



MongoDB Installation

5 Tools
required

Introduction to MongoDB

1. MongoDB is a NoSQL database which stores the data in form of key-value pairs.
2. It is an Open Source, Document Database which provides high performance and scalability along with data modelling and data management of huge sets of data in an enterprise application.
3. MongoDB also provides the feature of Auto-Scaling.
4. MongoDB is a cross platform database
5. A Document is nothing but a data structure with name-value pairs like in JSON.
6. It is very easy to map any custom Object of any programming language with a MongoDB Document.
7. Document for Student in MongoDB will be like:

```
{  
    name : "Stduytonight",  
    rollno : 1,  
    subjects : ["C Language", "C++", "Core Java"]  
}
```

Installation

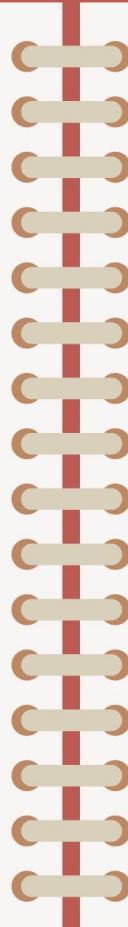


1. Mongodb

mongodb community server
<https://www.mongodb.com/try/download/community>

2.Xampp

<https://www.apachefriends.org/index.html>



3.PECL

PHP Extension Community Library
<https://pecl.php.net/package/mongodb>

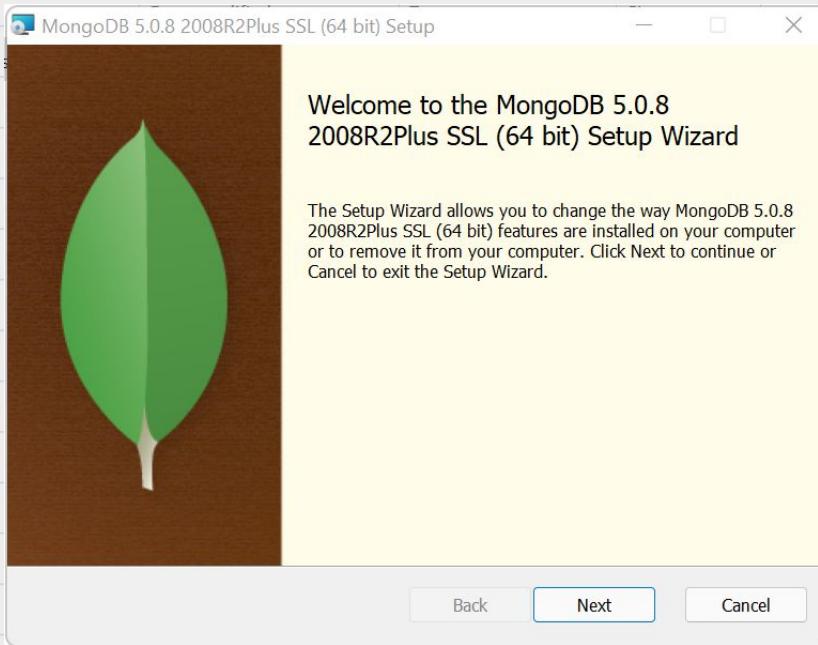
4.composer

Dependency Manager for PHP
<https://getcomposer.org/>

5.Mongodb:drivers

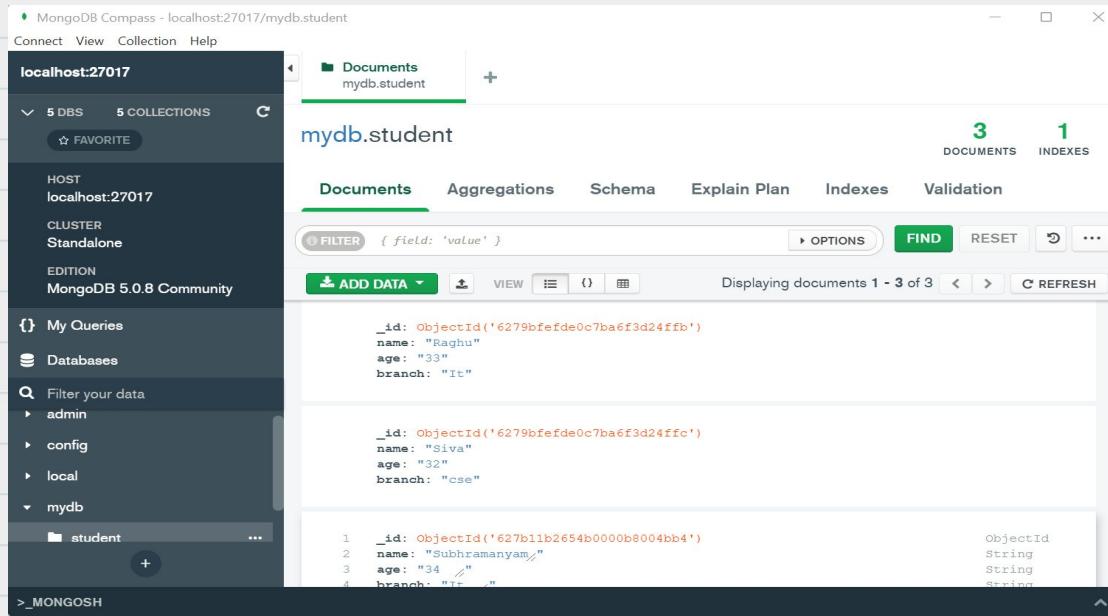
Cmd : composer require
mongodb/mongodb

Mongodb installation



After successful installation we need to see mongodb compass

Ide for Mongodb



After Xampp installation we need to check

1.phpversion 2.architecture 3.thread safe enable

For that we need open phpinfo

Url: <http://localhost/dashboard/phpinfo.php>

PHP Version 7.3.28	
System	Windows NT DESKTOP-CM6LQVK 10.0 build 22000 (Windows 10) AMD64
Build Date	Apr 27 2021 17:12:02
Compiler	MSVC15 (Visual C++ 2017)
Architecture	x64
Configure Command	<pre>script/make/le/jscript configure --enable-snapshot-build --enable-debug-pack --with-pdo-oci=c:/php-snap-builddeps_au/oracle/v64/instantclient_12_1/sdk/shared --with-pdo-12=c:/php-snap-builddeps_au/oracle/v64/instantclient_12_1/sdk/shared --enable-object-out-dir=..obj --enable-com-donet-shared --without-analyzer --with-png</pre>
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	no value
Loaded Configuration File	C:\xampp\php\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20180731
PHP Extension	20180731
Zend Extension	320180731
Zend Extension Build	API20180731_TS_VC15
PHP Extension Build	API20180731_TS_VC15
Debug Build	no
Thread Safety	enabled 3

Based on above phpinfo we need to download php extensions to mongodb

URL : <https://pecl.php.net/package/mongodb>

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Top Level :: Database :: mongodb :: 1.7.4 :: Windows

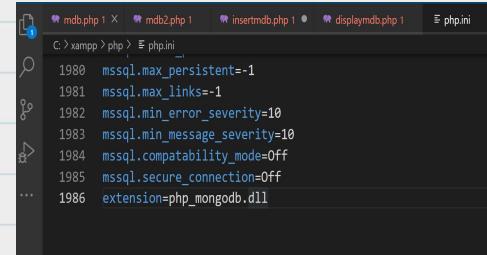
mongodb 1.7.4 for Windows

Package Information	
Summary	MongoDB driver for PHP
Maintainers	Jeremy Mikola (lead) [details] Katherine Walker (developer) [details] Andreas Braun (lead) [details] Derick Rethans < derick@php.net > (lead) [wishlist] [details] Hannes Magnusson < bjori@php.net > (lead) [details]
License	Apache License
Description	The purpose of this driver is to provide exceptionally thin glue between MongoDB and PHP, implementing only fundamental and performance-critical components necessary to build a fully-functional MongoDB driver.
Homepage	http://docs.mongodb.org/ecosystem/drivers/php/
Release notes Version 1.7.4 (stable)	** Bug * [PHPC-1560] - MongoDB compile fails due to missing openssl

DLL List	
PHP 7.4	7.4 Non Thread Safe (NTS) x64 7.4 Thread Safe (TS) x64 7.4 Non Thread Safe (NTS) x86 7.4 Thread Safe (TS) x86
PHP 7.3	7.3 Non Thread Safe (NTS) x64 7.3 Thread Safe (TS) x64 7.3 Non Thread Safe (NTS) x86 7.3 Thread Safe (TS) x86
PHP 7.2	7.2 Non Thread Safe (NTS) x64 7.2 Thread Safe (TS) x64 7.2 Non Thread Safe (NTS) x86

Adding Mongodb extension to php

1. Find `php_mongodb.dll` from `download.war` file
2. Copy and paste it in following path `C:\xampp\php\ext`
3. Open `php.ini` file in path `C:\xampp\php\`
4. Add following line `extension=php_mongodb.dll` and save



```
1980 mssql.max_persistent=-1
1981 mssql.max_links=-1
1982 mssql.min_error_severity=10
1983 mssql.min_message_severity=10
1984 mssql.compatibility_mode=Off
1985 mssql.secure_connection=Off
1986 extension=php_mongodb.dll
```

After successful adding extension of mongodb we need to see Mongodb drivers info in php

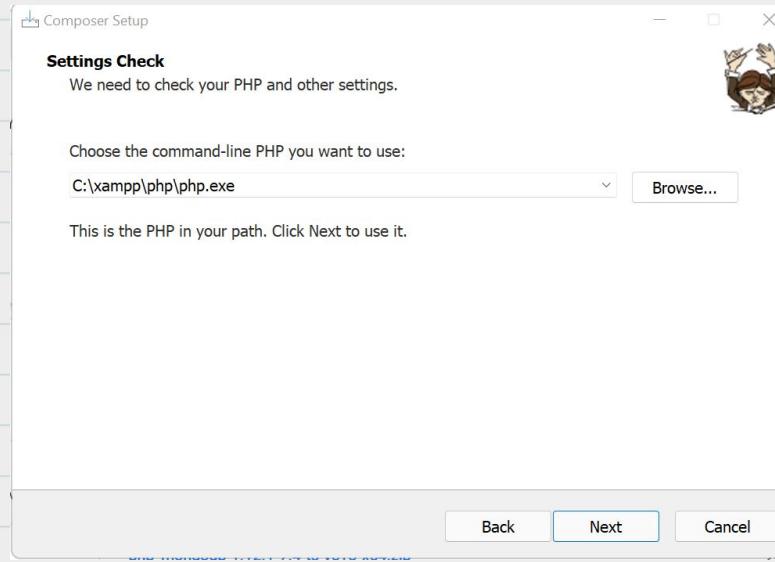
For that we need open phpinfo

Url: <http://localhost/dashboard/phpinfo.php>

mongodb		
MongoDB support	enabled	
MongoDB extension version	1.7.4	
MongoDB extension stability	stable	
libbson bundled version	1.16.2	
libmongoc bundled version	1.16.2	
libmongoc SSL	enabled	
libmongoc SSL library	OpenSSL	
libmongoc crypto	enabled	
libmongoc crypto library	libcrypto	
libmongoc crypto system profile	disabled	
libmongoc SASL	enabled	
libmongoc ICU	disabled	
libmongoc compression	disabled	
libmongocrypt bundled version	1.0.3	
libmongocrypt crypto	enabled	
libmongocrypt crypto library	libcrypto	
Directive	Local Value	Master Value
mongodb.debug	no value	no value

We need to download composer and install

During installation we need to specify the path of
php.exe



By using composer we need to download mongodb drives

CMD:composer require mongodb/mongodb

1. Above command should be executed in the root directory of your project

Ex: "c:/xampp/htdocs/crud"

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.613]
(c) Microsoft Corporation. All rights reserved.

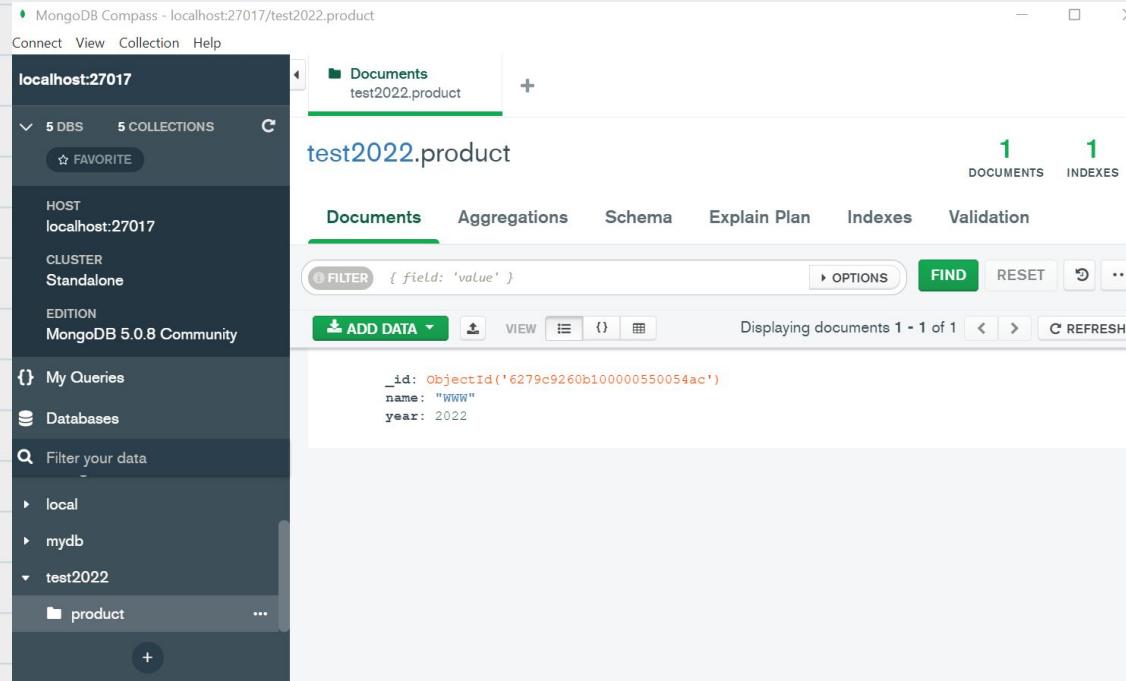
::\xampp\htdocs\crud>composer require mongodb/mongodb
Info from https://repo.packagist.org: #StandWithUkraine
Using version ^1.6 for mongodb/mongodb
./composer.json has been created
running composer update mongodb/mongodb
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
- Locking mongodb/mongodb (1.6.1)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
- Downloading mongodb/mongodb (1.6.1)
- Installing mongodb/mongodb (1.6.1): Extracting archive
Generating autoload files

::\xampp\htdocs\crud>exit
```

After successful installing following code will works

```
<?php
    require './vendor/autoload.php';
    $con = new MongoDB\Client('mongodb://localhost:27017/');
    //var_dump($con);
    $db=$con->test2022;
    $coll=$db->product;
    // $coll->insertOne(["name"=>"WWW", "year"=>2022]);
    $cursor = $coll->find();
    // iterate cursor to display title of documents
    foreach ($cursor as $document) {
        echo $document["name"] . "\n";
        echo $document["year"] . "\n";
    }
?>
```

Compass output



Output



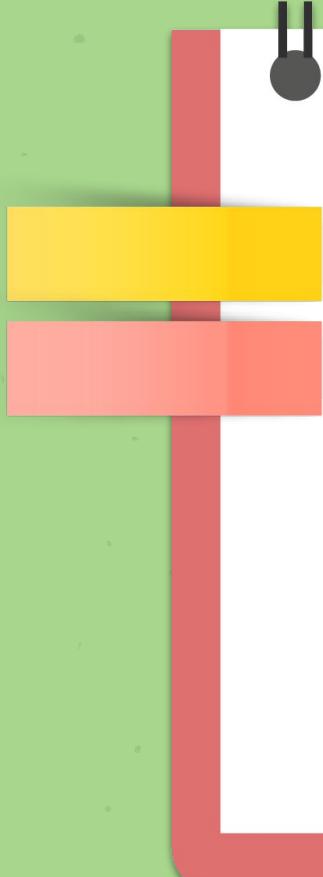
← → C ⓘ localhost/crud/mdb2.php

_apps Apps ⚡ Developing A Whit... ⚡ eMailman(sm) -- Pu... ⚡ And...

WWW 2022

A photograph of three young adults outdoors. On the left, a woman with long brown hair, wearing a white button-down shirt over a white t-shirt, is reaching up to give a high-five to a man in the center. The man, wearing a red, white, and blue plaid shirt over a white t-shirt, is smiling broadly. On the right, a woman with dark brown hair, wearing a similar plaid shirt over a white t-shirt, is sipping from a white paper cup with a black straw. They appear to be sitting on a bench or ledge. A yellow sticky note is overlaid on the upper right side of the image, containing the text.

*Installation
completed*



OVERVIEW

You can enter a subtitle
here if you need it

Introduction

Neptune is the farthest planet from the Sun and also the fourth-largest by diameter in the entire Solar System



What is this topic about?

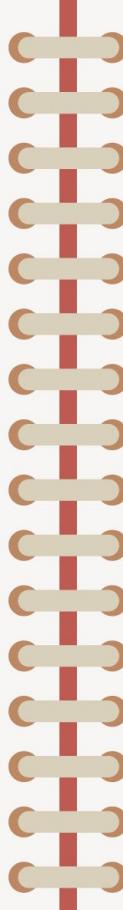


You can replace this
picture if you wish

Definition of concepts

Mercury

Mercury is the smallest planet



Mars

Despite being red, Mars is a cold place

Saturn

It's composed of hydrogen and helium

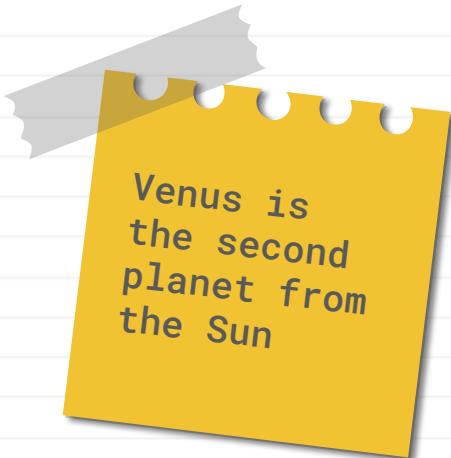


Venus

Venus is the second planet from the Sun



Features of the topic



Mercury

It's the closest planet to the Sun



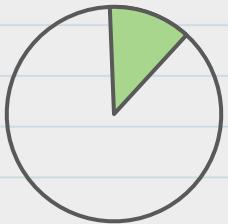
Jupiter

Jupiter is the biggest planet



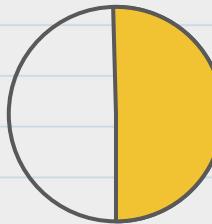
Mars

Mars is actually a cold place



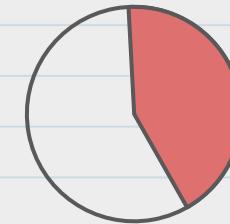
10%

Despite being red,
Mars is a cold
place



50%

Saturn is the only
planet with rings



40%

Venus has a
beautiful name,
but it's hot

Practical uses of this subject



Venus is
the second
planet from
the Sun

Mercury



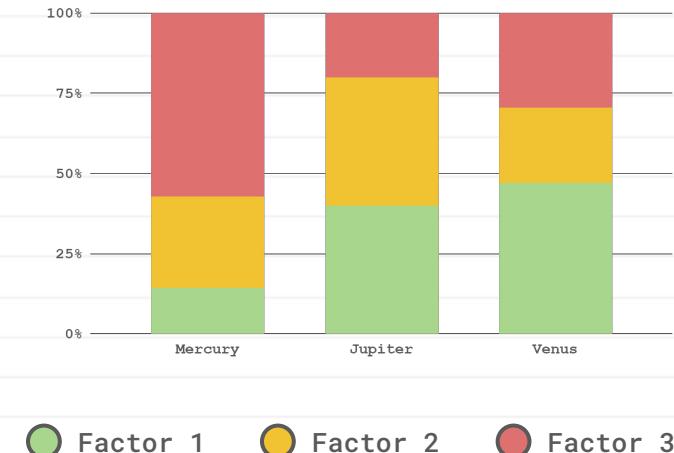
Mercury is the
closest planet
to the Sun

Jupiter

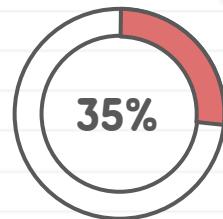


Jupiter is the
biggest planet
of them all

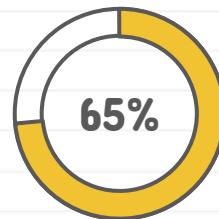
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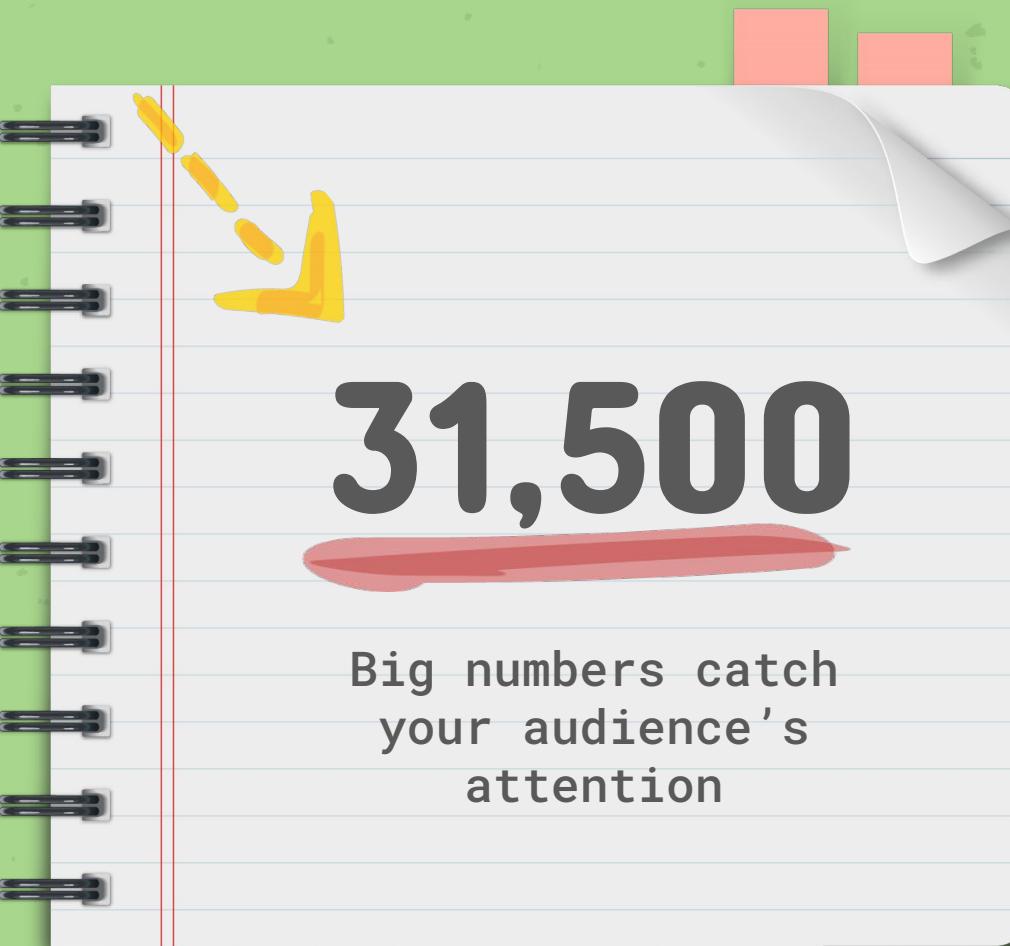
To modify this graph, click on it, follow the link, change the data and replace this



Mercury is a
small planet



Jupiter is a
big planet

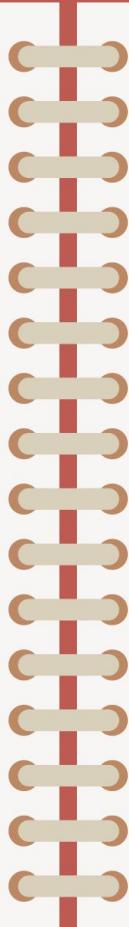


Big numbers catch
your audience's
attention



Problem

Neptune is the fourth-largest planet in the Solar System



Solution

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

Process

Mercury is the
smallest planet

Saturn is the
ringed planet

Step 1

Step 2

Step 3

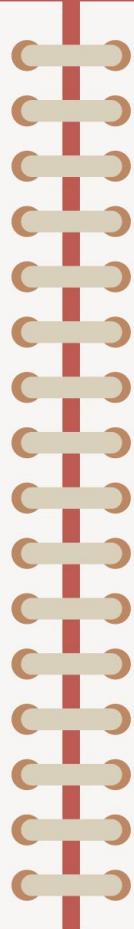
Step 4

Venus has a
beautiful name

Mars is a very
cold place

Insert your multimedia content here

Despite being red,
Mars is actually a
cold place full of
iron oxide dust

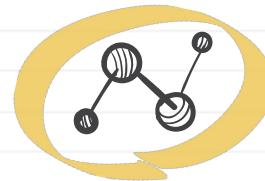
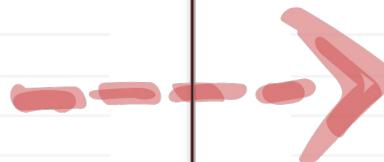


Overview diagram



Mercury is a
small planet

Venus is a
hot planet



Mars is a
cold place

Only Saturn
has rings

Locations



 Saturn is a
gas giant

 Mars is a
cold place

A photograph of three young adults outdoors. On the left, a girl with long brown hair, wearing a white button-down shirt, is high-fiving a boy in the center. The boy has short brown hair and is wearing a red, white, and blue plaid shirt over a white t-shirt; he is smiling broadly. On the right, another girl with dark brown hair, wearing a similar plaid shirt, is sipping from a white coffee cup with a black straw. They appear to be sitting on a bench or ledge. In the background, there's a large wooden door and some greenery.

A picture
reinforces
the concept

Data review

Study 1	Study 2	Study 3
0.3	1.2	4.5
1.4	0.6	7.8

Study 1	Study 2	Study 3
2.5	6.9	1.6
3.5	7.7	1.8

Review of concepts

Mercury

Mercury is the
Smallest planet

Venus

Venus has a
beautiful name

Mars

Mars is actually
a cold place

Jupiter

Jupiter is the
biggest planet

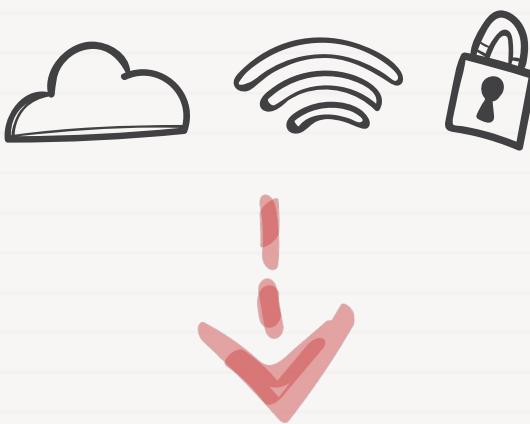
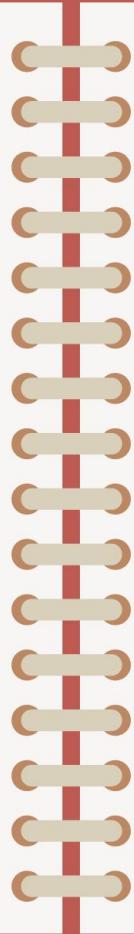
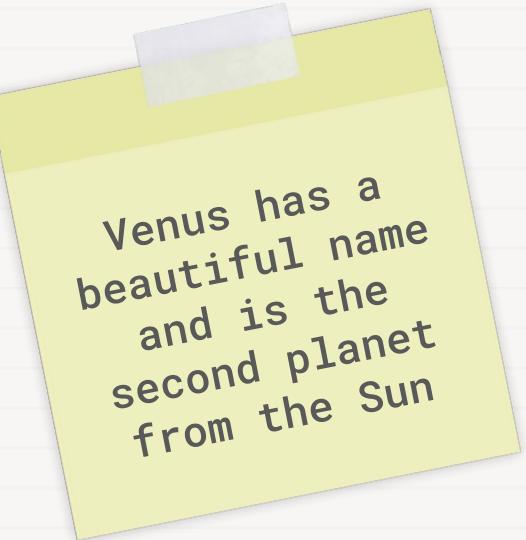
Saturn

Saturn is the
ringed one

Neptune

Neptune is very
far from us

Exercise



Despite being red,
Mars is actually a
cold place

Assignment

Which planet
has a beautiful
name and is the
second one from
the Sun

?

Thanks!

Do you have any
questions?

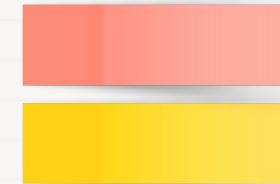
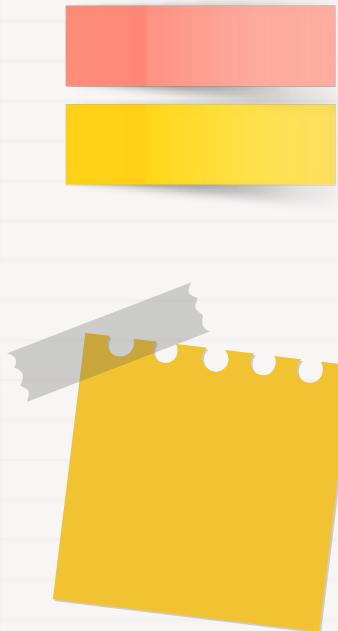
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- Content youngster enjoying time
- Teenage student sitting at table with notebook and writing

- Side view woman working on laptop
- Female teenager reading book in cafe near friends
- Happy teen girl at lesson
- Girl on armchair reading
- Crop student writing in notepad

Resources

VECTORS:

- Wooden background with checklist and pen
- Open notebook with accessories
- Notebook page vector
- Collection of leaves and colored notes
- Tablet background with hand-drawn learning items

- Schedule with nice notes
- sets of paper with sticky tape
- Assortment of arrows highlighter
- Pack of small sticky notes in realistic style

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Bro



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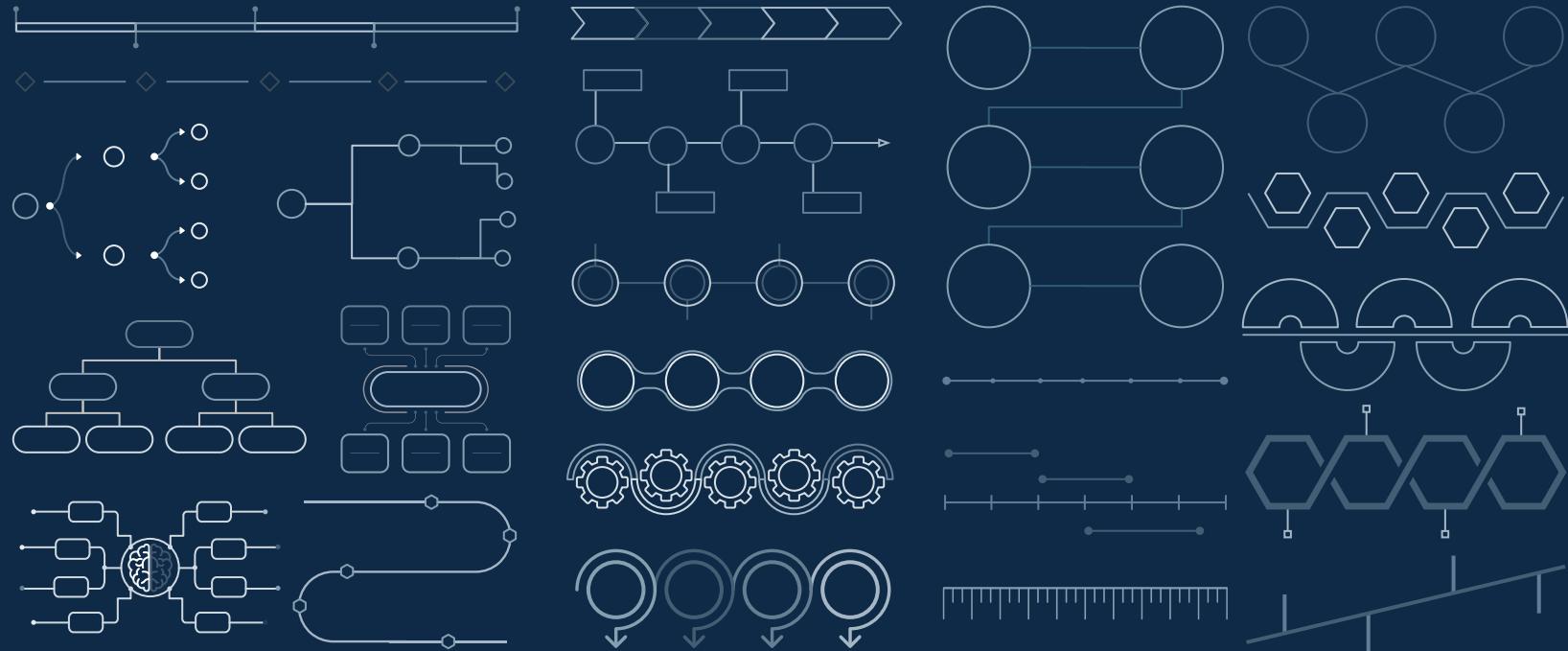
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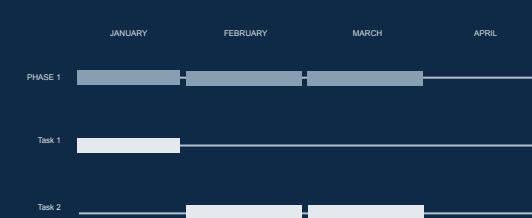
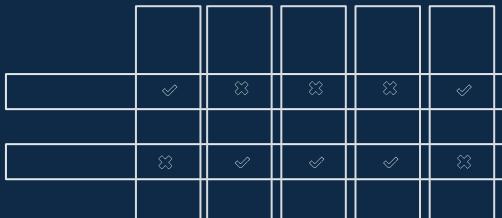
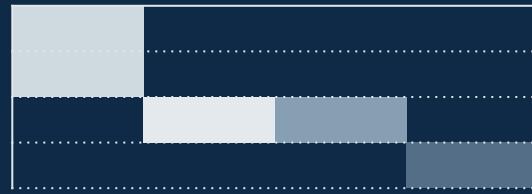
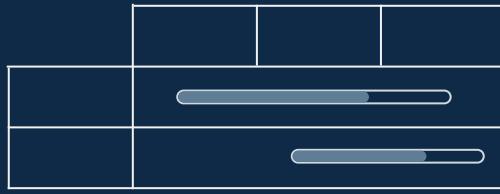
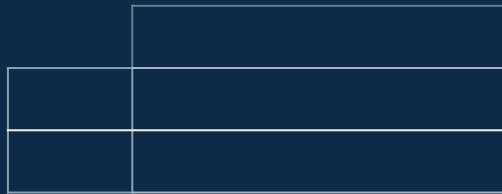
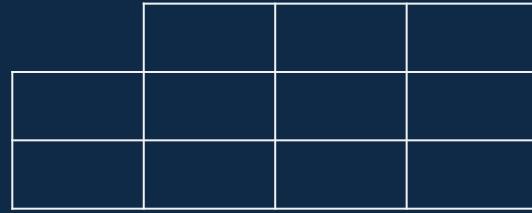
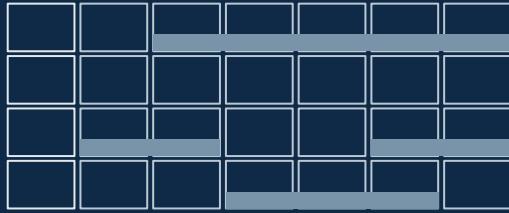
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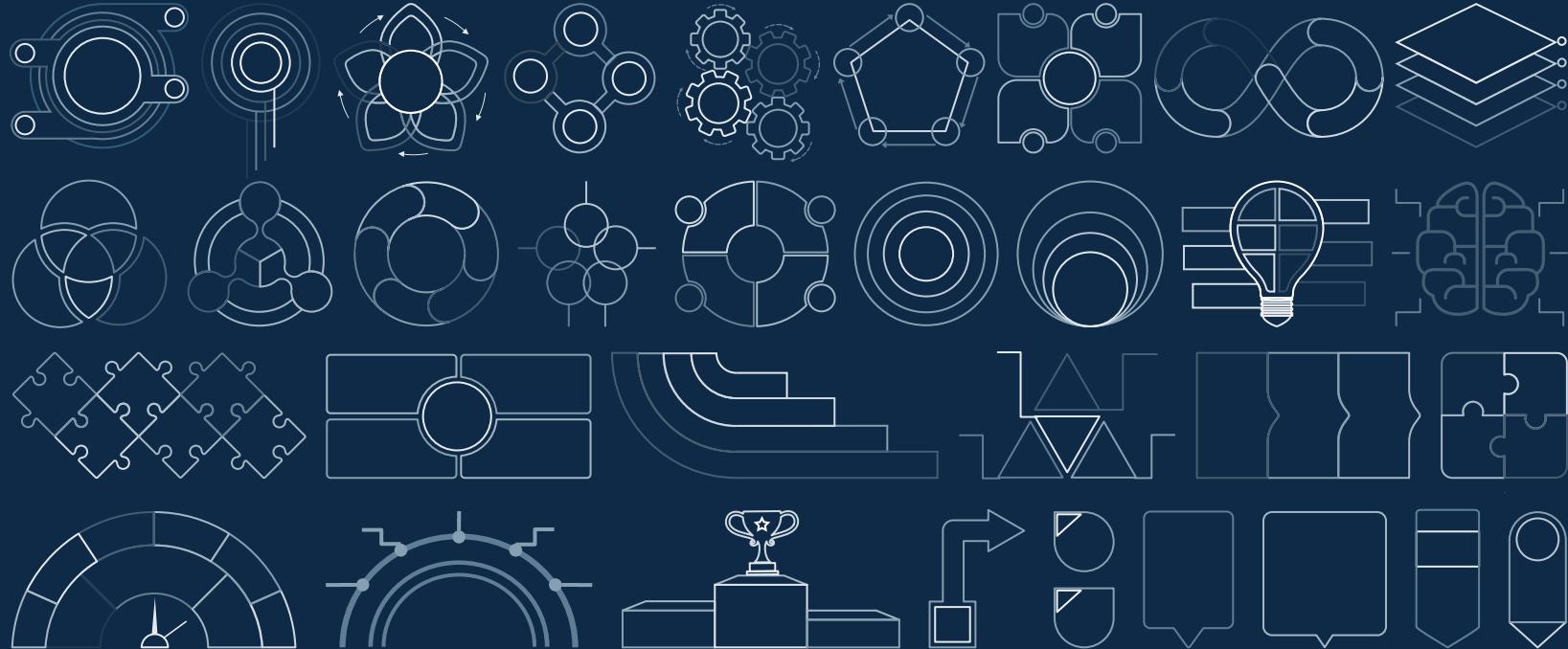
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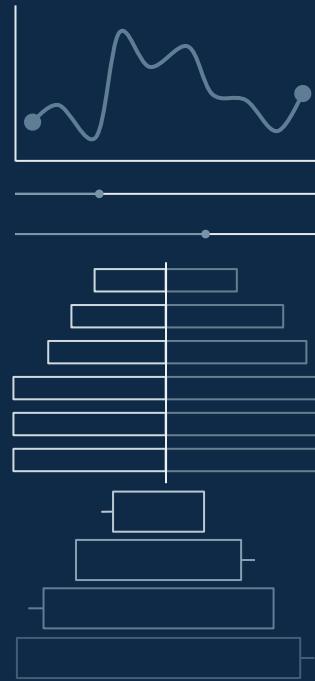
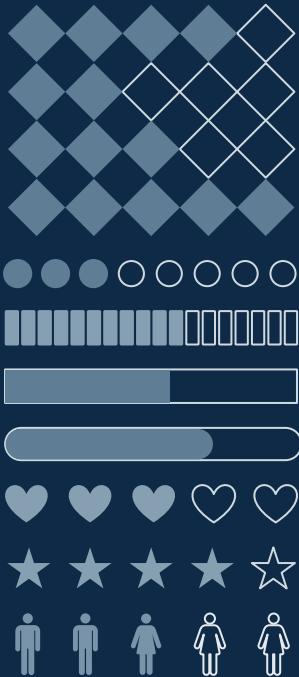
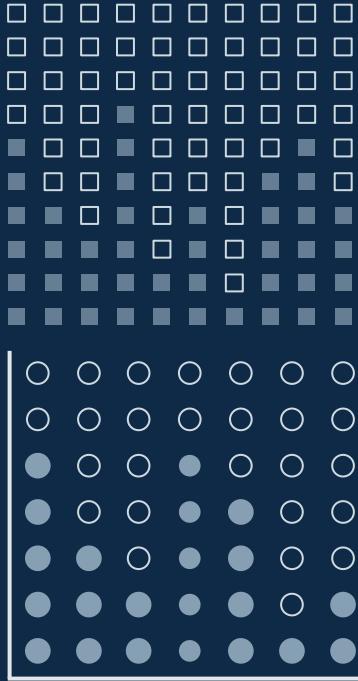












...and our sets of editable icons

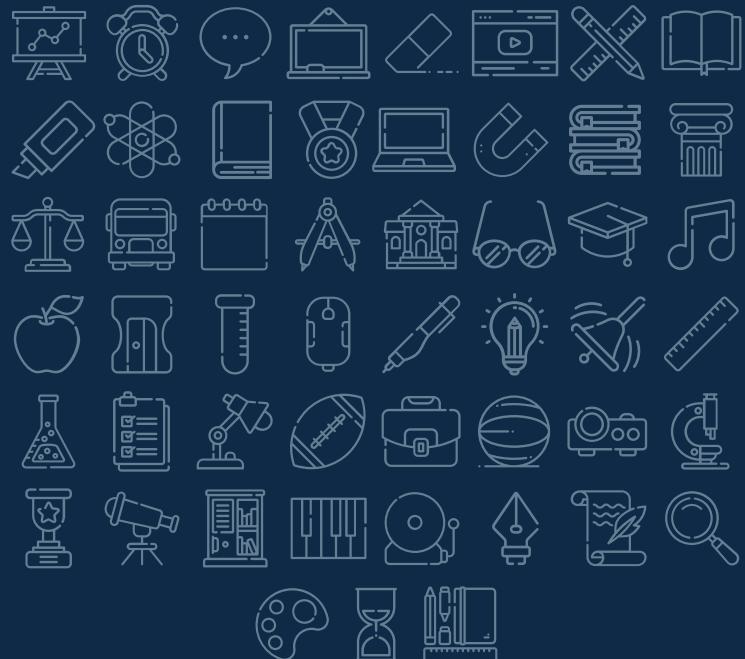
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Educational Icons



Medical Icons



Business Icons



Teamwork Icons



Help & Support Icons



Avatar Icons



Creative Process Icons



Performing Arts Icons



Nature Icons



SEO & Marketing Icons



