

Security Tool Demo Presentation

The DAST tool: Arachni

Group 6: Jason Chen, Kaiyu Dong, Allan Liu

Dynamic Application Security Testing

Black box testing

SQL injections

OS command injections

Cross-site scripting

Our project: Arachni

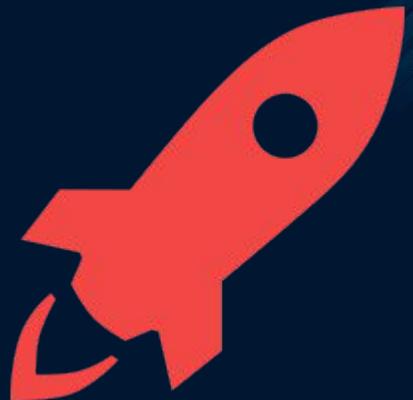
Arachni



Arachni is a feature-full, modular, high-performance Ruby framework aimed towards helping penetration testers and administrators evaluate the security of modern web applications.

Multiple deployment options

- **Ruby library**, for highly-customized, scripted scans.
- **CLI** scanner utility, for quick scans.
- **WebUI**, for multi-User, multi-Scan, multi-Dispatcher management.
- **Distributed** system using remote agents.



Abundance of security checks

All the usual suspects are supported, including:

- XSS (with DOM variants)
- SQL injection
- NoSQL injection
- Code injection
- File inclusion variants
- Many **more...**



Integrated browser environment

- Support for JavaScript/DOM/HTML5/AJAX.
- Detection of DOM-based vulnerabilities.
- Tracing of data and execution flows of DOM and JavaScript environments.
- Extra tracing optimizations for common JavaScript frameworks:
 - **JQuery**
 - **AngularJS**
 - More to come...



High performance

- Asynchronous HTTP requests for lightweight concurrency and fast communications.
- Clustered browser environments for parallel JavaScript/DOM operations.
- Support for multi-Instance scans, utilizing multiple Instances/processes, for super-fast audits.



How to use Arachni

Use the command:

```
arachni http://example.com
```

```
(kda78㉿kali)-[~/arachni-1.6.1.3-0.6.1.1/bin]
$ ./arachni http://example.com
Arachni - Web Application Security Scanner Framework v1.6.1.3
Author: Tasos "Zaptek" Laskos <tasos.laskos@arachni-scanner.com>
```

How to use Arachni

```
[~] http://example.com/
[~] Total: 1
[+] Without issues: 0
[-] With issues: 1 ( 100% )

[~] Arachni is heading towards obsolescence, try out its next-gen successor Ecsyno SCNR:
[~]     https://ecsypno.com/

[~] Report saved at: /home/kda78/arachni-1.6.1.3-0.6.1.1/bin/example.com 2022-10-30 23_18_30 +0000.afr [0.01MB]

[~] Audited 1 page snapshots.

[~] Duration: 00:00:04
[~] Processed 618/618 HTTP requests.
[~] -- 309.279 requests/second.
[~] Processed 0/0 browser jobs.
[~] -- 0 second/job.

[~] Currently auditing      http://example.com/
[~] Burst response time sum 0.34 seconds
[~] Burst response count   15
[~] Burst average response time 0.023 seconds
[~] Burst average          18.702 requests/second
[~] Timed-out requests     0
[~] Original max concurrency 10
[~] Throttled max concurrency 10
```

Running the system from the command line results in a text-based report displayed on the screen.

The background features a dark blue gradient. On the left side, there is a large, abstract graphic element consisting of numerous small, glowing dots arranged in a curved, fan-like shape. The dots transition in color from white to orange to red to blue, creating a rainbow-like effect. The rest of the slide is a solid dark blue.

Thank you











01

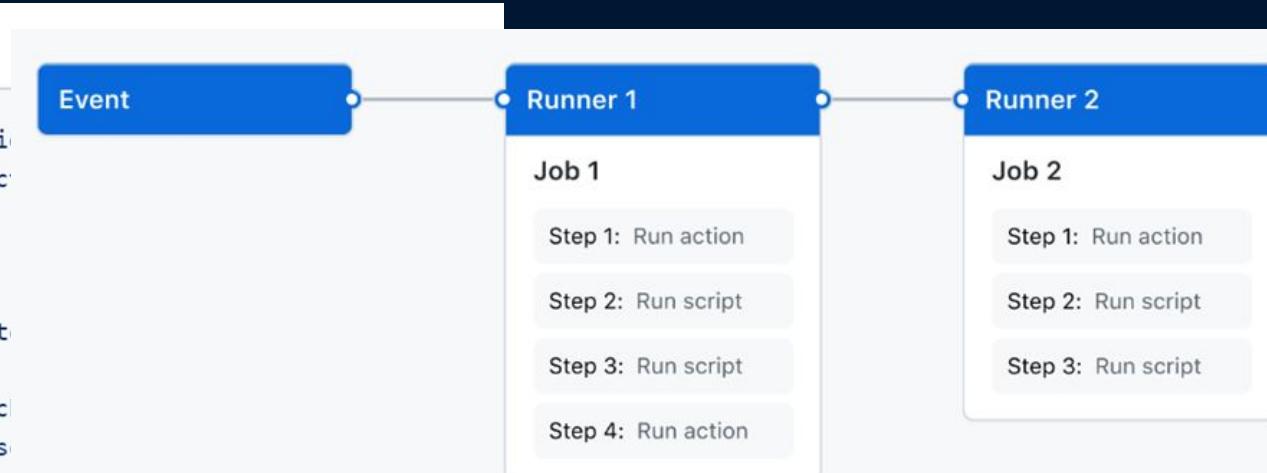
YAML file

YAML

```
name: learn-github-action
run-name: ${{ github.action }}
on: [push]
jobs:
  check-bats-version:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/cross-env@v2
        with:
          node-version: 14
      - run: npm install -g bats
      - run: bats -v
```

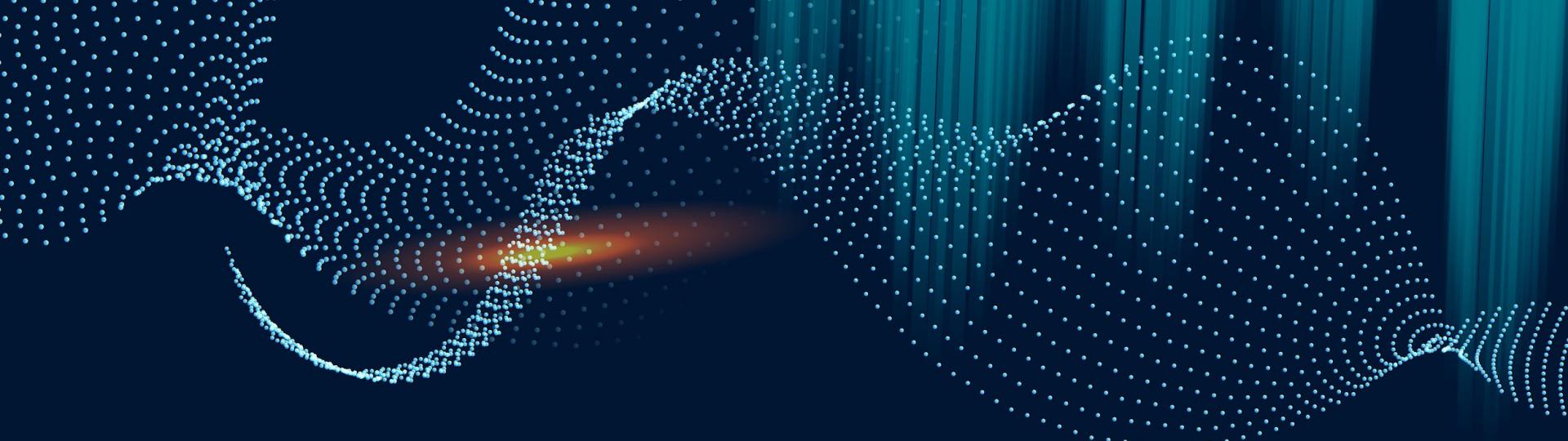
03

SERVICES



**“This is a quote, words
full of wisdom that
someone important said
and can make the reader
get inspired.”**

—Someone Famous



01 | COMPANY

You can enter a subtitle here if
you need it

THE SLIDE TITLE GOES HERE!

Do you know what helps to make your point clear?

Lists like this: one

- They're simple
- You can organize your ideas clearly
- You'll never forget to buy milk!

And the most important thing: the audience won't miss the point of your presentation



MAYBE YOU NEED TO DIVIDE THE CONTENT



MERCURY

Mercury is the closest planet to the Sun and the smallest one

VENUS

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

YOU COULD USE THREE COLUMNS, WHY NOT?



MARS

Despite being red,
Mars is actually a
cold place



JUPITER

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



VENUS

Venus has a very
poisonous
atmosphere

A PICTURE
IS WORTH A
THOUSAND
WORDS





A PICTURE REINFORCES THE CONCEPT

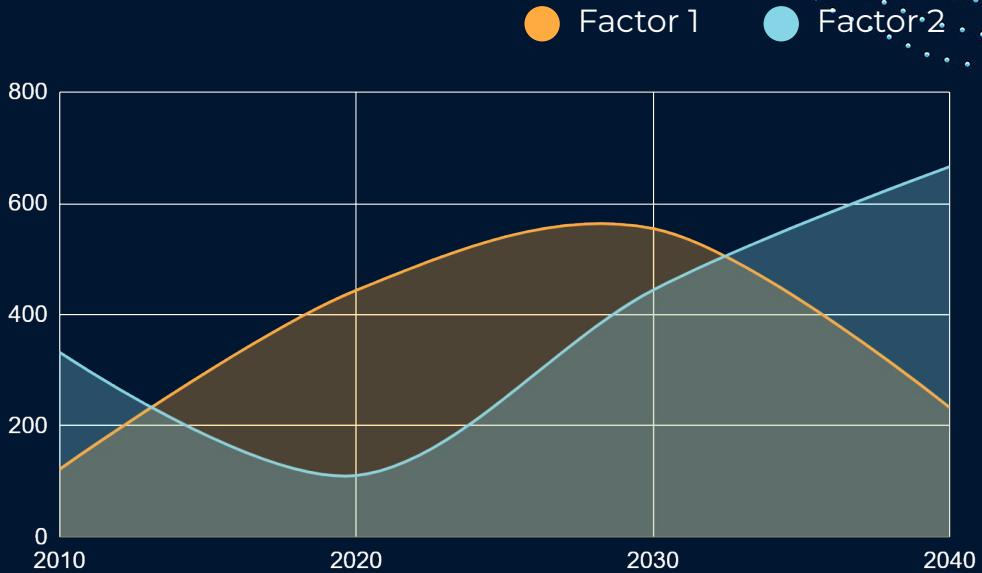
Images reveal large amounts of data, so remember: use an image instead of long texts

AWESOME WORDS

Because key words are great for catching
your audience's attention

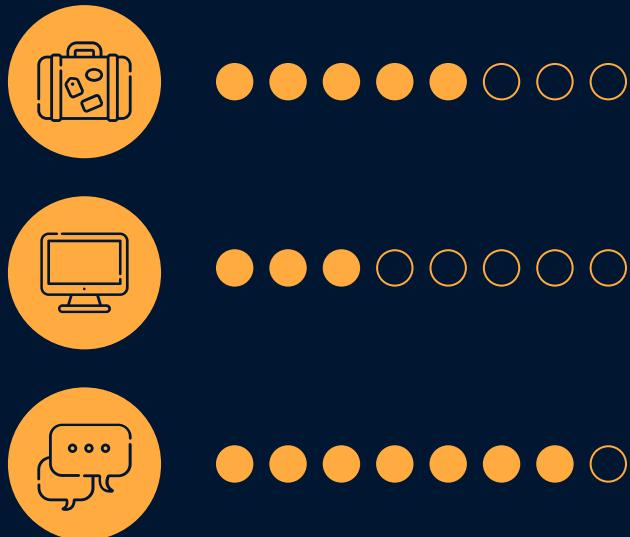
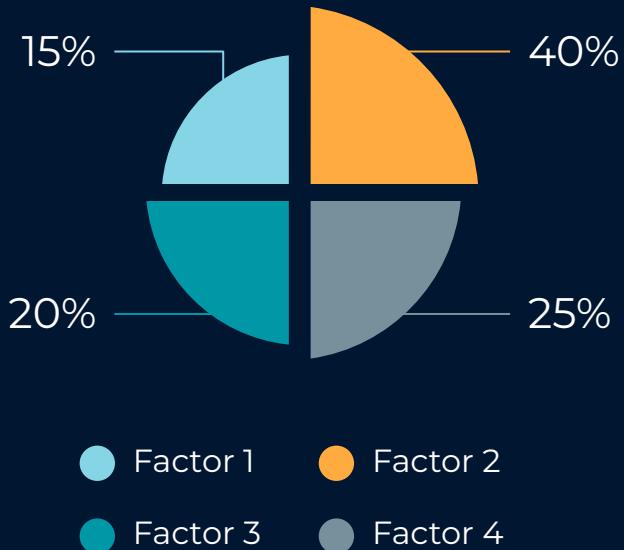


THIS IS A GRAPH!



To modify this graph, click on it, follow the link,
change the data and paste the new graph here

INFOGRAPHICS MAKE YOUR IDEA UNDERSTANDABLE...



**... AND THE SAME GOES
FOR TABLES**

	MASS	DIAMETER	GRAVITY
MERCURY	0.06	0.38	0.38
MARS	0.11	0.53	0.38
SATURN	95.2	9.4	1.16

THIS IS A MAP!



A TIMELINE ALWAYS WORKS WELL

DAY 1

Earth is where
we live on

Jupiter is the
biggest planet

DAY 2

DAY 3

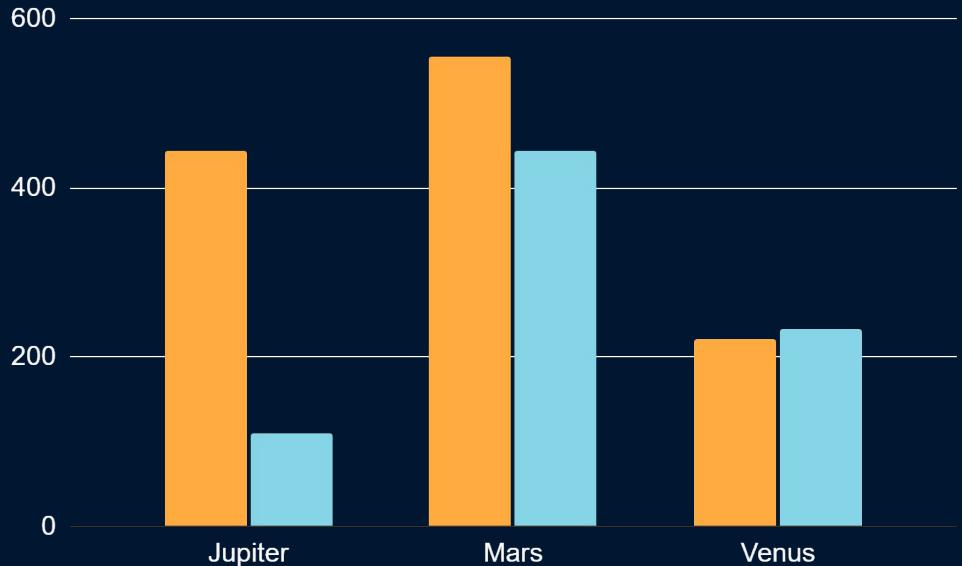
Mars is a cold
place

Venus has a
nice name

DAY 4



DO YOU PREFER THIS GRAPH?



● Factor 1

● Factor 2

To modify this graph,
click on it, follow the
link, change the data
and replace it

300,000

Big numbers catch your
audience's attention

SOMETIMES, COMPARISONS ARE GOOD



CONCEPT 1

- You can define one of the concepts here
- You can define one of the concepts here
- You can define one of the concepts here

CONCEPT 2

- You can define one of the concepts here
- You can define one of the concepts here
- You can define one of the concepts here

DO YOU NEED FOUR COLUMNS?



MARS

Despite being red, Mars is a cold place



MERCURY

Mercury is the closest planet to the Sun



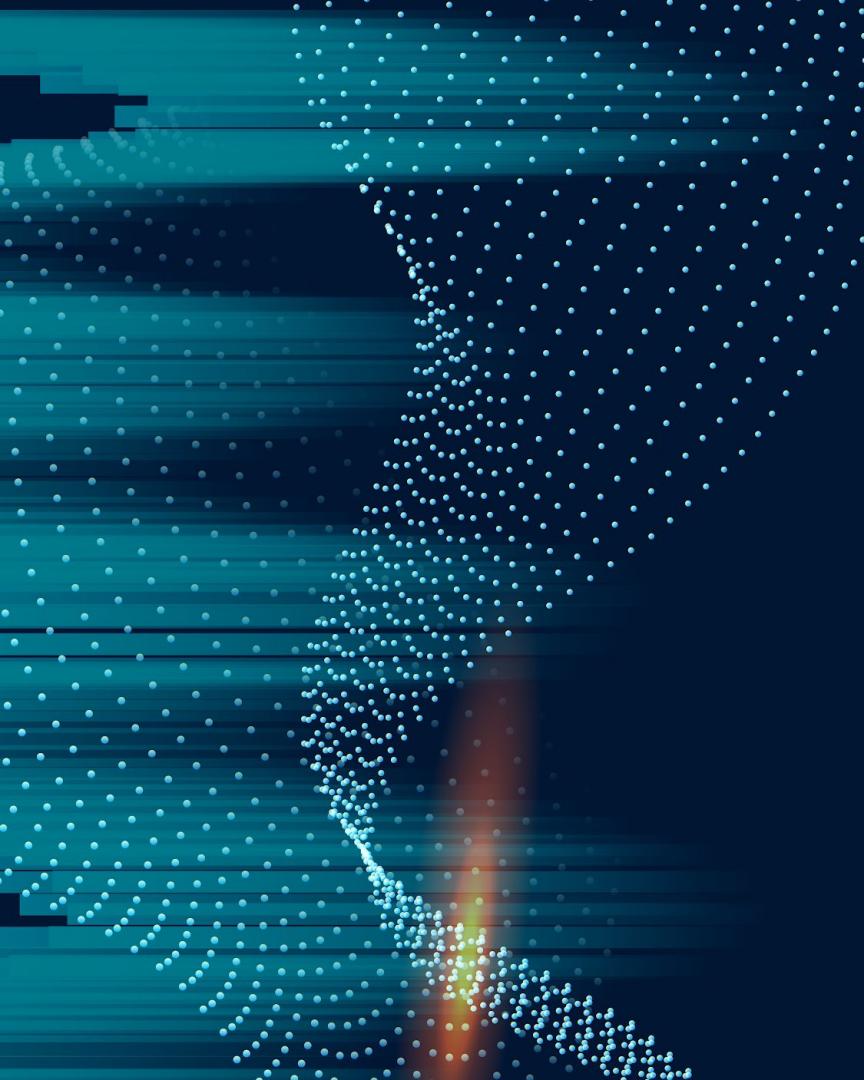
JUPITER

It is the biggest planet in the Solar System



VENUS

Venus has a beautiful name, but it's hot



333,000

Mercury is the smallest planet

245,000

Jupiter is the biggest planet

386,000

Despite being red, Mars is cold

THESE ARE THE PERCENTAGES!

34%

Mars is a cold place

48%

Mercury is the smallest planet

18%

Jupiter is the biggest one

REVIEWING CONCEPTS IS A GOOD IDEA

MERCURY

Mercury is the smallest planet

VENUS

Venus has a beautiful name

MARS

Mars is actually a cold place

JUPITER

It's a gas giant and the biggest one

SATURN

Saturn is the ringed one and a gas giant

NEPTUNE

It's the farthest planet from the Sun

A SUMMARY IS GOOD!

You can use bullet points to talk about the concepts. It is much more visual than a large text

WHAT THEY SAY ABOUT US?

“Mercury is the closest planet to the Sun”

—**SARA BLACK, 19**

“Jupiter is the biggest planet of them all”

—**HELENA PATTERSON, 22**

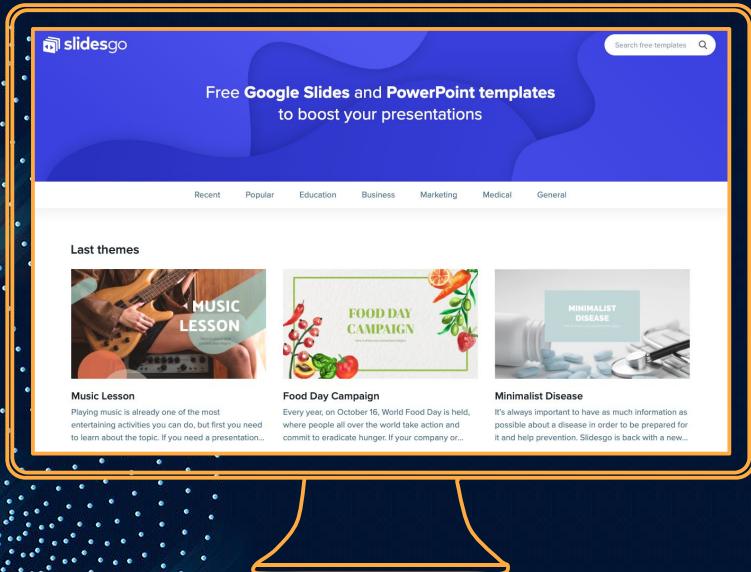
“Despite being red, Mars is actually a cold place”

—**JOHN DOE, 31**

“Venus has a beautiful name, but it’s hot”

—**WILL WHITMAN**

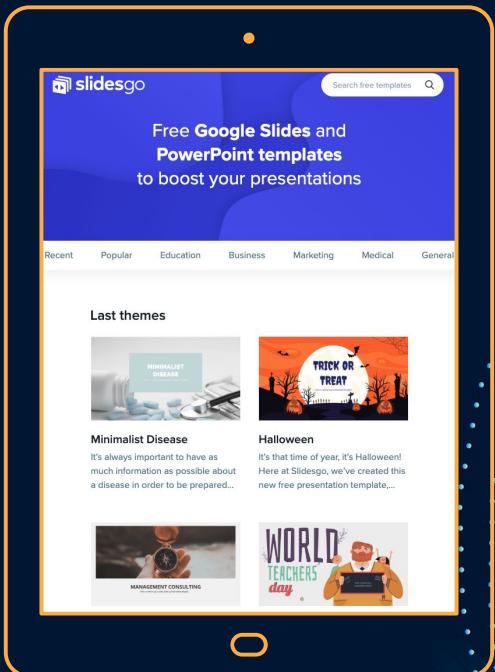
DESKTOP SOFTWARE



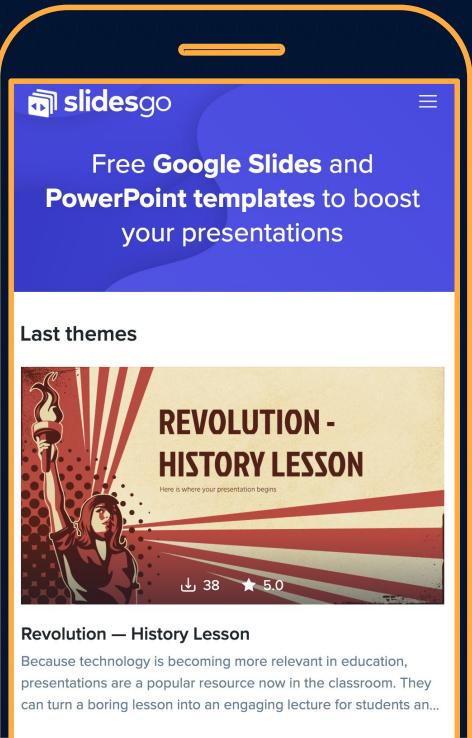
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TABLET APP

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MOBILE WEB



You can replace the image on the screen with your own work. Just delete this one, add yours and center it properly



A GOOD WAY TO END THE PRESENTATION

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

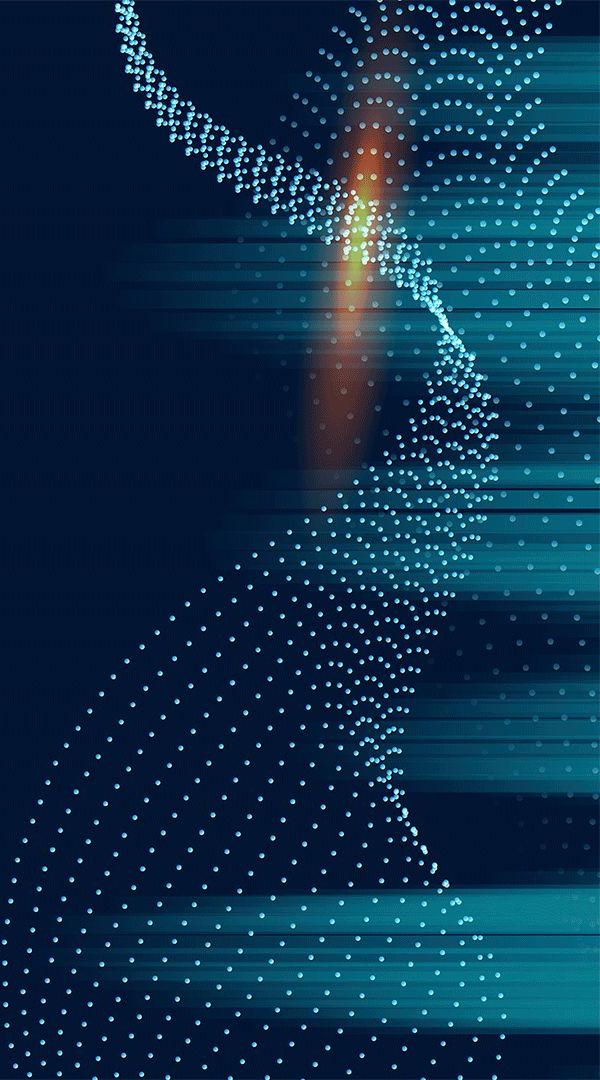
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ALTERNATIVE RESOURCES

PHOTOS:

- Low angle man with virtual reality simulator
- Young man working on an ethernet switch medium shot
- Motherboard with optical fiber cables
- High speed optical fiber with blue light

RESOURCES

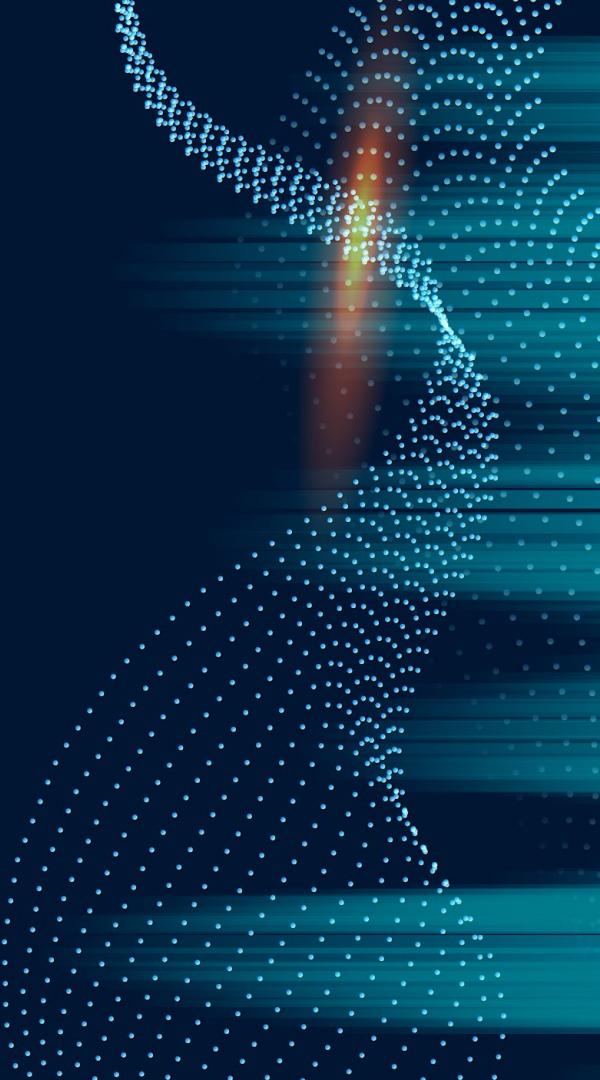
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- Particles background in gradient

PHOTOS:

- Skyscrapers with sunlight
- Vivid girl in vr headset having fun



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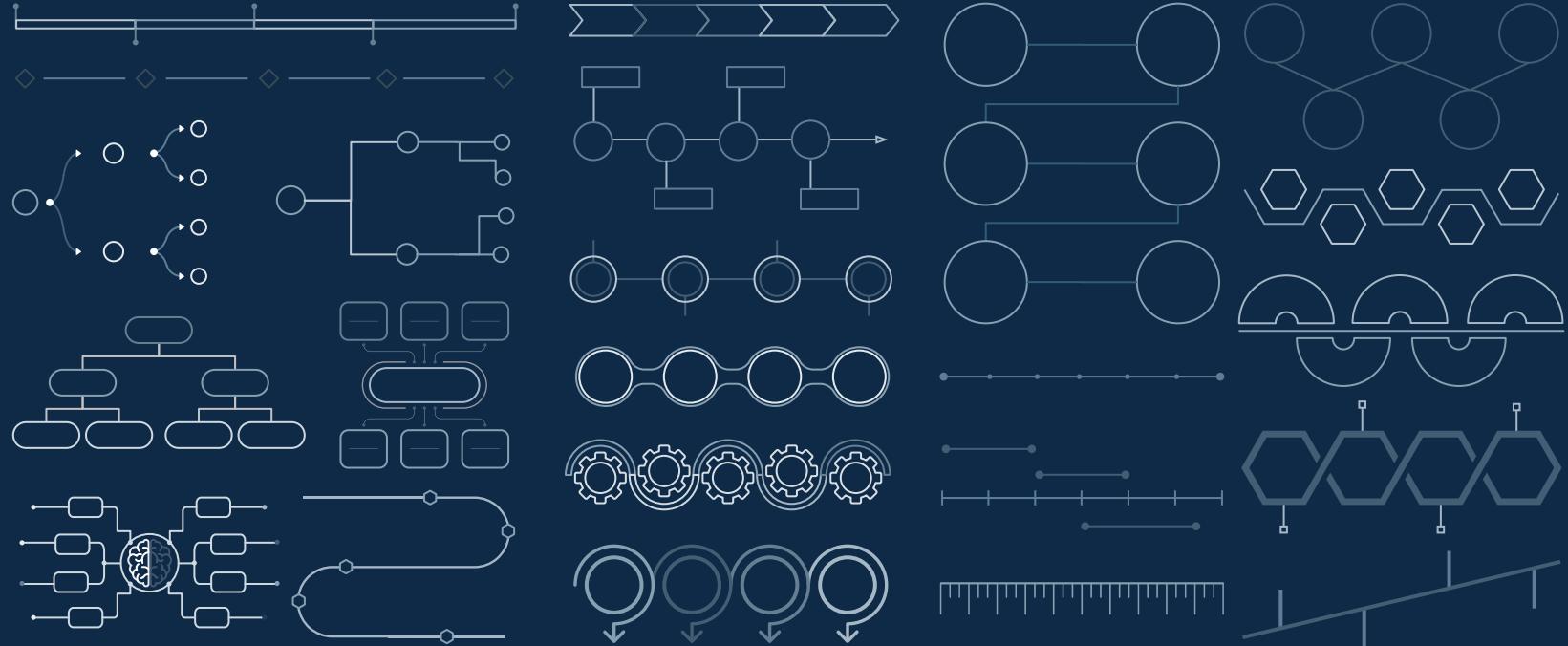
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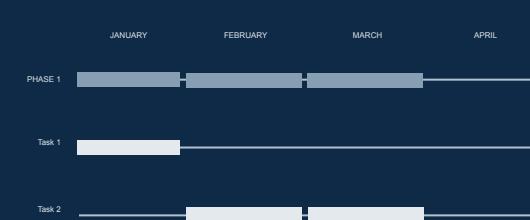
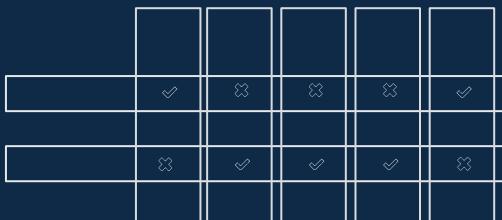
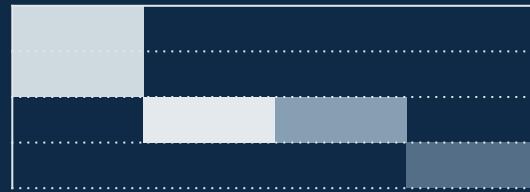
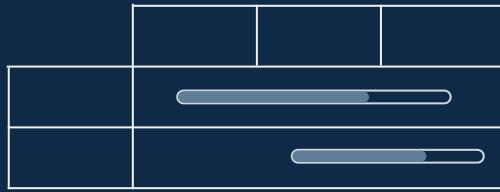
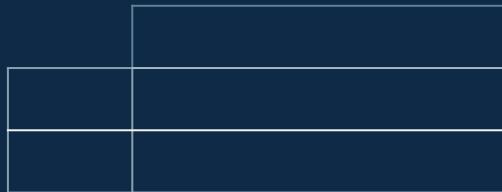
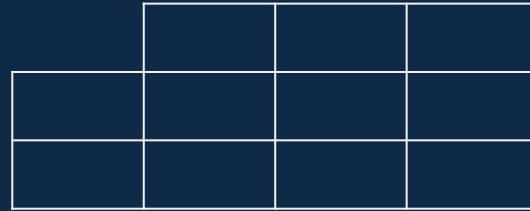
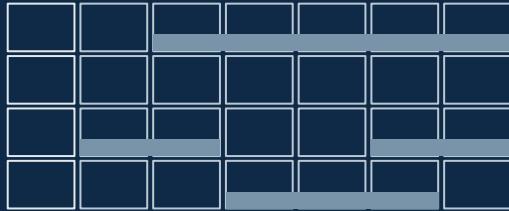
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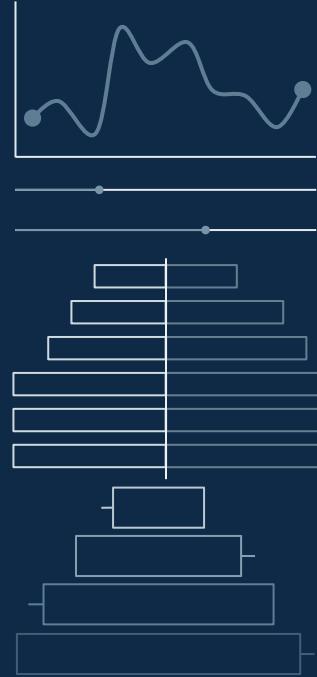
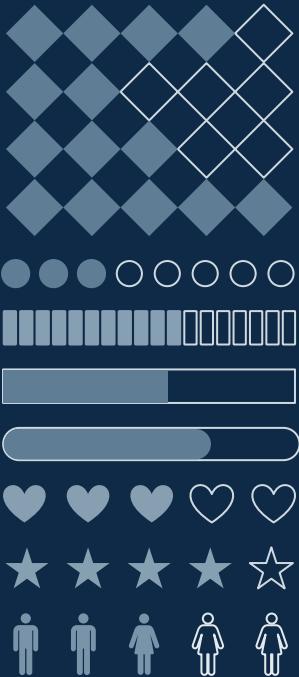
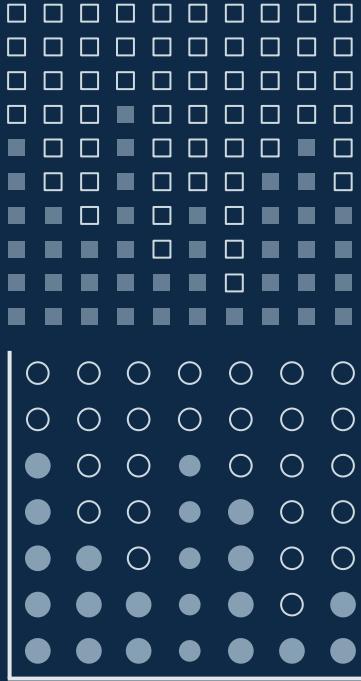












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