



# The Quest for CNCF Ecosystem Security





# CLOUD NATIVE SECURITY **SLAM** AWARDS

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# SPEAKER INTROS

# TODAY'S SPEAKERS



**EDDIE KNIGHT**

OSPO Lead at Sonatype, and maintainer for complimentary security and compliance projects within OpenSSF, CNCF, and FINOS.



**MARINA MOORE**

PhD Candidate at NYU, TAG Security co-chair, and maintainer of TUF



**MICHAEL CRENSHAW**

Staff Software Engineer at Intuit and maintainer of Argo CD



02

# THE VISION

"Open-source projects from **CNCF** and others are built into the core of our Gravity software development platform. We go through a DOD approval process when integrating tools, but **we must also rely on the legion of open-source maintainers** and contributors to ensure that the software is secure at its source."

*Maj Ryan Patrick  
HQ Space Force Digital Program Manager*





# CLOUD NATIVE SECURITY

100+ Members

50+ Organizations

One Goal



# CLOUD NATIVE SECURITY

1

***Protection of cloud native systems***, while providing needed access

2

Common understanding & common tooling to ***help developers meet security requirements***

3

Common tooling for ***audit & reasoning about system properties***



# Our Initiatives



## AWARENESS

Security Guides for New Projects

Cloud Native Security Whitepapers & Audiobooks

Supply Chain Security Whitepapers

Supply Chain Security Catalog

Cloud Native 8

## AWARENESS THROUGH EFFORTS

Security Pals

Self Assessments

Joint Assessments

Security Documentation Templates

## BUILDING OUR COMMUNITY

Collaborations with related groups

Cloud Native Security CTFs

Security Conferences & Villages

Presentations

and many more...

# Open and Secure: Lessons Learned in Five Years of TAG Security Assessments

3:25pm

Justin Cappos, NYU

Andres Vega, M42



# One of Us, One of Us!



- *Check out our prior work*  
→ <https://github.com/cncf/tag-security/blob/main/PUBLICATIONS.md>
- *CNCF Security TAG Mailing List*  
→ <https://lists.cncf.io/g/cncf-tag-security/topics>
- *Join a meeting*  
→ Wednesdays at 10:00am UTC-7 (Weekly) or UTC+0 (Bi-Weekly) via Zoom
- *Chat us in Slack*  
→ <https://slack.cncf.io> → #tag-security

03

# SLAM RECAP



# SECURITY SLAM

Google + sonatype



# BACKGROUND

## SLAM23 ORGANIZERS



EDDIE KNIGHT  
SONATYPE



TIN MATIENZO  
CNCF

# PREPARING FOR SLAM 23

# END USER INTEREST



FEEDBACK

SURVEY



# BACKGROUND

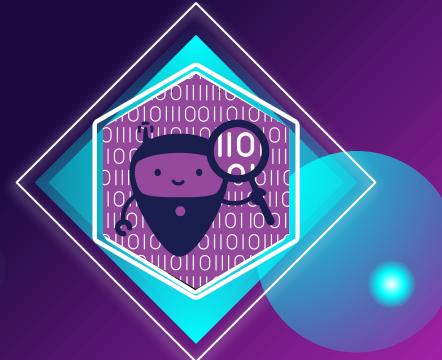
## SLAM23 METRICS

EDDIE KNIGHT - SONATYPE

MICHAEL CRENSHAW - INTUIT

JASON "JM" MERIDITH - PROCORE

MIKE LIEBERMAN - KUSARI



# BACKGROUND

## SLAM23 EDUCATION

**EDDIE KNIGHT - SONATYPE**  
**AARON LINSKENS - SONATYPE**  
**COLIN GRIFFIN - KRUMWARE**

FREE COURSE

### Automating Supply Chain Security: SBOMs...

Dive into the concept of automating security efforts for consuming & delivering software.

Cybersecurity

FREE COURSE

### Securing Projects with OpenSSF Scorecard...

Integrate the OpenSSF Scorecard into your software development life cycle.

Cybersecurity

FREE COURSE

### Security Self- Assessments for Open Sourc...

Learn the processes & approaches you need to advance project security.

Cybersecurity

04

# INSIGHT FROM ARGO

# KEY INGREDIENTS



## CHAMPION

Find someone who is eager to contribute and can coordinate efforts.



## PR MERGER

Make sure maintainers are ready and available to merge fixes and improvements.



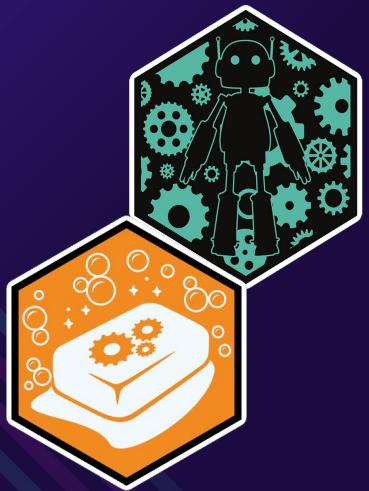
## CELEBRATION!

Tell others about your successes! Post on social media, talk to other maintainers, etc.

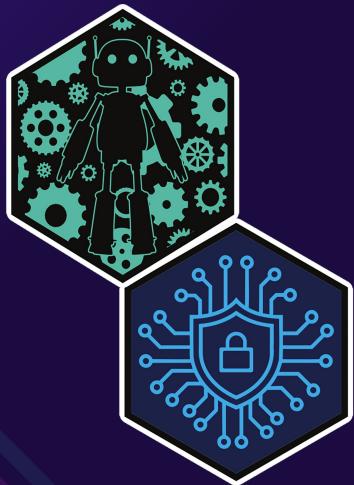


AWARDS TIME

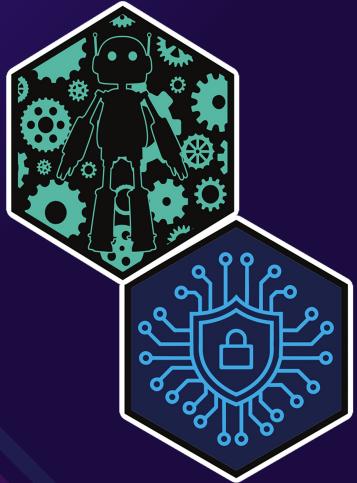
# Jaeger



# Artifact Hub



# K8GB



# CAPSULE



# OpenFGA





# CLOUD NATIVE SECURITY **SLAM** AWARDS

# CONTENTS OF THIS TEMPLATE

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<u>FONTS</u>	To view this template correctly in PowerPoint, download and install the fonts we used
<u>USED AND ALTERNATIVE RESOURCES</u>	An assortment of graphic resources that are suitable for use in this presentation
<u>THANKS SLIDE</u>	You must keep it so that proper credits for our design are given
<u>COLORS</u>	All the colors used in this presentation
<u>ICONS AND INFOGRAPHIC RESOURCES</u>	These can be used in the template, and their size and color can be edited
<u>EDITABLE PRESENTATION THEME</u>	You can edit the master slides easily. For more info, click <a href="#">here</a>

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01

# SECTION HEADER

# TWO IDEAS



## MERCURY

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



## 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

# THREE IDEAS



## JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System. It's the fourth-brightest object in the night sky and was named after the Roman god of the skies



## VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot and its atmosphere is poisonous. It's the second-brightest natural object in the night sky



## SATURN

Saturn is a gas giant and has several rings. Saturn is composed mostly of hydrogen and helium. This planet was named after the Roman god of wealth and agriculture

# FOUR IDEAS

## MARS



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

## VENUS



Venus has a beautiful name and is the second planet from the Sun. It's terribly hot, and its atmosphere is extremely poisonous

## JUPITER



Jupiter is a gas giant and the biggest in the Solar System. It's the fourth-brightest object in the night sky. It was named after a Roman god

## SATURN



Saturn is a gas giant and has several rings. It's composed mostly of hydrogen and helium. It's the sixth planet from the Sun

# SIX IDEAS

## MARS

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

## VENUS

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

## NEPTUNE

Neptune is the farthest planet from the Sun. It's also the fourth-largest planet by diameter in the Solar System

## EARTH

Earth is the third from the Sun and the only one that harbors life in the Solar System. We all live on this planet

## SATURN

Saturn is a gas giant and has several rings. It's composed of hydrogen and helium. It's the sixth planet from the Sun

## JUPITER

Jupiter is a gas giant and the biggest in the Solar System. It's the fourth-brightest object in the night sky

**333,000**

The Sun's mass compared to Earth's

**9h 55m 23s**

Jupiter's rotation period

**386,000 km**

Distance between Earth and the Moon

# 4,498,300

Big numbers catch your audience's attention

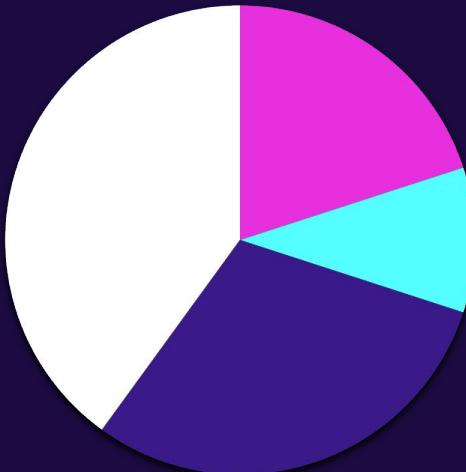
# PIE CHART

● 40% MARS

Despite being red, Mars is cold. It's full of iron oxide dust

● 30% EARTH

Earth is the third from the Sun and the only one that harbors life



● VENUS 20%

Venus has a beautiful name and is the second from the Sun

● JUPITER 10%

Jupiter is a gas giant and the biggest in the Solar System

Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

# TABLE

	TEAM A	TEAM B	TEAM C	TEAM D	TEAM E	TEAM F
MERCURY	XX	XX	XX	XX	XX	XX
MARS	XX	XX	XX	XX	XX	XX
SATURN	XX	XX	XX	XX	XX	XX
VENUS	XX	XX	XX	XX	XX	XX
JUPITER	XX	XX	XX	XX	XX	XX
EARTH	XX	XX	XX	XX	XX	XX
PLUTO	XX	XX	XX	XX	XX	XX

# PRODUCT INFOGRAPHICS

The image shows a smartphone screen with a dark background. At the top left is a small blue dot. Below it, the text "THREE IDEAS" is displayed in white. In the center is a circular icon containing a stylized symbol resembling a hand or a flame. To the right of this icon, the word "VENUS" is written in white. Below "VENUS", there is a block of text in a smaller font: "Venus has a beautiful name and is the second planet from the Sun. It's terribly hot and its atmosphere is poisonous. It's the second-brightest natural object in the night sky". At the bottom of the screen is a small blue bar.



## VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot



## MARS

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



## SATURN

Saturn is a gas giant and has several rings. It's composed mostly of hydrogen and helium

# TIMELINE

## PHASE 1

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

## PHASE 2

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

## PHASE 3

Neptune is the farthest planet from the Sun. It's also the fourth-largest planet by diameter

## PHASE 4

Jupiter is a gas giant and the biggest in the Solar System. It's the fourth-brightest object in the night sky

# ORGANIZATIONAL CHART



FESTIVAL PRODUCER

FESTIVAL DIRECTOR

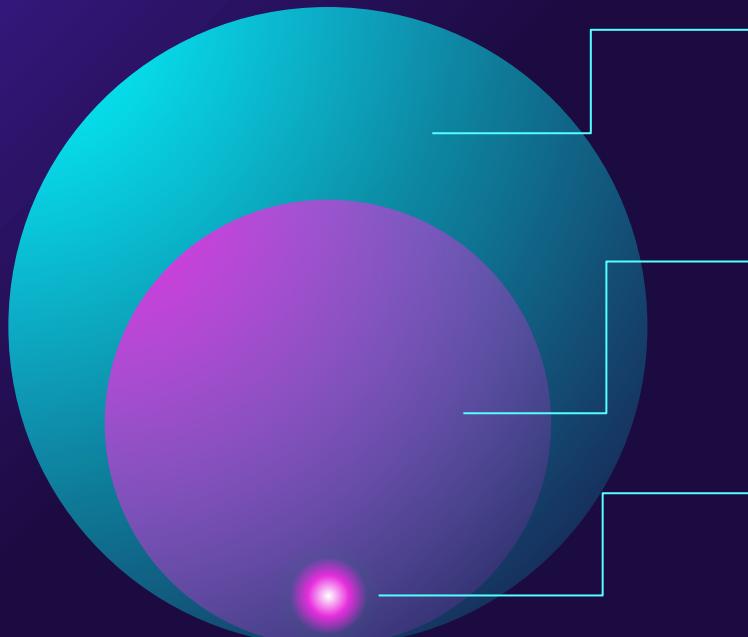
PRODUCTION

CATERING

HOSPITALITY

HEALTHCARE

# MARKET SIZE INFOGRAPHICS



**\$100M NEPTUNE**

Neptune is the farthest planet from the Sun. It's also the fourth-largest planet by diameter in the Solar System

**\$30M JUPITER**

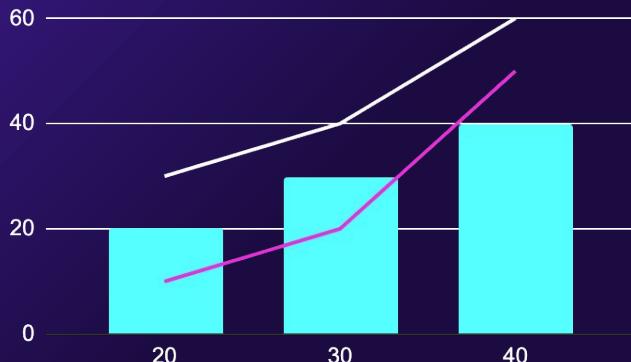
Jupiter is a gas giant and the biggest in the Solar System. It's the fourth-brightest object in the night sky

**\$4M VENUS**

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

# ROADMAP INFOGRAPHICS

# KPI DASHBOARD



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

**\$4,000** **100,000** **7,000**

Mercury is small

Venus is hot

Mars is cold

PRODUCT	COLUMN 1	COLUMN 2	COLUMN 3
ITEM 1	500	2,000,000	40
ITEM 2	1,000	50,750	10
ITEM 3	250	1,500,000	300
ITEM 4	500	2,000,000	40
ITEM 5	1,000	50,750	10
ITEM 6	250	1,500,000	300
ITEM 7	500	2,000,000	40
ITEM 8	1,000	50,750	10

# THANKS

Do you have any questions?

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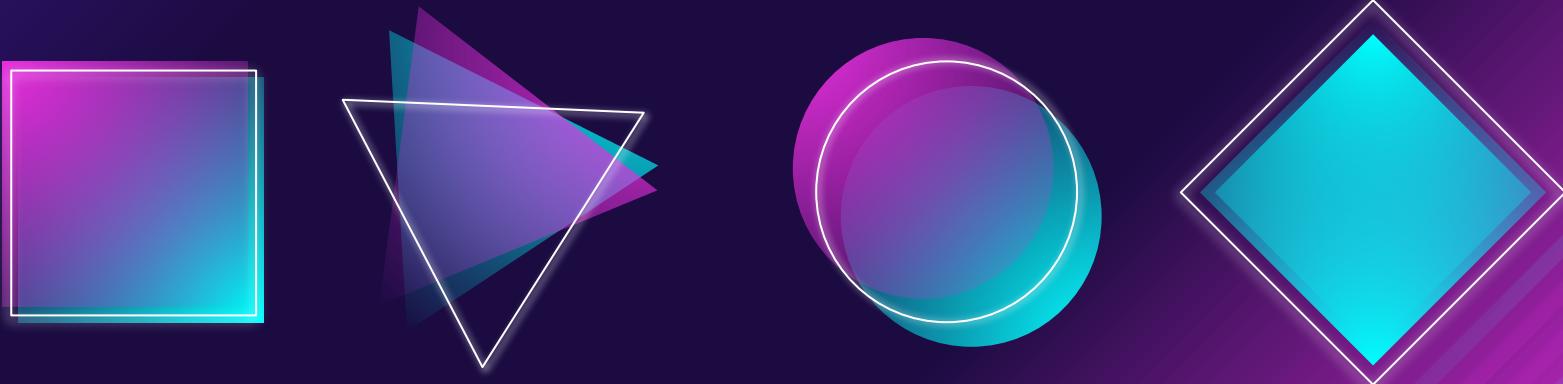
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# ALTERNATIVE RESOURCES

Here's an assortment of alternative resources whose style fits that of this template:

## VECTORS

- Gradient electronic music instagram posts



# RESOURCES

Did you like the resources in this template? Get them for free at our other websites:

## VECTORS

- Gradient electronic music facebook cover

## PHOTOS

- Front view engaged crowd and smiley dj

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(<https://fonts.google.com/specimen/Audiowide>)

**Mulish**

(<https://fonts.google.com/specimen/Mulish>)

#ffffff

#55ffff

#1b0b41

#4821a8

#e82fdde

#1f7a7a

# Storyset

Create your Story with our illustrated concepts. Choose the style you like the most, edit its colors, pick the background and layers you want to show and bring them to life with the animator panel! It will boost your presentation. Check out [how it works](#).



Pana



Amico



Bro



Rafiki



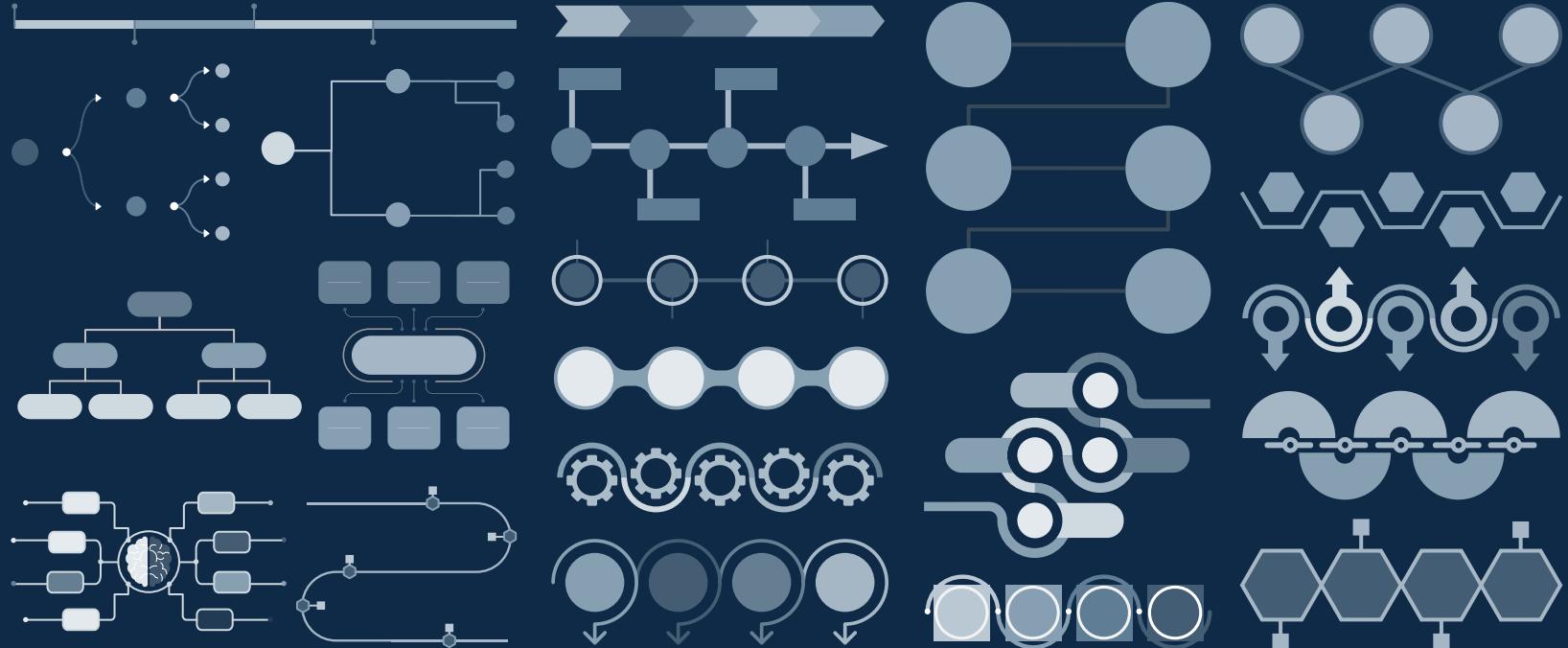
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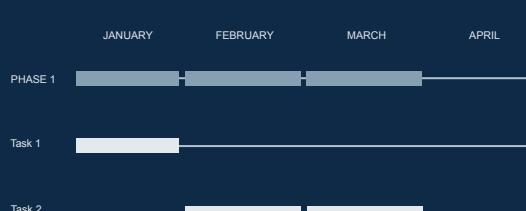
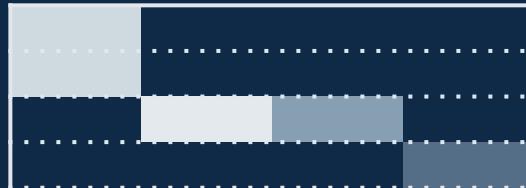
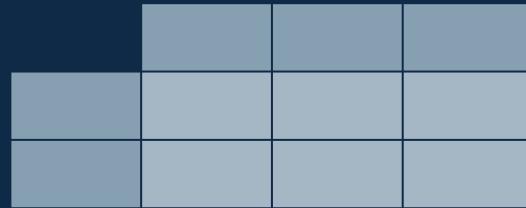
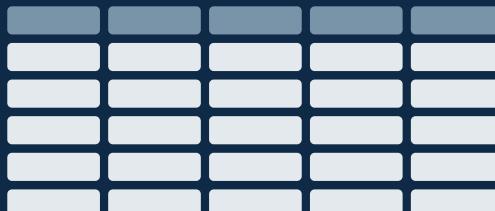
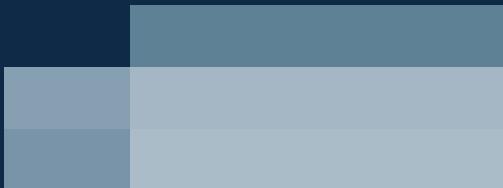
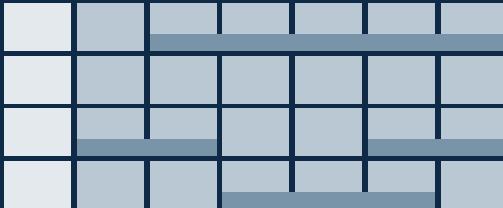
# Use our editable graphic resources...

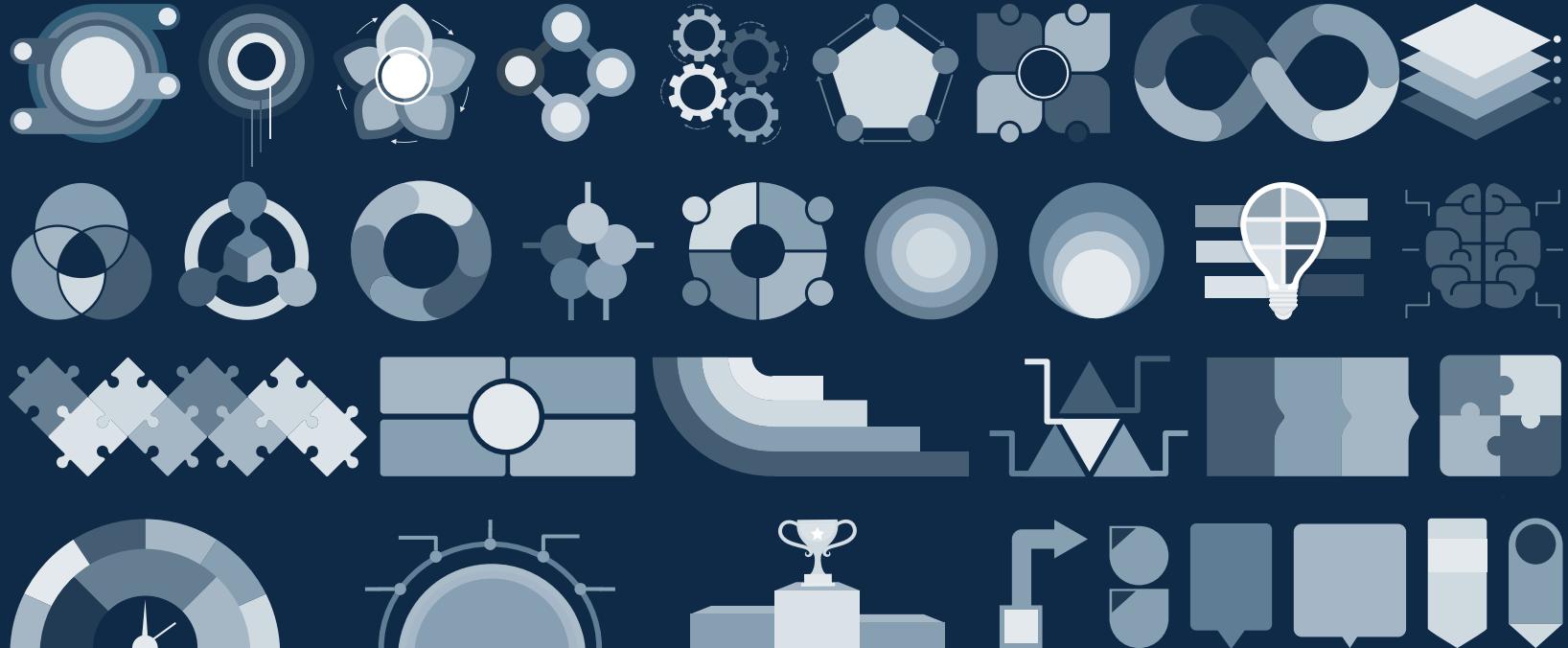
You can easily **resize** these resources without losing quality. To **change the color**, just ungroup the resource and click on the object you want to change. Then, click on the paint bucket and select the color you want. Group the resource again when you're done. You can also look for more **infographics** on Slidesgo.

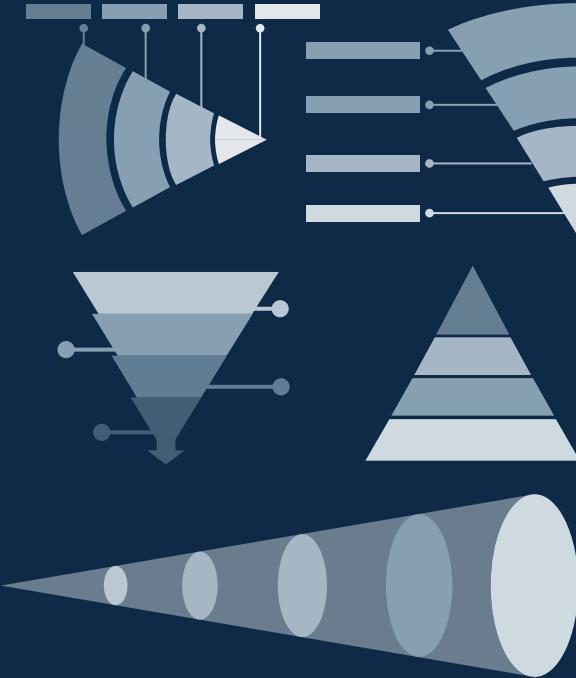
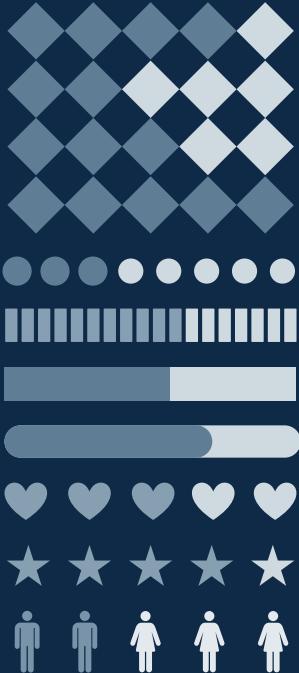
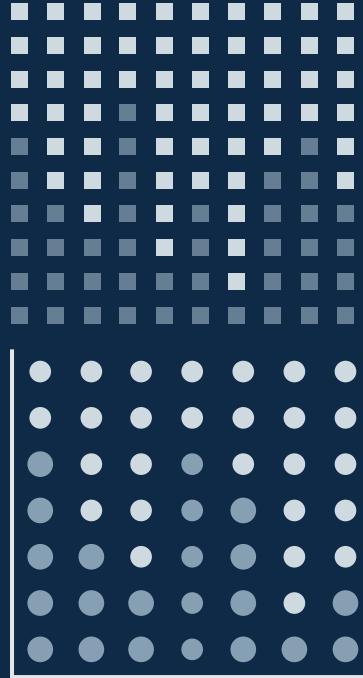












# ...and our sets of editable icons

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You can **change the stroke and fill color**; just select the icon and click on the **paint bucket/pen**.

In Google Slides, you can also use **Flaticon's extension**, allowing you to customize and add even more icons.



## Educational Icons



## Medical Icons



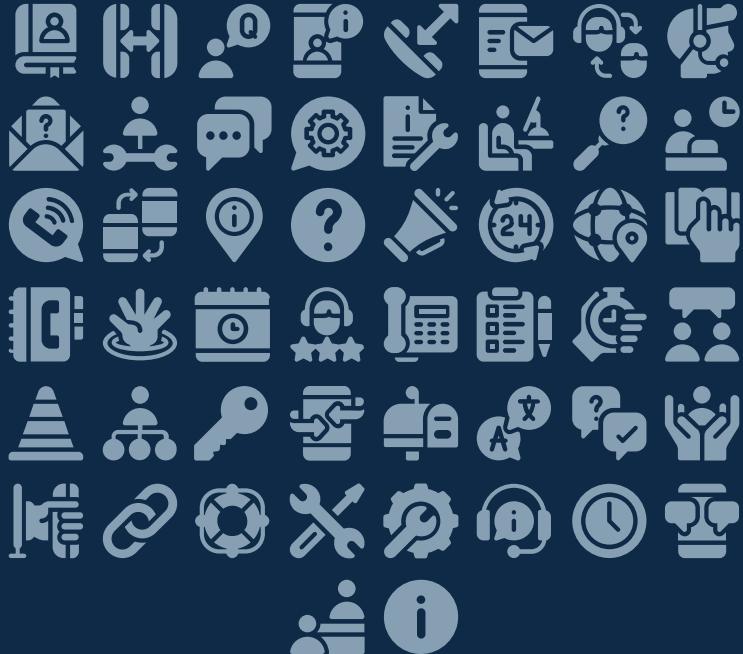
# Business Icons



# Teamwork Icons



# Help & Support Icons



# Avatar Icons



# Creative Process Icons



# Performing Arts Icons



# Nature Icons



# SEO & Marketing Icons

