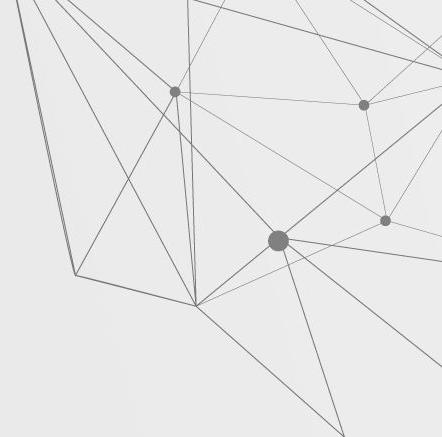


TABLE OF CONTENTS



OX

FOURIER DISPLAY



FOURIER DISPLAY



OVERVIEW

- Every 1D or 2D signal can be broken down into epicycles (spinning circles) ←
- Applications: Audio processing, image compression, differential equations, optics, radio astronomy... ←
 - Fourier series and transforms are tough concepts to grasp ←
 - The results are beautiful ←

Let's Make One!

CONCEPT



"SISYPHUS" TABLE TOP

Ball bearing draws pattern in the sand.

GLASS ENCLOSURE

Supports stationary top

ROTATING FRAME

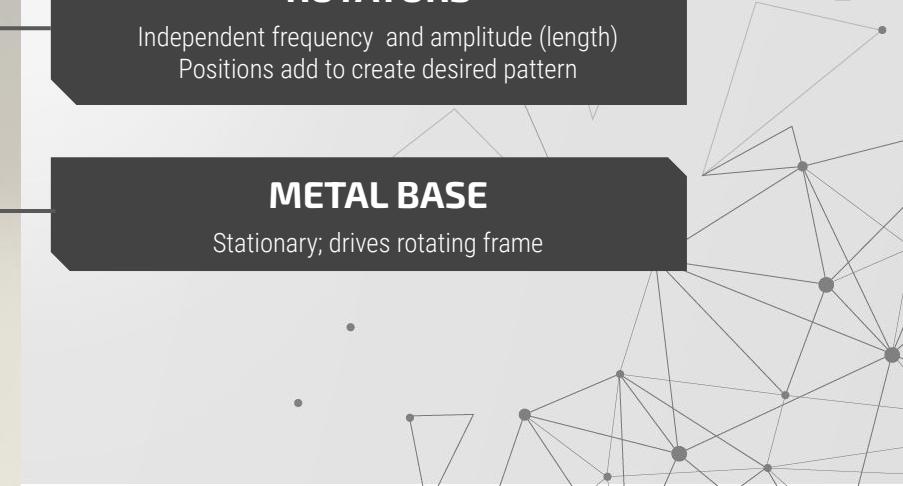
Rotates relative to the base
Allows the rotators to move radially

ROTATORS

Independent frequency and amplitude (length)
Positions add to create desired pattern

METAL BASE

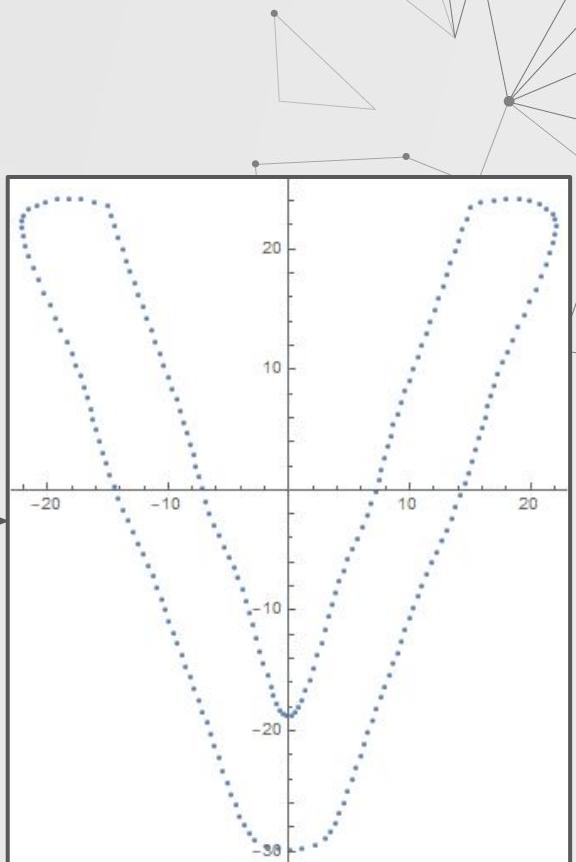
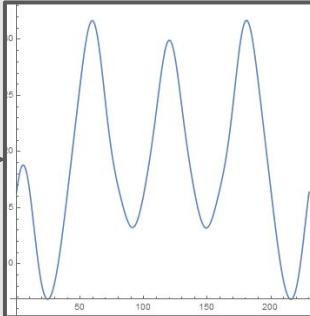
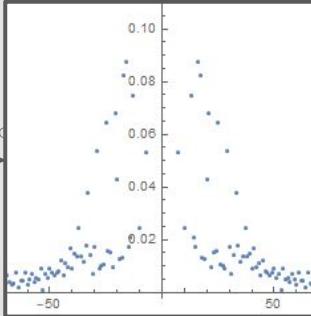
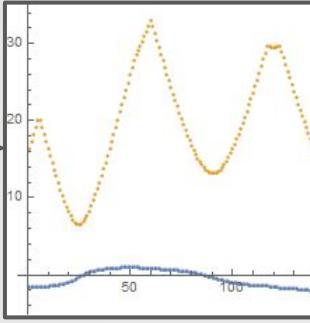
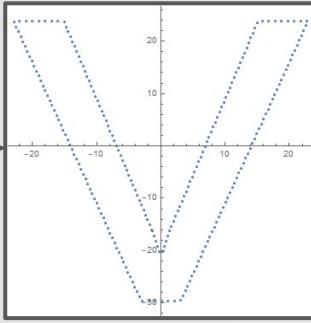
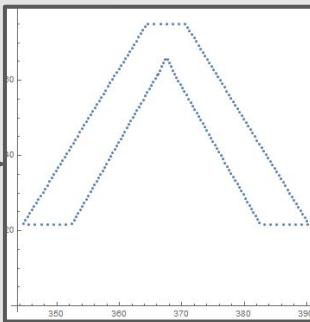
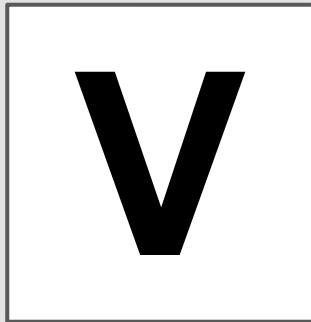
Stationary; drives rotating frame



ANIMATION



THE MATH



THANKS!

any questions?

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CHALLENGES



MECHANISM

Lots of moving parts
Power/signal transmission
Space/cost constraints

Tight tolerances
Gears and linkages
Limited tools

MANUFACTURING



PROGRAMMING

Algorithm Optimization
(Minimize epicycles)
Reliability

It's gotta look good!
Quiet operation

AESTHETICS



2nd ANNOUNCEMENT

MARS

Despite being red,
Mars is a cold place,
not hot

NEPTUNE

Neptune is the farthest planet from the Sun, the
fourth-largest in our Solar System

JUPITER

It's a gas giant and the
biggest planet in our
Solar System

SATURN

Saturn is a gas giant,
composed of
hydrogen and helium

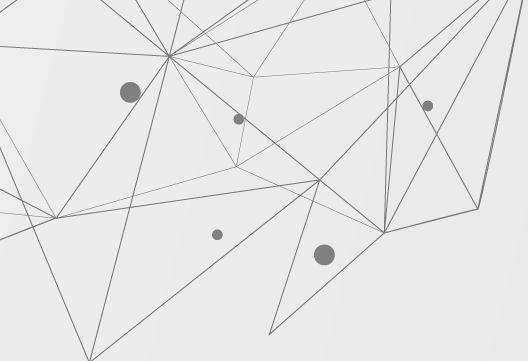




02

IN DEPTH

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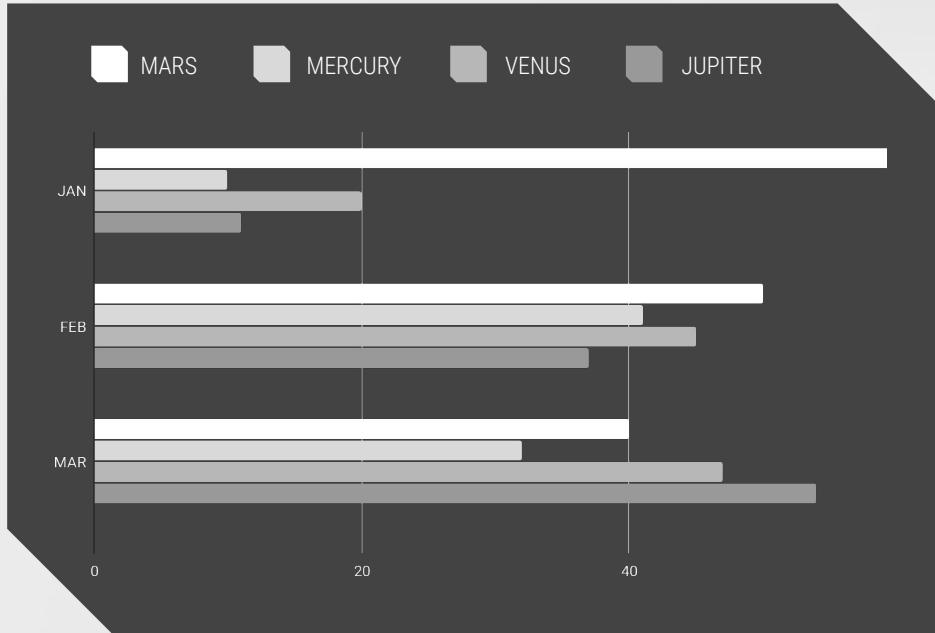
IN DEPTH

MERCURY

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon. The planet's name has nothing to do with the liquid metal, since it was named after the Roman messenger god, Mercury



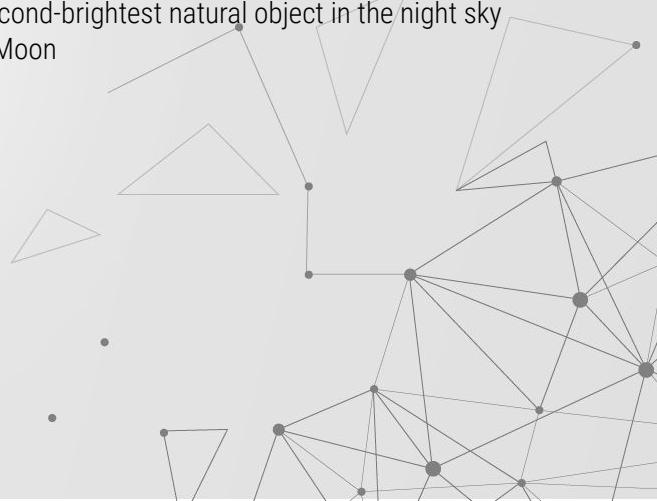
IN DEPTH



If you want to modify these graphs, click on them, follow the link, change the data and replace them

VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury—and its atmosphere is extremely poisonous. It's the second-brightest natural object in the night sky after the Moon.



OUR NUMBERS

500

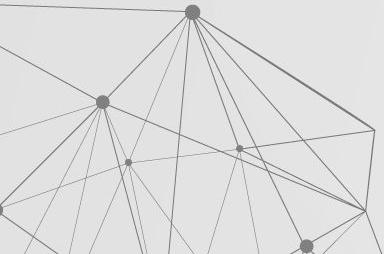
new clients last semester

100

ongoing projects

40

new employees last semester



SECTOR NEWS



VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot, even hotter than Mercury

Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust, which gives the planet its reddish cast

MARS



SATURN

Yes, this is the ringed one. It's a gas giant, composed mostly of hydrogen and helium. It's named after the Roman god of wealth and agriculture

A complex network graph is visible in the background, consisting of numerous small, semi-transparent dark grey dots connected by thin grey lines, forming a dense web of triangles and polygons.

03

IN BRIEF

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NEWS



NEPTUNE

Neptune is the farthest planet from the Sun and the fourth-largest in our Solar System

MARS

Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust, which gives the planet its reddish cast

MERCURY

Mercury is the closest planet to the Sun and also the smallest one in our Solar System



JUPITER

Jupiter is the biggest planet in our Solar System and also the fourth-brightest object in the sky

VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot, even hotter than Mercury

SATURN

Saturn is the ringed planet. It's a gas giant, composed mostly of hydrogen and helium





CUSTOMER REVIEWS

"Neptune is the farthest planet from the Sun and the fourth-largest in our Solar System!"

**RICHARD
ROE**

"Despite being red, Mars is a cold place. It's full of iron oxide dust, which gives the planet its reddish cast"

**HELENA
PATTERSON**

TABLE

	ISSUE 1	ISSUE 2	ISSUE 3	ISSUE 4
VENUS	12	32	23	45
MERCURY	67	23	45	65
MARS	67	49	78	34



04

WELCOME!

You can enter here the subtitle if you need it



WELCOME!



MARY RUIZ

Neptune is the farthest planet from the Sun and the fourth-largest in our Solar System



JONATHAN DOE

Mercury is the closest planet to the Sun and the smallest one in our Solar System

JOHN SMITH

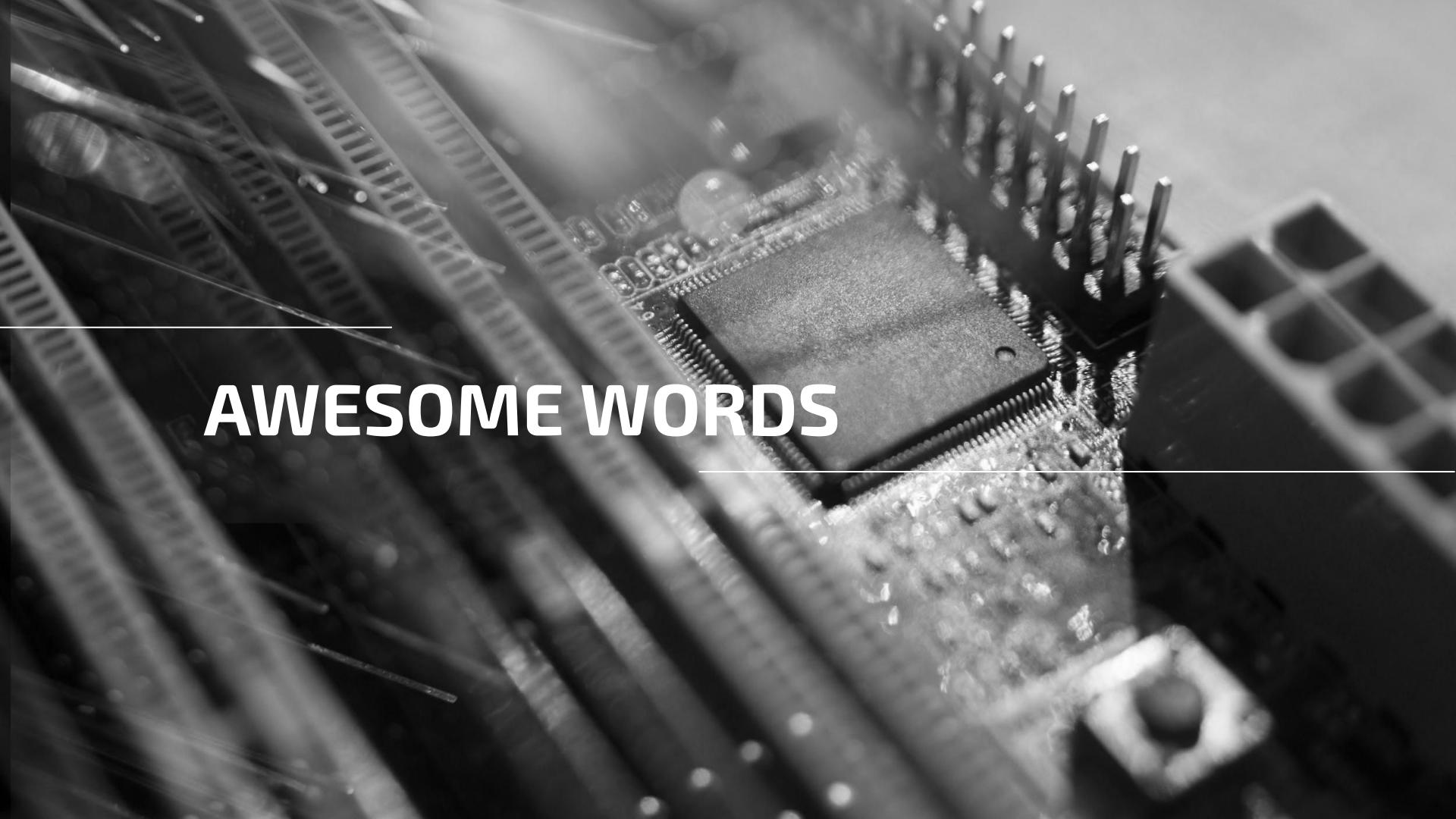
Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust, which gives the planet its reddish cast



MINA HAWKINS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot, even hotter than Mercury





AWESOME WORDS

05

EVENTS

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REVIEW OF PAST EVENTS



Despite being red,
Mars is a cold place,
not hot

JAN 14

FEB 02

MAR 10

APR 16

MAY 30

Mercury is the
closest planet to the
Sun

Saturn is composed
of hydrogen and
helium

Neptune is the
farthest planet from
the Sun

UPCOMING EVENTS

SEP 08

Mercury is the closest planet to the Sun



OCT 16

Despite being red, Mars is a cold place, not hot

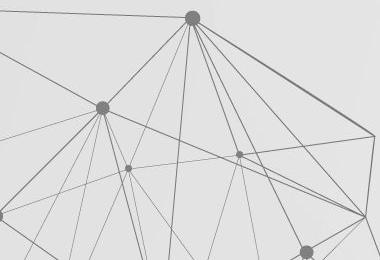


NOV 29

Saturn is composed of hydrogen and helium

DEC 10

Jupiter is the biggest planet in our Solar System

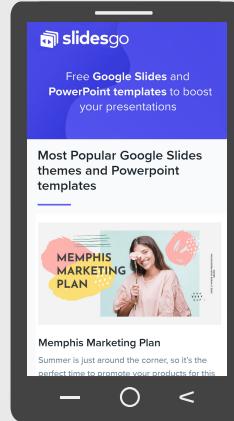
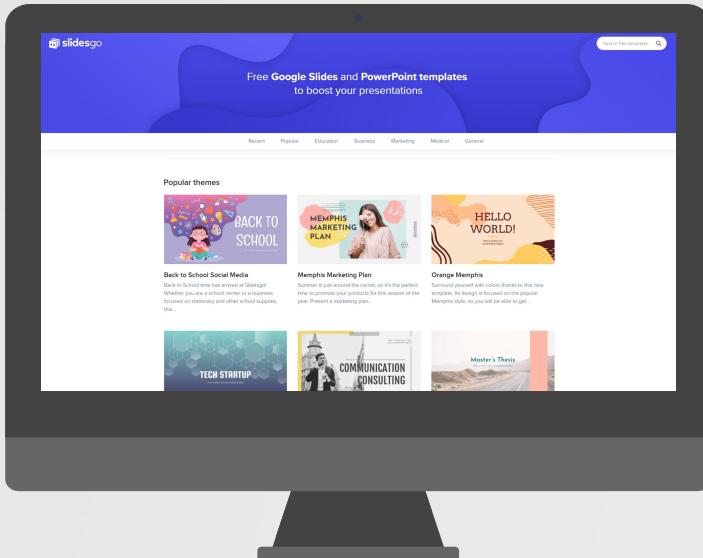
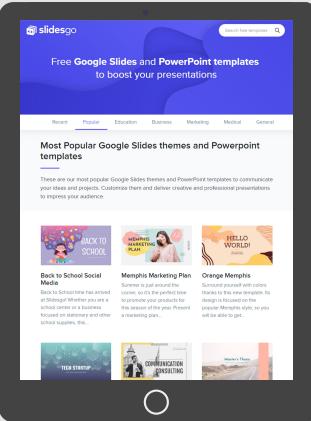


06

SNEAK PEEK

You can enter here the subtitle if you need it

SNEAK PEEK



Neptune is the farthest planet from the Sun and the fourth-largest in our Solar System

RESOURCES

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VECTORS

- Technology background with gradient colors
- Blue 5g concept background
- Abstract landing pages with technology devices

PHOTOS

- Woman using smartphone with hologram
- Happy businesswoman looking at camera with holding pencil and diary
- Portrait of smiling man holding digital tablet looking at camera
- Smiling bearded man holding disposable coffee cup while opening door
- Portrait of pretty woman holding laptop looking at camera
- Motherboard with optical fiber

