



# COM5940: NEW MEDIA BUSINESS MODEL & INNOVATION FROM SQL TO NOSQL AND BIG DATA

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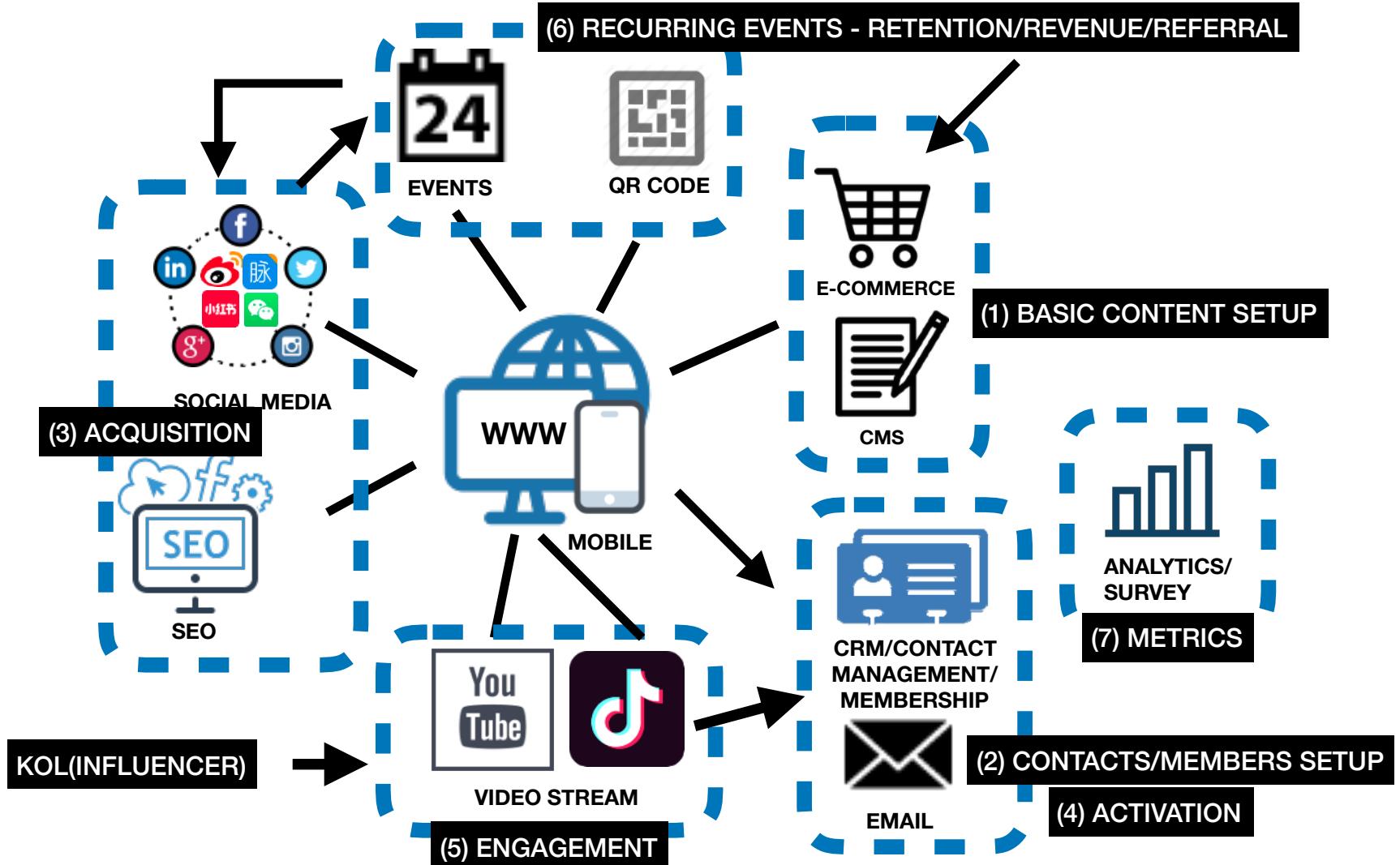


Center for  
Entrepreneurship

# **Quick Recap**

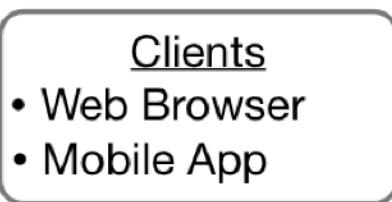
1. **3C (content, community, commerce)** development as basic operational requirements.
2. The **ABCD** digital infrastructure moving to the cloud with **big 4** (AWS, Azure, GCP, Alibaba) leading the pack.
3. The **Lean Startup Approach** with the use of **MVP (minimum viable product)** and **MVA (minimum viable architecture)** for innovation and new product development. I call this the **minimum stack**.

# **Integration of the 3C in a Typical Web Business Operation**



**ABCD** on the Cloud

# 云计算的三层架构



Software (软件)



Platform (平台)



Infrastructure(基建)

(Full Stack Developer  
由全栈工程到全栈创业)

Public(公共)/Private(私人)/Hybrid Clouds(混合)

# Difference between IaaS, PaaS and SaaS

On-Premises	IaaS	PaaS	SaaS
Applications	Applications	Applications	Applications
Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware
O/S	O/S	O/S	O/S
Virtualization	Virtualization	Virtualization	Virtualization
Servers	Servers	Servers	Servers
Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking

Source: SimplyLearn

Managed by you

Managed by Vendor

## WHAT IS CLOUD MIGRATION?

### USE CASES

Migration  
Modernize  
Build Native

### BENEFITS

cost ↓  
scalability ↑  
Security  
accelerated  
adoption





Google Cloud

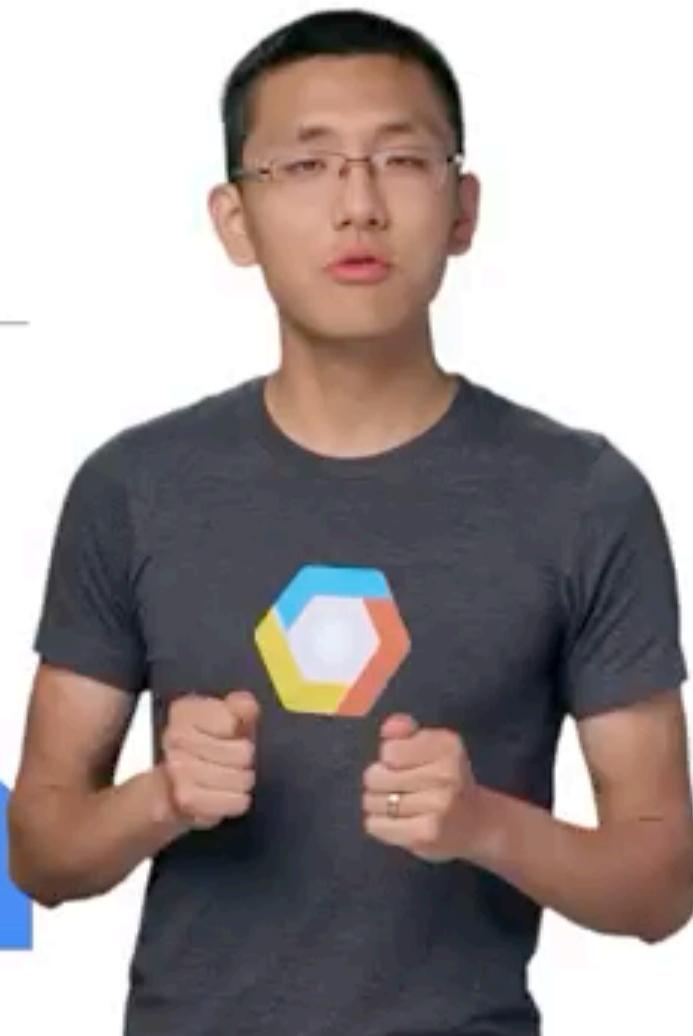
# AI Adventures

---

# Thank You!

@YufengG

**Next time:**  
Distributed Training in the Cloud



**Worldwide cloud infrastructure spending and annual growth**  
Canalys estimates, Q4 2019

Cloud service provider	Q4 2019 (US\$ billion)	Q4 2019 market share	Q4 2018 (US\$ billion)	Q4 2018 market share	Annual growth
AWS	9.8	32.4%	7.3	33.4%	33.2%
Microsoft Azure	5.3	17.6%	3.3	14.9%	62.3%
Google Cloud	1.8	6.0%	1.1	4.9%	67.6%
Alibaba Cloud	1.6	5.4%	1.0	4.4%	71.1%
Others	11.6	38.5%	9.3	42.4%	24.4%
<b>Total</b>	<b>30.2</b>	<b>100.0%</b>	<b>22.0</b>	<b>100.0%</b>	<b>37.2%</b>



Note: percentages may not add up to 100% due to rounding  
Source: Canalys Cloud Channels Analysis, January 2019

# **Blockchain as a Service**



**ZDNet**

All businesses, big and small, are now undergoing **digital transformation** to build the needed infrastructure on the cloud to remain competitive. **Covid-19** has accelerated the momentum.

- Assemble structured and unstructured customer data for profiling
- Add smart devices and data to network
- Build enterprise data warehouse and data lake
- Enable streaming services

## Big Data (Clustering and Distributed/ Parallel Processing)

- Personalise content
- Recommend content and products
- Segment and match members
- Detect transaction fault
- Predict sales growth and optimal inventory
- ML/DL enabled UI (e.g. face recognition)

## AI (Machine Learning)

Content  
Community  
Commerce

## Blockchain (Token & Security)

- Track supply-chain
- Tokenize value exchange
- Secure contractual arrangement

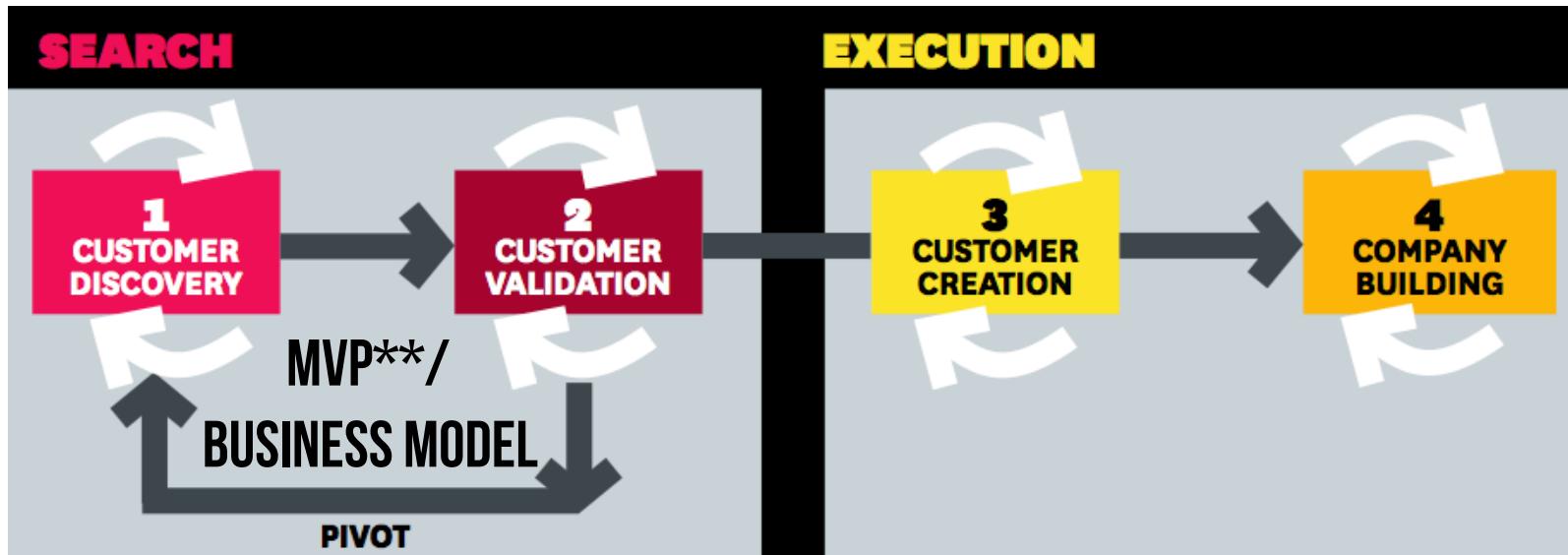
## Cloud Computing (Storage, Computing, Networking, Security, and Platform Services for app development)

- Outsource data storage and computing
- Outsource hardware maintenance and upgrade
- Outsource big data and machine learning infrastructure
- Scale up flexibility
- Leverage container/serverless tech

**How can we get there? Is digital  
transformation a realisable dream?**

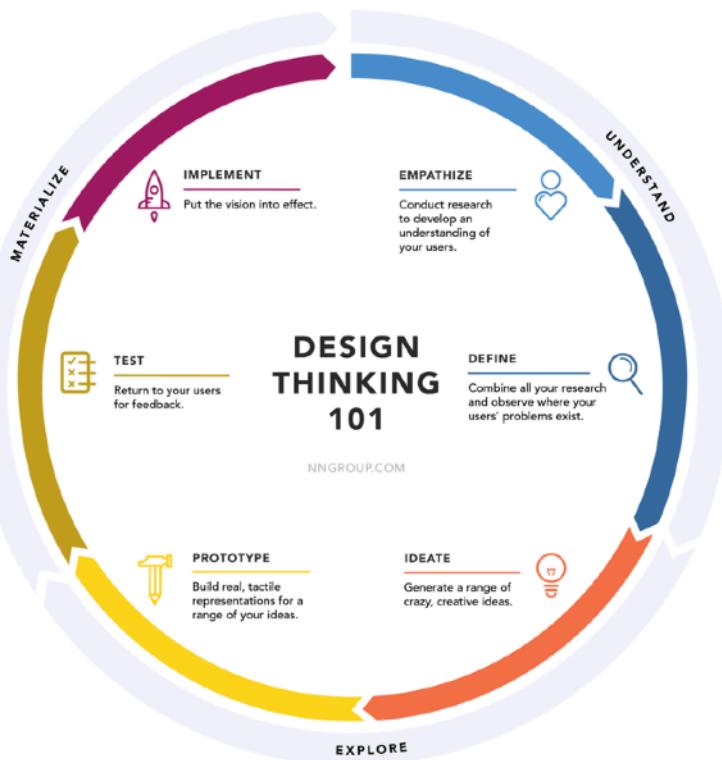
# **The Lean Startup Approach**

# BUILD-MEASURE-LEARN CYCLE IN SEARCH OF PRODUCT-MARKET FIT

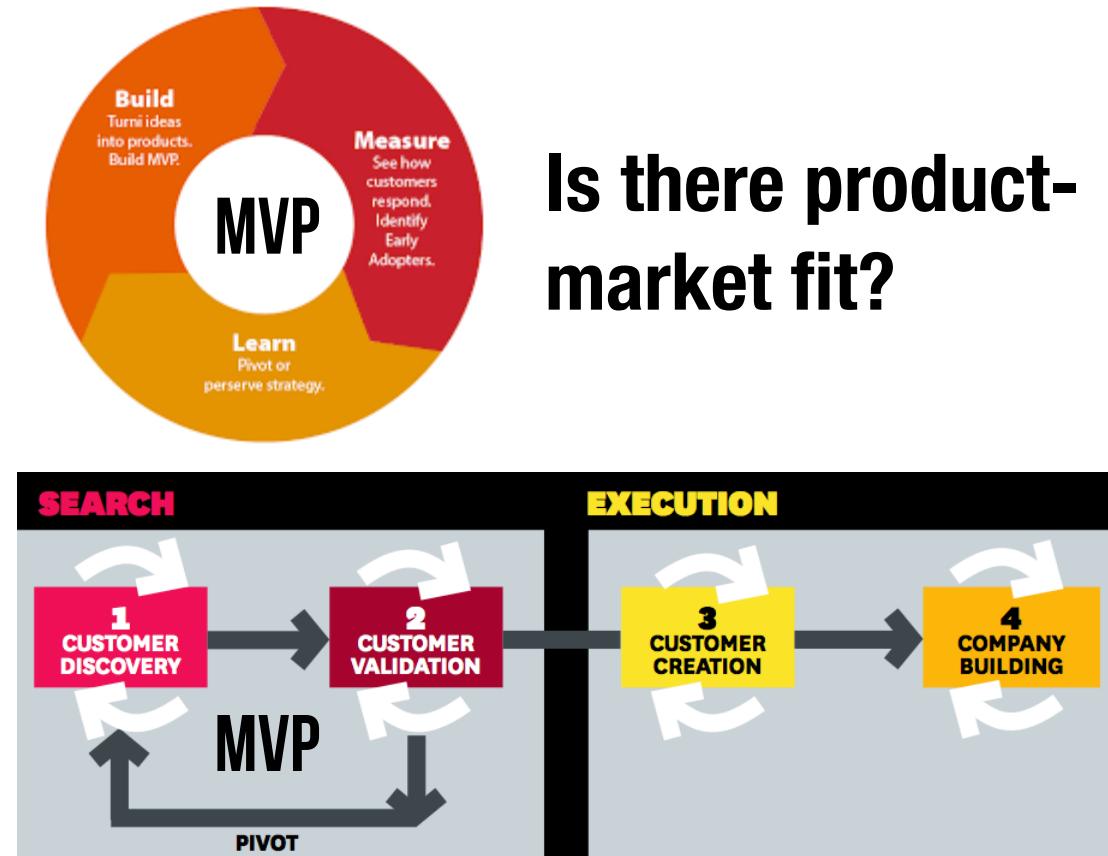


Source: “Why Lean Start-up Changes Everything” by Steve Blank, Harvard Business Review May 2013

**MVP\*\* - Minimum Viable Product**

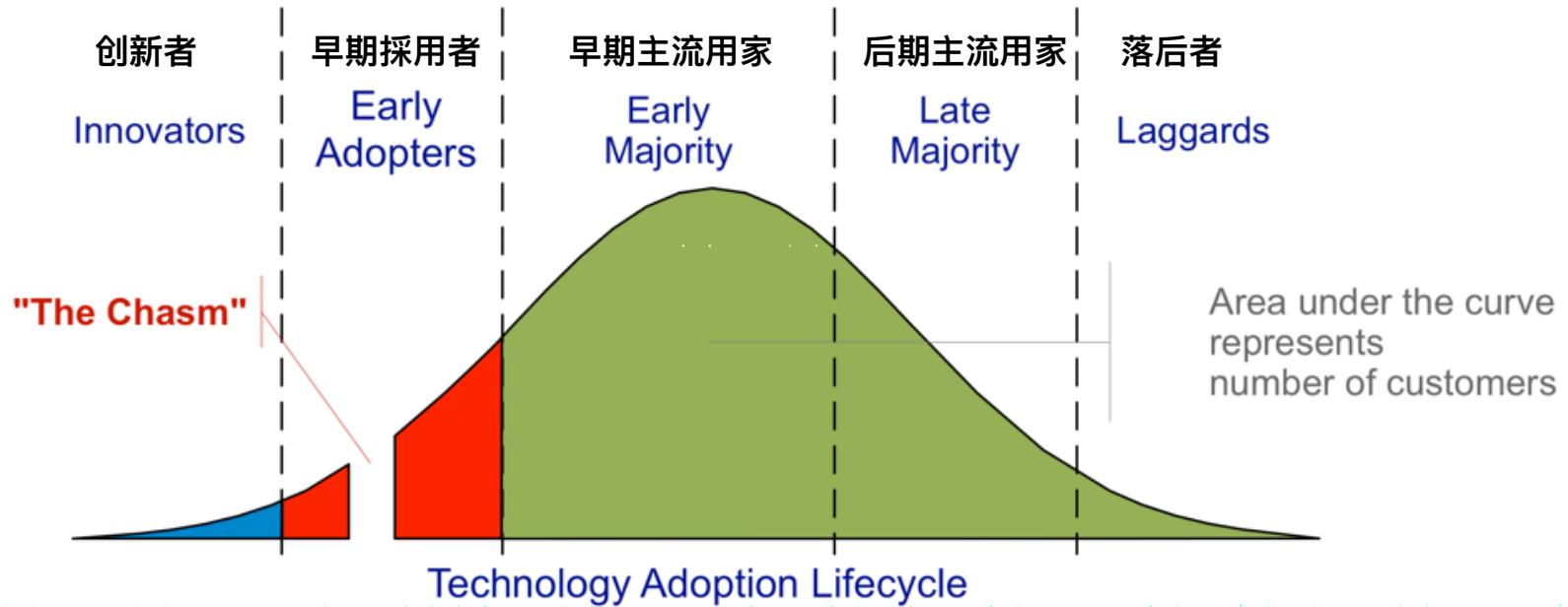


Source: Sarah Gibbons,  
Design Thinking 101  
Nielsen Norman Group



Source: “Why Lean Start-up Changes Everything” by Steve Blank, Harvard Business Review May 2013

# Is there product-market fit?



Source: From Wikimedia Commons, the free media repository  
“Crossing the Chasm” is the book title by the author **Geoffrey Moore**



**Who desire what and why?  
(USABILITY AND DESIRABILITY)**

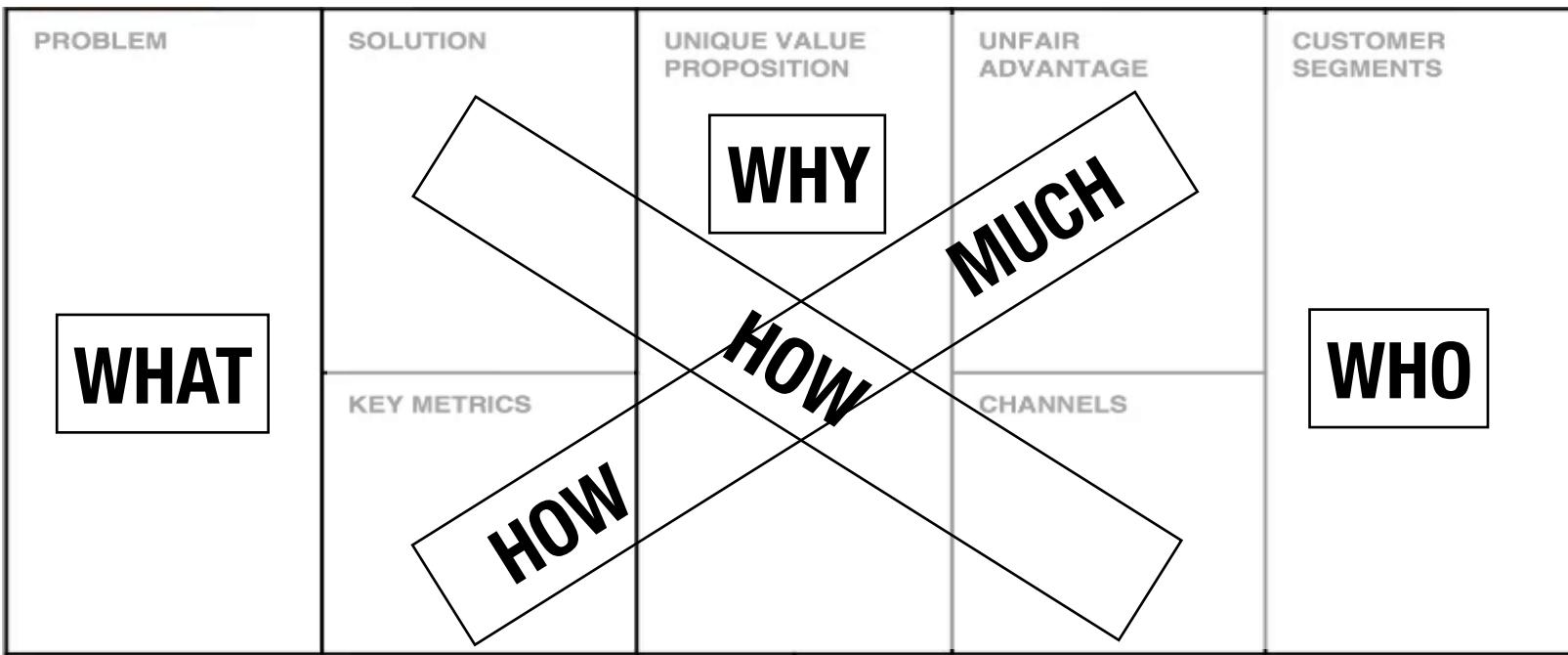
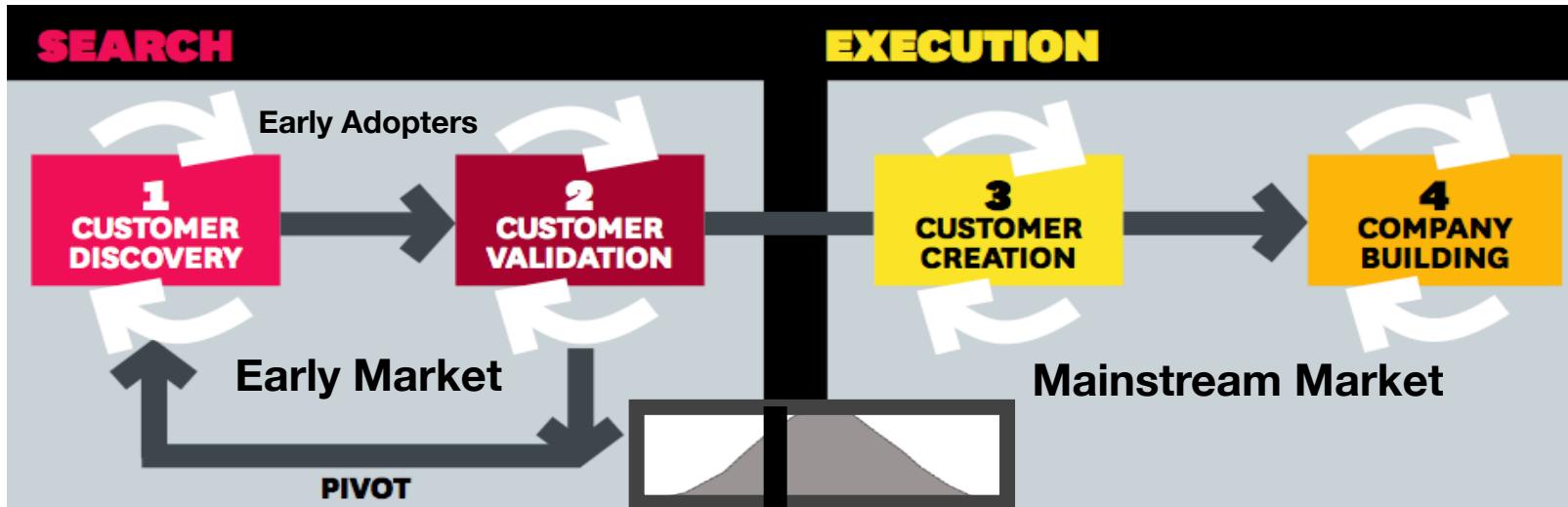


**What is technically and organizationally feasible?  
(FEASIBILITY)**

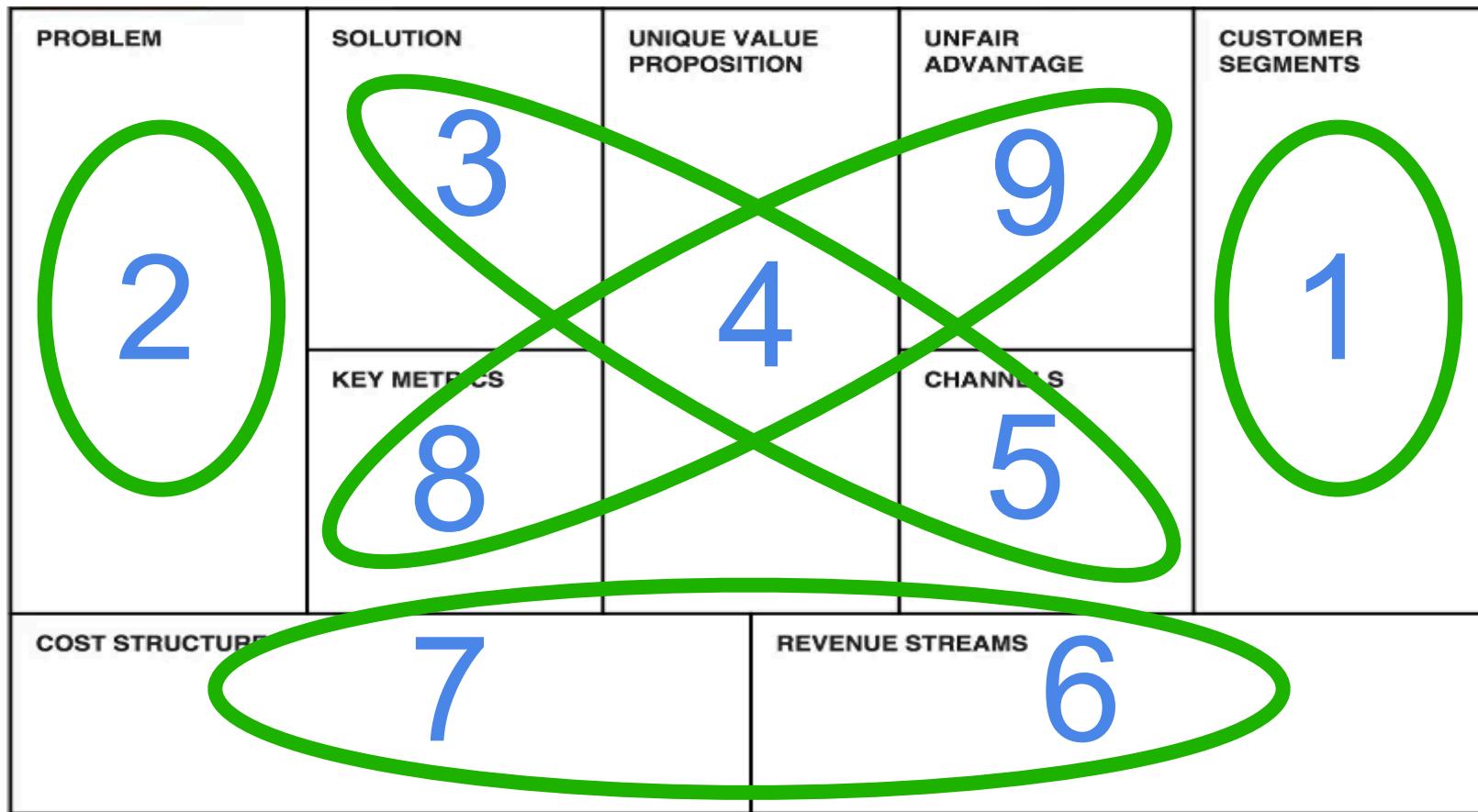
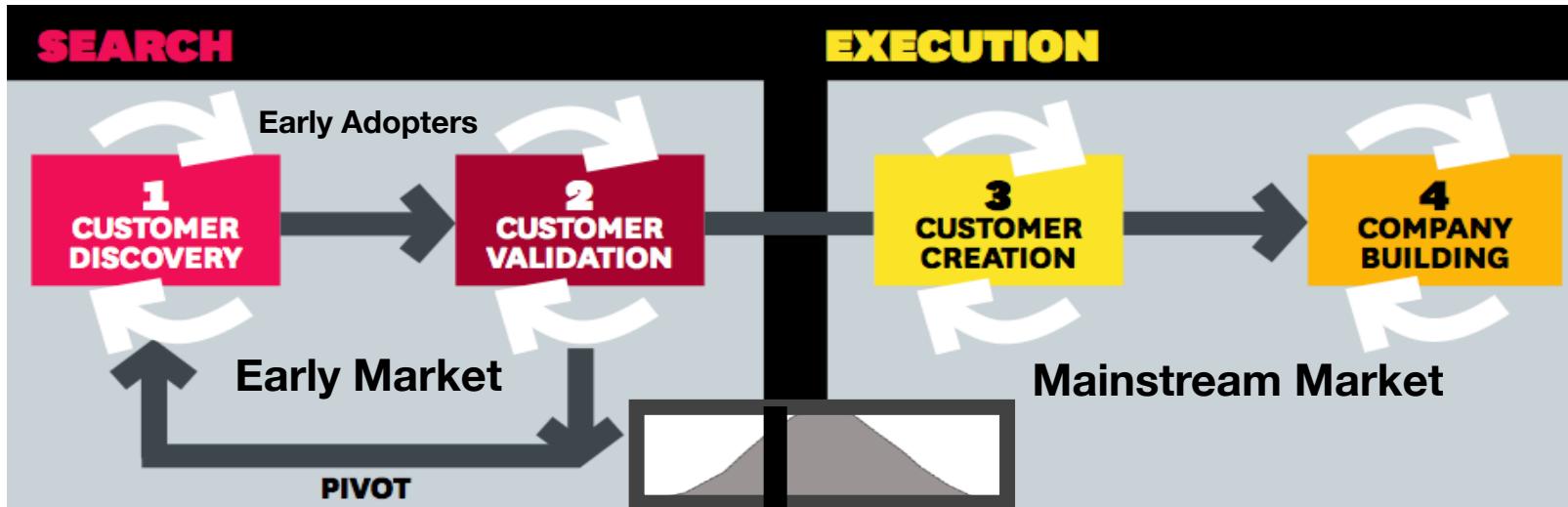


**What can be financially viable and strategically sustainable?  
(VIABILITY)**

Adapted from IDEO Design Thinking Toolkit



**HOW MUCH**



# 最小化可行产品 **MVP**(Minimum Viable Product)



# 最小化可行架构 MVA (Minimum Viable Architecture)



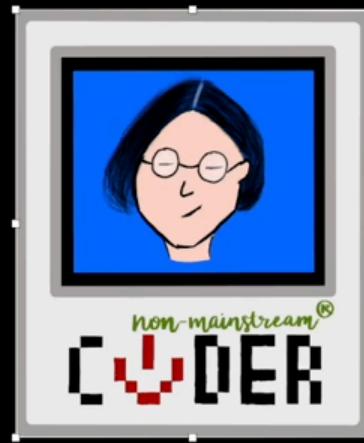
为什么要從最小化可行产品开始?  
用來验证用户体验

# 为何要有最小化可行架构?

## 以最低成本支援验证

**Develop the most basic infrastructure for validating the market and **deploying the MVP** (**surely github is not enough**). Implication: —> **Move to the cloud with minimum investment.****

**From minimum stack to full stack.**



Non-mainstream Coder

@非主流程序员

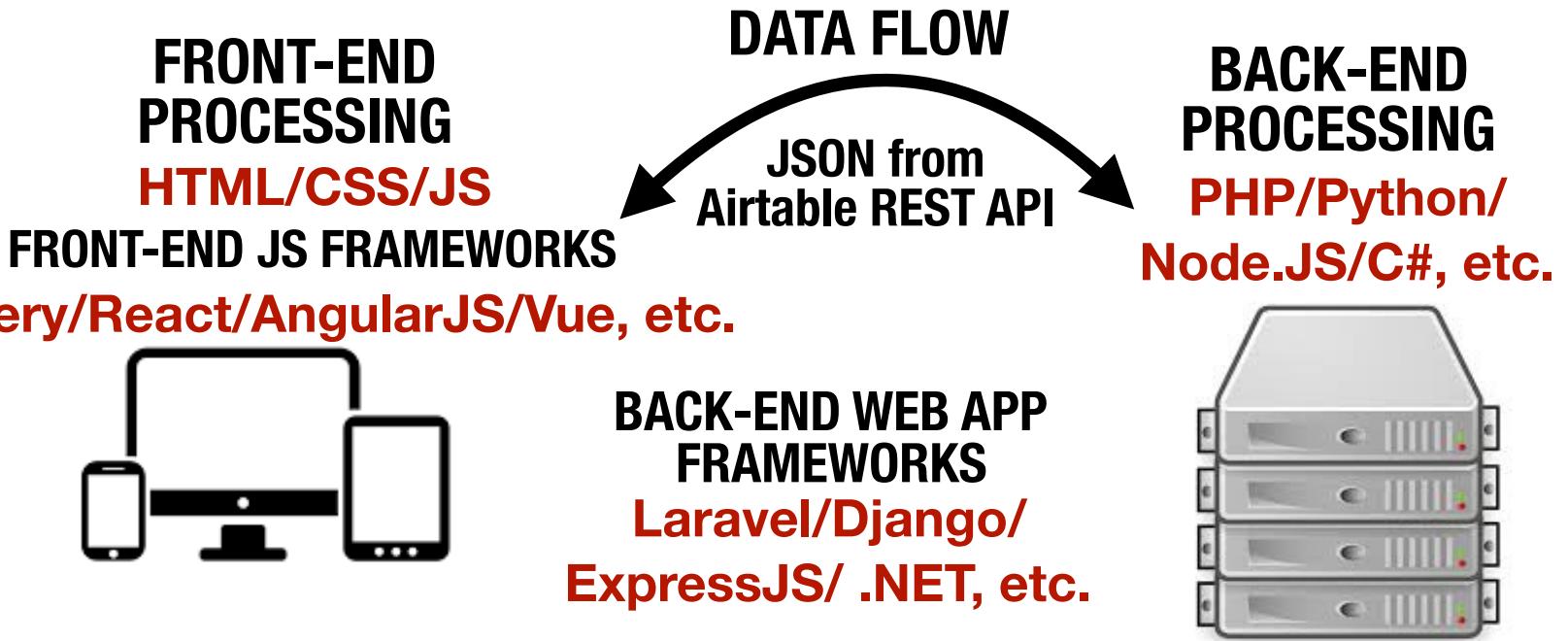
# **Popular Stacks in 2021 Adopted by Startups**

1. **LAMP** - Linux, Apache/Nginx, MySQL, PHP (stack used by 1/3 of the world's websites)
2. **MEAN** - MongoDB, Express, Angular, Node
3. **MERN** - MongoDB, Express, React, Node
4. **MJDP** - \*\*MySQL/MongoDB, React/Angular/Vue, Django, Python
5. **MJNC** - \*\*MySQL/MongoDB, React/Angular/ Vue, .NET, C#

\*\*Some deployments may replace MySQL with PostgreSQL or other SQL databases.

<b>Website</b>	<b>Front-end Framework</b>	<b>Back-end Framework</b>	<b>Database (SQL/NOSQL)</b>	<b>Server/Cloud</b>
WordPress installations	JQuery	PHP/ WordPress	MySQL	Apache/Nginx/Any cloud service
SnapChat	AngularJS/ JQuery	NodeJS/ ExpressJS	MongoDB/MySQL/ DocumentDB/Redis	Google Cloud
Instagram	ReactJS	Python Django	PostresSQL	AWS
Airbnb	ReactJS	Ruby on Rails/ PHP/Java/Python	MySQL/Amazon RDS/Hadoop	Nginx, AWS
Facebook	ReactJS	PHP, GraphQL, Tornado	Cassandra/RockDB, Memcached	Private Cloud
Taobao	ReactJS/ Vue	PHP, JAVA, NodeJS	ApsaraDB for OceanBase	Alibaba Cloud

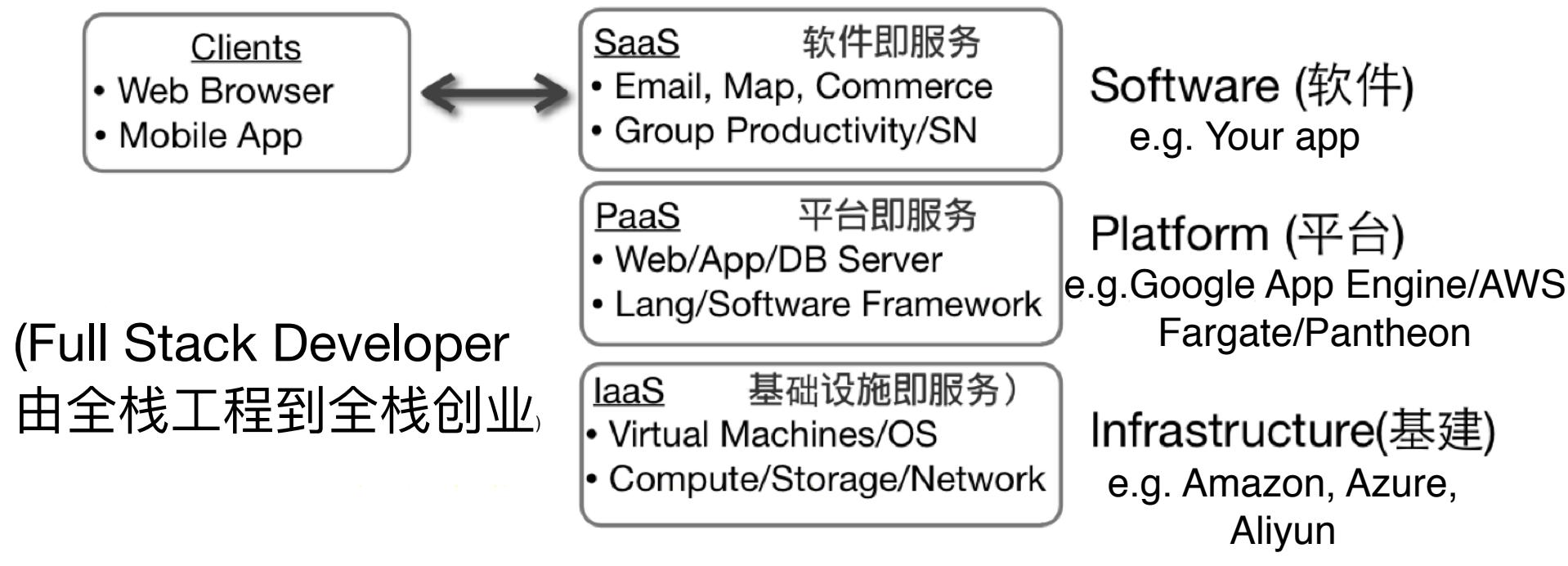
**Using Airtable's stack architecture as an example.**



**Airtable** RESTful API provides JSON data access through **ExpressJS** connected to **MySQL** database hosted on **AWS**. Airtable uses **React** and **native IOS** and **Android** for front-end development.

# **Cloud Infrastructure for Platform Development**

# 云计算的三层架构



Public(公共)/Private(私人)/Hybrid Clouds(混合)

## API (e.g. RestFUL)



BACK-END TECHNOLOGY

后台

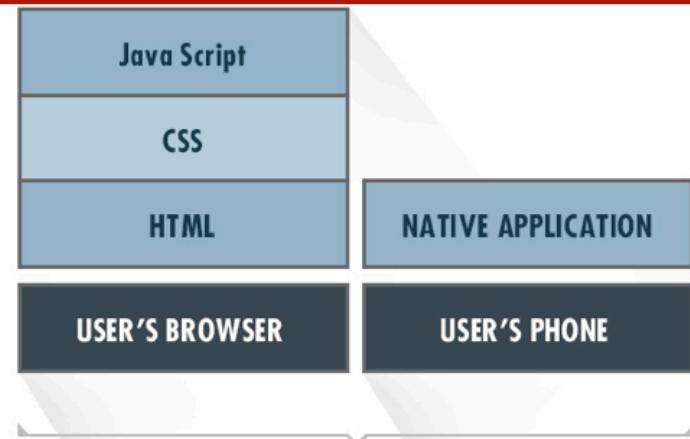
**As a PM, what is your “cloud” and “stack” strategy?**

云架构及前端和后端的全栈策略

{ JSON }



THE INTERNET



CLIENT-SIDE

FRONT-END TECHNOLOGY

前台

# **Full Stack Development:**

## **FRONT-END + BACK-END + CLOUD INFRASTRUCTURE**

**Platform and API growth bring along  
more data for mining.**

# **Today's Agenda**

1. Installation of the “**LAMP** stack” using **MAMP**
2. Preparing your web **templates** for setting up a **WordPress theme**.
3. Short demonstration of **MySQL** operations in **phpMyAdmin** (a **PHP based Data Management System**)
4. Comparison Between **MySQL** and **Airtable**.
5. Comparison Between **SQL** and **NoSQL**.

# **Introduction to LAMP Stack and SQL through MAMP**



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## Download **MAMP & MAMP PRO**



### MAMP & MAMP PRO 5.5

macOS 10.10+ & 64-Bit processor (Intel)

*Users of version 4 can update at a low price.*

### MAMP & MAMP PRO 4.1

Windows 7, 8.1, 10

## Download **MAMP Viewer**

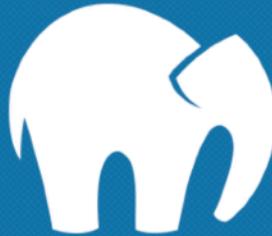


### MAMP Viewer

iPhone & iPad — iOS 9.0+

### MAMP Viewer

Android 5.0+

[Start](#)[My Website](#)[phpInfo](#)[Tools](#) ▾[FAQ](#)[MAMP Website](#)[Buy MAMP PRO](#)

# MAMP PRO 5

New version out now!

[Try Now](#)

## PHP

[phpinfo](#) shows the current configuration of PHP.

## MySQL

MySQL can be administered with [phpMyAdmin](#).

To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock

## Examples

[PHP <= 5.5.x](#)[PHP >= 5.6.x](#)[Python](#)[Perl](#)

## MAMP Version

3.5 → [Update \(5.2\) available!](#)

## News

### [MAMP & MAMP PRO 5 out now!](#)

31th July, 2018 – MAMP & MAMP PRO 5 has just been released

Comes with new WordPress features

Snapshots, Grouped Host List, and much more...

### [MAMP Cloud Function available now with MAMP 4.4](#)

February, 2018 – MAMP Cloud Function has been released

Work on different machines, move or backup your project data.

MAMP Cloud allows you to save and load your host and database data using a cloud provider, such as Dropbox. You can easily save your host and database data in the cloud and later retrieve it on another Mac, or on the same Mac, when backing up data before making changes on your host.

[BLACK FRIDAY SALE](#)

Applications

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Favourites

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- michael
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- git\_home
- pyprojects
- Downloads
- htdocs\_b...
- Desktop
- yssuen
- repo

	Name	Date Modified	Size	Kind
	iTunes	27 Apr 2019 at 12:41 PM	188 MB	Application
	Keynote	9 Jul 2019 at 9:13 PM	707.6 MB	Application
	Kindle	26 May 2018 at 12:34 PM	318.1 MB	Application
	KNIME 4.2.3	4 Nov 2020 at 7:42 AM	6.6 GB	Application
	Koala	19 Nov 2017 at 2:35 AM	324.5 MB	Application
	Launchpad	23 Feb 2019 at 12:54 PM	1.3 MB	Application
	Mail	27 Apr 2019 at 1:05 PM	36.6 MB	Application
▶	MAMP	Today at 1:25 PM	--	Folder
	Maps	21 Mar 2019 at 1:24 AM	12.6 MB	Application
	Messages	19 Sep 2019 at 2:18 PM	11.2 MB	Application
	Microsoft Excel	14 Jan 2021 at 6:15 PM	1.91 GB	Application
	Microsoft OneNote	14 Jan 2021 at 6:16 PM	1.03 GB	Application
	Microsoft Outlook	14 Jan 2021 at 6:19 PM	1.99 GB	Application
	Microsoft PowerPoint	14 Jan 2021 at 6:13 PM	1.65 GB	Application
	Microsoft Teams	15 Dec 2020 at 10:55 PM	218.5 MB	Application
	Microsoft Word	14 Jan 2021 at 6:20 PM	2.18 GB	Application
	Mission Control	23 Feb 2019 at 12:54 PM	871 KB	Application
	MongoHub	31 Mar 2015 at 12:00 AM	10.3 MB	Application
	mu-editor	6 Jul 2019 at 6:48 PM	318.1 MB	Application

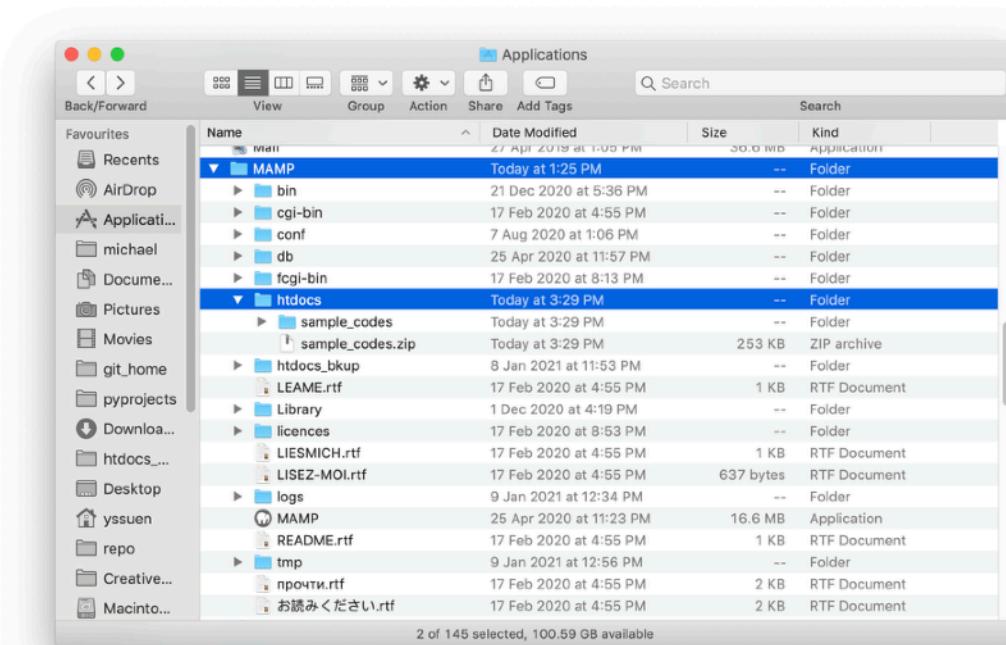
1 of 125 selected, 99.58 GB available

Applications					
Back/Forward	View	Group	Action	Share	Add Tags
Favourites	Name		Date Modified	Size	Kind
Recents	Launchpad		23 Feb 2019 at 12:54 PM	1.3 MB	Application
AirDrop	Mail		27 Apr 2019 at 1:05 PM	36.6 MB	Application
Applications	▼ MAMP		Today at 1:25 PM	--	Folder
michael	▶ bin		21 Dec 2020 at 5:36 PM	--	Folder
Documents	▶ cgi-bin		17 Feb 2020 at 4:55 PM	--	Folder
Pictures	▶ conf		7 Aug 2020 at 1:06 PM	--	Folder
Movies	▶ db		25 Apr 2020 at 11:57 PM	--	Folder
git_home	▶ fcgi-bin		17 Feb 2020 at 8:13 PM	--	Folder
pyprojects	▶ htdocs		Today at 1:34 PM	--	Folder
Downloads	▶ htdocs_bkup		8 Jan 2021 at 11:53 PM	--	Folder
htdocs_b...	▶ LEAME.rtf		17 Feb 2020 at 4:55 PM	1 KB	RTF Document
Desktop	▶ Library		1 Dec 2020 at 4:19 PM	--	Folder
yssuen	▶ licences		17 Feb 2020 at 8:53 PM	--	Folder
repo	▶ LIESMICHE.rtf		17 Feb 2020 at 4:55 PM	1 KB	RTF Document
	▶ LISEZ-MOI.rtf		17 Feb 2020 at 4:55 PM	637 bytes	RTF Document
	▶ logs		9 Jan 2021 at 12:34 PM	--	Folder
	▶ MAMP		25 Apr 2020 at 11:23 PM	16.6 MB	Application
	▶ README.rtf		17 Feb 2020 at 4:55 PM	1 KB	RTF Document
	▶ tmp		9 Jan 2021 at 12:56 PM	--	Folder

2 of 143 selected, 99.58 GB available

## Index of /

- [sample\\_codes.zip](#)
- [sample\\_codes/](#)



**Move the sample\_codes.zip file downloaded from Zoom chat. Move it into the htdocs folder in MAMP and unzip it. You'll then see the sample\_codes folder.**

## Index of /

- [sample\\_codes.zip](#)
- [sample\\_codes/](#)

**A little bit of PHP.**

Not Secure | www.w3school.com.cn

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# w3school

HTML / CSS JavaScript Server Side ASP .NET XML Web Services Web Building

HTML 教程  
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XHTML  
CSS  
CSS3  
TCP/IP  
浏览器脚本  
JavaScript  
HTML DOM  
jQuery  
jQuery Mobile  
AJAX  
JSON  
DHTML  
E4X  
WMLScript  
服务器脚本  
PHP  
SQL  
ASP  
ADO  
VBScript

领先的 Web 技术教程 – 全部免费  
在 w3school, 你可以找到你所需要的所有的网站建设教程。  
从基础的 HTML 到 CSS, 乃至进阶的 XML、SQL、JS、PHP 和 ASP.NET。  
从左侧的菜单选择你需要的教程！

完整的网站技术参考手册  
 我们的参考手册涵盖了网站技术的方方面面。  
其中包括W3C标准技术: HTML、CSS、XML。以及其他技术, 诸如 JavaScript、PHP、SQL 等。

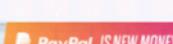
在线实例测试工具  
 在 w3school, 我们提供上千个实例。  
通过使用我们的在线编辑器, 你可以编辑这些例子, 并对代码进行实验。

参考手册  
HTML/HTML5 标签  
HTML 颜色  
CSS 1,2,3  
JavaScript  
HTML DOM  
jQuery  
jQuery Mobile  
VBScript  
ASP  
ADO  
ASP.NET  
PHP 5.1  
XML DOM  
XSLT 1.0  
XPath 2.0  
XSL-FO  
WML 1.1  
W3C 术语表  
字符集  
HTML 字符集  
HTML ASCII  
HTML ISO-8859-1

<https://www.w3school.com.cn/php/index.asp>



示例代码和教程



HTML / CSS

JavaScript

Server Side

ASP .NET

XML

Web Services

Web Building

课程表

## PHP 教程

PHP 基础教程

PHP 教程

PHP 简介

PHP 安装

PHP 语法

PHP 变量

PHP Echo / Print

PHP 数据类型

PHP 字符串函数

PHP 常量

PHP 运算符

PHP If...Else

PHP Switch

PHP While 循环

PHP For 循环

PHP 函数

PHP 数组

PHP 数组排序

PHP 超全局

PHP 表单

PHP 表单处理

PHP 表单验证

PHP 表单必填

PHP 表单 URL/E-mail

上一节 下一节

PHP 是一种创建动态交互性站点的强有力的服务器端脚本语言。

PHP 是免费的，并且使用广泛。对于像微软 ASP 这样的竞争者来说，PHP 无疑是另一种高效率的选项。

[开始学习 PHP !](#)

### 通过在线实例学习 PHP

我们的“运行实例”工具降低了 PHP 的学习难度，它可以同时显示出 PHP 源代码以及代码的 HTML 输出。

### 实例

```
<!DOCTYPE html>
<html>
<body>

<?php
echo "我的第一段 PHP 脚本!";
?>

</body>
</html>
```

工具箱

参考书

小测验

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無需設定費  
或月費

支援超過100種貨幣  
的收款及付款



**All PHP statements use the  
following syntax:**

**<?php PHP commands ?>**

Commands	JavaScript	Python	PHP
x equals 2 + 3 display x	<pre>&lt;script&gt; x = 2 + 3; document.write("x="+x); &lt;/script&gt;</pre>	<pre>x = 2 + 3 print("x="+str(x))</pre>	<pre>&lt;?php \$x = 2 + 3; echo "x=". \$x; ?&gt;</pre>
if x equals 2 + 3 then display x	<pre>&lt;script&gt; if (x == 5) {   document.write("x=5"); } else {   document.write("x="+x); } &lt;/script&gt;</pre>	<pre>if (x == 5):   print("x=5") else:   print("x="+str(x))</pre>	<pre>&lt;?php if (\$x == 5) {   echo "x=5"; } else {   echo "x=". \$x; } ?&gt;</pre>
for i for 0 to 3 print i value	<pre>&lt;script&gt; for (i=0; i&lt;3; i++) {   document.write("i="+i+ "&lt;br&gt;"); } i = 0; while (i&lt;3) {   document.write("i="+i+ "&lt;br&gt;");   i++; } &lt;/script&gt;</pre>	<pre>i = 0 for i in range(3):   print("i="+str(i))  while i &lt; 3:   print("i="+str(i))   i=i+1</pre>	<pre>&lt;?php \$i=0; for (\$i=0;\$i&lt;3;\$i++) {   echo "i=".\$i."&lt;br&gt;"; } ?&gt; ****&lt;br&gt; &lt;?php \$i=0; while (\$i &lt; 3):   echo "i=".\$i."&lt;br&gt;";   \$i++; endwhile ?&gt;</pre>

## Simple Comparison of JavaScript, Python, and PHP

```
④ test1.html > ...
1  !DOCTYPE html
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9  <script>
10     x = 6;
11     if (x == 5) {
12         document.write("x=5");
13     } else {
14         document.write("x="+x);
15     }
16 </script>
17 <br><br>
18 <script>
19     for (i=0; i < 3; i++)
20     {
21         document.write("i="+i+"<br>");
22     }
23 </script>
24 ****
25 <br>
26 <script>
27     i=0
28     while (i<3) {
29         document.write("i="+i+"<br>");
30         i++;
31     }
32 </script>
33 </body>
34 </html>
```

```
In [56]: 1 x = 2 + 3  
2 print("x="+str(x))
```

x=5

```
In [61]: 1 x = 6  
2 if (x == 5):  
3     print("x=5")  
4 else:  
5     print("x="+str(x))
```

x=6

```
In [67]: 1 for i in range(3):  
2     print("i="+str(i))
```

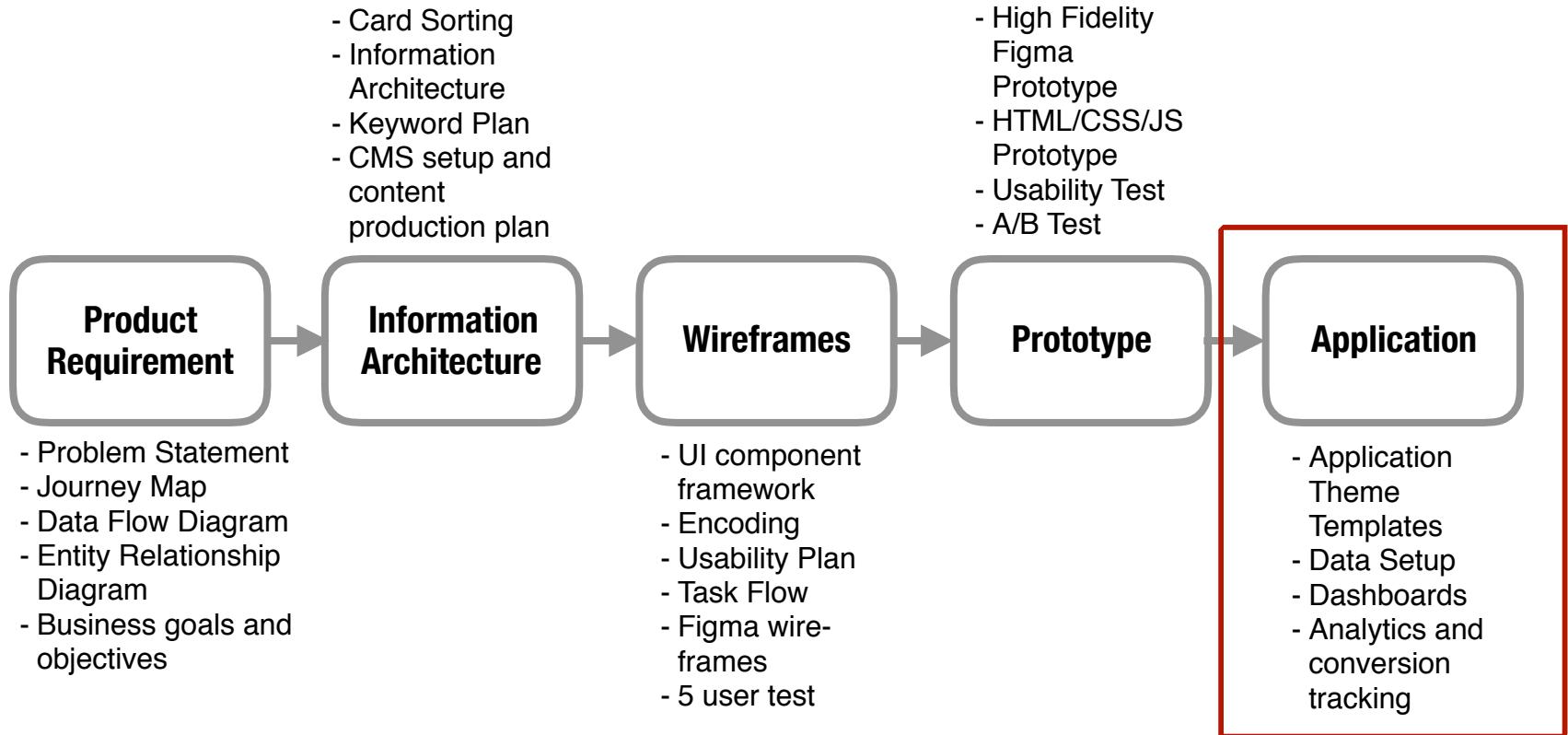
i=0  
i=1  
i=2

```
In [71]: 1 i=0  
2 while i < 3:  
3     print("i="+str(i))  
4     i=i+1
```

i=0  
i=1  
i=2

```
.isFile test1.php
1  <?php
2  $x = 2 + 5;
3  echo "x=". $x;
4  echo "<br>";
5  ?>
6
7  <?php
8  if ($x == 5) {
9      echo "x=5";
10 } else {
11     echo "Wrong. x=". $x;
12 }
13 ?>
14 <br>****<br>
15 <?php
16 $i=0;
17 for ($i=0;$i<3;$i++)
18 {
19     echo "i=". $i."<br>";
20 }
21 ?>
22 ****<br>
23 <?php
24 $i=0;
25 while ($i < 3):
26     echo "i=". $i."<br>";|
27     $i++;
28 endwhile
29 ?>
```

**With a little bit of PHP at hand, let's try to prepare  
your web **templates** for setting up a WordPress  
**theme.****



**The most basic plugins you needed  
to get started.**

## Add Plugins

[Upload Plugin](#)[Help ▾](#)[Search Results](#) [Featured](#) [Popular](#) [Recommended](#) [Favorites](#)[Keyword ▾](#)  [X](#)1,669 items [«](#) [«](#) [1](#) of 47 [»](#) [»](#)

### Classic Editor

Enables the previous "classic" editor and the old-style Edit Post screen with TinyMCE, Meta Boxes, etc. Supports all plugins that extend thi...  
...

By [WordPress Contributors](#)

★★★★★ (919)

5+ Million Active Installations

Last Updated: 1 month ago

✓ Compatible with your version of WordPress

[Activate](#)[More Details](#)

### Pods – Custom Content Types and Fields

Pods is a framework for creating, managing, and deploying customized content types and fields.

By [Pods Framework Team](#)

★★★★★ (321)

100,000+ Active Installations

Last Updated: 1 week ago

✓ Compatible with your version of WordPress

[Activate](#)[More Details](#)

### which template file

Show the name of the php file of your theme used to display the current...

By [Gilles Dumas](#)

★★★★★ (3)

2,000+ Active Installations

Last Updated: 1 month ago

Untested with your version of WordPress

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### Simple Custom CSS and JS

Easily add Custom CSS or JS to your website with an awesome editor.

By [SilkyPress.com](#)

★★★★★ (72)

300,000+ Active Installations

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### Easy Query – WP Query Builder

Create a custom WordPress query in seconds with Easy Query.

By [Darren Cooney](#)

★★★★★ (5)

1,000+ Active Installations

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### File Manager

file manager provides you ability to edit, delete, upload, download, copy and paste files and...

By [mnudsingh287](#)

★★★★★ (965)

600,000+ Active Installations

Last Updated: 4 months ago

Untested with your version of WordPress

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### Cache Cleaner – Scheduled

Clean UP your Cache Folders. Scheduled Cache Cleaner with Email Notification.

By [Lumiverse Dynamic](#)

★★★★★ (1)

500+ Active Installations

Last Updated: 3 months ago

Untested with your version of WordPress

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### WP Super Cache

A very fast caching engine for WordPress that produces static html files.

By [Automattic](#)

★★★★★ (1,263)

2+ Million Active Installations

Last Updated: 1 month ago

✓ Compatible with your version of WordPress

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Search installed plugins...

Bulk actions

[Apply](#)

8 items

<input type="checkbox"/> Plugin	Description	Automatic Updates
<input type="checkbox"/> <b>Cache Cleaner - Scheduled</b> <a href="#">Deactivate</a>	Scheduled Cache Clean UP. Keep your Cache Folders Fresh.  Version 1.0.7   By <a href="#">Lumiverse Dynamic</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>Classic Editor</b> <a href="#">Deactivate</a>   <a href="#">Settings</a>	Enables the WordPress classic editor and the old-style Edit Post screen with TinyMCE, Meta Boxes, etc. Supports the older plugins that extend this screen.  Version 1.6   By <a href="#">WordPress Contributors</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>Easy Query</b> <a href="#">Deactivate</a>   <a href="#">Settings</a>   <a href="#">Query Builder</a>	A query builder plugin for WordPress.  Version 2.0.4   By <a href="#">Darren Cooney</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>Pods - Custom Content Types and Fields</b> <a href="#">Add-Ons</a>   <a href="#">Opt In</a>   <a href="#">Deactivate</a>	Pods is a framework for creating, managing, and deploying customized content types and fields  Version 2.7.26   By <a href="#">Pods Framework Team</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>Simple Custom CSS and JS</b> <a href="#">Settings</a>   <a href="#">Deactivate</a>	Easily add Custom CSS or JS to your website with an awesome editor.  Version 3.34.1   By <a href="#">SilkyPress.com</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>Which Template File</b> <a href="#">Deactivate</a>   <a href="#">Settings</a>	Plugin for developers. Display in the admin bar, the name of the template (PHP file) for this page. Display with different colors if the template owns to the current theme, the theme parent, or a plugin. An option page allows to chose if every logged user can see the template file in the admin-bar, or just the administrators of the website. (with "administrator" role)  Version 4.5.0   By <a href="#">Gilles Dumas</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>WP File Manager</b> <a href="#">Buy Pro</a>   <a href="#">Donate</a>   <a href="#">Deactivate</a>	Manage your WP files.  Version 6.9   By <a href="#">mndpsingh287</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> <b>WP Super Cache</b> <a href="#">Settings</a>   <a href="#">Deactivate</a>	Very fast caching plugin for WordPress.  Version 1.7.1   By <a href="#">Automattic</a>   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Plugin	Description	Automatic Updates

Bulk actions

[Apply](#)

8 items

**Set up cache management to speed  
up your web site and ensure site is  
active.**

Howdy, master

COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Appearance Plugins Users Tools Settings

WP Super Cache Settings

Easy Advanced CDN Contents Preload Plugins Debug

Caching  Caching On (Recommended)  Caching Off

The following recommended settings will be enabled:

1. Caching disabled for logged in visitors.
2. Simple caching.
3. Cache Rebuild.
4. Interval garbage collection every 10 minutes with a cache lifetime of 30 minutes (if not configured already).

These settings can be modified on the Advanced Settings page.

Update Status

Delete Cached Pages

Cached pages are stored on your server as html and PHP files. If you need to delete them, use the button below.

Delete Cache

WP Super Cache

Pantheon Page Cache

Recommended Links and Plugins

Caching is only one part of making a website faster. Here are some other plugins that will help:

- [Jetpack](#) provides everything you need to build a successful WordPress website including an image/photo CDN (free) and a video hosting service (paid).
- [Yahoo! Yslow](#) analyzes web pages and suggests ways to improve their performance based on a set of rules for high performance web pages. Also try the performance tools online at [GTMetrix](#).
- [Use Google Libraries](#) allows you to load some commonly used Javascript libraries from Google webservers. Ironically, it may reduce your Yslow score.
- **Advanced users only:** Install an object cache. Choose from [Memcached](#), [XCache](#), [eAccelerator](#) and others.
- [WP Control](#) is a useful plugin to use when trying to debug garbage collection and preload problems.

Other Site Tools

- [Speed up images and photos \(free\)](#)
- [Fast video hosting \(paid\)](#)
- [Add Surveys and Polls to your site](#)

Need Help?

1. Use the [Debug tab](#) for diagnostics.
2. Check out the [support forum](#) and [FAQ](#).
3. Visit the [plugin homepage](#).
4. Try out the [development version](#) for the latest fixes ([changelog](#)).

Rate This Plugin

Please [rate us](#) and give feedback.

- Dashboard
- Posts
- Media
- Pages
- Comments
- Custom CSS & JS
- Exhibitions
- Appearance
- Plugins
- Users
- Tools
- Settings
- Cache Cleaner
- WP File Manager

Interval for Scheduled AutoCleaning

Every Day

Cache Clean UP

OFF Autoptimize View Plugin Details [here](#)

OFF W3 Total Cache View Plugin Details [here](#)

ON WP Super Cache View Plugin Details [here](#)

OFF WP Fastest Cache View Plugin Details [here](#)

OFF Comet Cache View Plugin Details [here](#)

OFF Cache Enabler View Plugin Details [here](#)

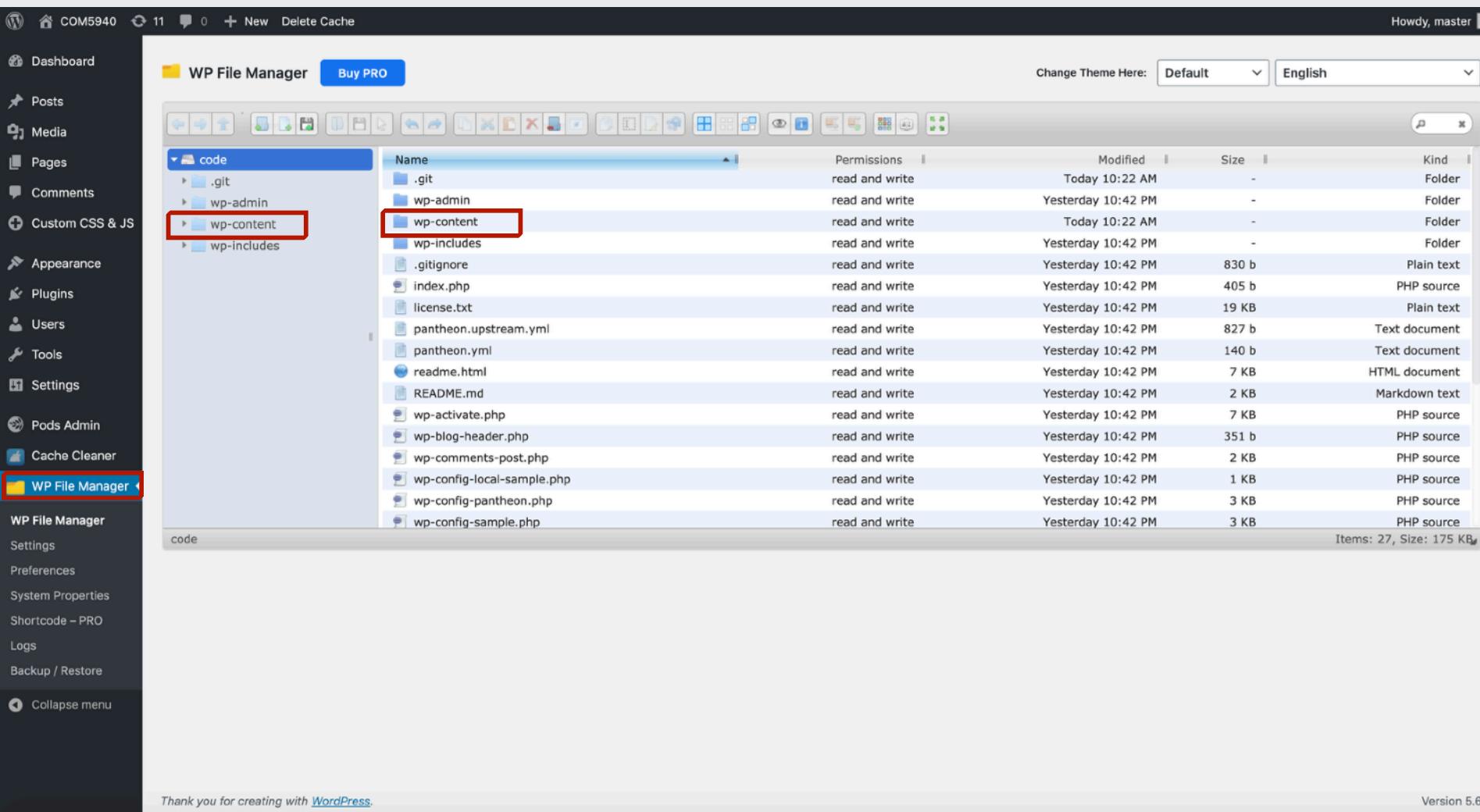
OFF WP Rocket View Plugin Details [here](#)

Email Notification

ON Notify by Email

Please Add The Email to Use: support@intchnigence.com

**Know your file Location for  
creating your first theme.**



**Create your [first theme](#) with a little bit  
of [HTML](#), [CSS](#), [JS](#), and [PHP](#).**

1. Ongoing content production requires separation of duties and separation of data from layouts.
2. Make it flexible to change the look and layout.
3. Data entry staff no need to know how to design or code.

**Now, apply a little bit of PHP in WordPress  
to create your theme.**

The screenshot shows the WP File Manager interface. On the left, a sidebar lists directory paths: code, .git, wp-admin, wp-content (expanded), cache, mu-plugins, plugins, themes (expanded), twentyeleven, twentyfifteen, twentyfourteen, twentynineteen, twentyseventeen, twentysixteen, twentyten, twentythirteen, twentytwelve, twentytwenty, and index.php. The 'themes' folder is highlighted with a red box. A context menu is open over the 'themes' folder, with 'New folder' also highlighted with a red box. The main area displays a table of files and folders under the 'code' directory. The table columns are Name, Permissions, Modified, Size, and Kind. The 'Name' column lists twentyeleven, twentyfifteen, twentyfourteen, twentynineteen, twentyseventeen, twentysixteen, twentyten, twentythirteen, twentytwelve, twentytwenty, and index.php. The 'Permissions' column shows 'read and write' for all. The 'Modified' column shows 'Yesterday 10:42 PM' for all. The 'Size' column shows '-' for all. The 'Kind' column shows 'Folder' for all except index.php, which is 'PHP source'. At the bottom right of the main area, it says 'Items: 12, Size: 28 b'.

Name	Permissions	Modified	Size	Kind
twentyeleven	read and write	Yesterday 10:42 PM	-	Folder
twentyfifteen	read and write	Yesterday 10:42 PM	-	Folder
twentyfourteen	read and write	Yesterday 10:42 PM	-	Folder
twentynineteen	read and write	Yesterday 10:42 PM	-	Folder
twentyseventeen	read and write	Yesterday 10:42 PM	-	Folder
twentysixteen	read and write	Yesterday 10:42 PM	-	Folder
twentyten	read and write	Yesterday 10:42 PM	-	Folder
twentythirteen	read and write	Yesterday 10:42 PM	-	Folder
twentytwelve	read and write	Yesterday 10:42 PM	-	Folder
twentytwenty	read and write	Yesterday 10:42 PM	-	Folder
index.php	read and write	Yesterday 10:42 PM	28 b	PHP source

WP File Manager interface showing the file structure under 'code/wp-content/themes'. A red box highlights the folder 'com5940'.

Name	Permissions	Modified	Size	Kind
com5940	read and write	Today 10:27	-	Folder
twentyeleven	read and write	Yesterday 10:42 PM	-	Folder
twentyfifteen	read and write	Yesterday 10:42 PM	-	Folder
twentyfourteen	read and write	Yesterday 10:42 PM	-	Folder
twentynineteen	read and write	Yesterday 10:42 PM	-	Folder
twentyseventeen	read and write	Yesterday 10:42 PM	-	Folder
twentysixteen	read and write	Yesterday 10:42 PM	-	Folder
twentyten	read and write	Yesterday 10:42 PM	-	Folder
twentythirteen	read and write	Yesterday 10:42 PM	-	Folder
twentytwelve	read and write	Yesterday 10:42 PM	-	Folder
twentytwenty	read and write	Yesterday 10:42 PM	-	Folder
twentytwentyone	read and write	Yesterday 10:42 PM	-	Folder
index.php	read and write	Yesterday 10:42 PM	28 b	PHP source

Items: 12, Size: 28 b

The screenshot shows the WP File Manager interface. On the left is a sidebar with a tree view of directory structure. The current path is 'code/wp-content/themes/com5940'. A context menu is open over the folder 'com5940', which is highlighted with a blue selection bar. The menu items include: Back, Go to parent folder, Reload, Upload files, New folder, New file (which is selected and has a red box around it), Empty the folder, Icons view, Sort, Select all, Get info & Share, and Full Screen. To the right of the menu, the text 'Folder is empty' and 'Drop to add items' is displayed. The top right corner shows theme settings for 'Default' and 'English'. The bottom right corner shows 'Items: 0, Sum: 0 b'.

**The bare minimum for setting up a WordPress theme (`index.php` and `style.css`)**

The screenshot shows the WP File Manager interface. On the left, a sidebar displays a tree view of the file structure under the 'code' directory, including 'wp-admin', 'wp-content' (expanded to show 'cache', 'mu-plugins', 'plugins', and 'themes'), and a specific theme folder named 'com5940' (also expanded to show versions from 'twentyeleven' to 'twentytwelve'). The main panel shows a list of files in the 'style.css' folder of the 'com5940' theme. Two files are listed: 'index.php' and 'style.css'. Both files have 'read and write' permissions and were modified 'Today 10:33 AM'. The file 'style.css' is identified as a 'Cascading style sheet'. The status bar at the bottom indicates the path 'code/wp-content/themes/com5940', the selected file 'style.css', and 'Items: 2, Sum: 0 b'.

Name	Permissions	Modified	Size	Kind
index.php	read and write	Today 10:33 AM	0 b	PHP source
style.css	read and write	Today 10:33 AM	0 b	Cascading style sheet

Items: 2, Sum: 0 b

```
/*
Theme Name: com5940
Theme URI: https://ybsuen.github.io
Author: the WordPress team
Author URI: https://ybsuen.github.io
Description: Just a demo
Version: 1.0
*/
```

## Comment codes for style.css

Source: [https://codex.wordpress.org/The\\_Loop\\_in\\_Action](https://codex.wordpress.org/The_Loop_in_Action)

Howdy, master

11 0 + New Delete Cache

### Themes 12 Add New Search installed themes...

**The works of Berthe Morisot, 1800s-era French painter**

Active: Twenty Twenty-One Customize

New version available. [Update now](#)

The works of Berthe Morisot, 1800s-era French painter

com5940

**Twenty Eleven**

New version available. [Update now](#)

THE TWENTY ELEVEN THEME  
This is a free theme for the Twenty Eleven version of WordPress 3.2 or later. It's a clean, modern, and minimalist theme.

FEATURED Posts in Twenty Eleven  
Twenty Eleven uses Shiny Prints to power the Featured Post area on the Showcase Page Template. And it's easy to know Australia has Shiny Prints and it's always up-to-date.

ABOUT  
The 2011 default theme is dead. Long live Twenty Eleven! This theme is a clean, modern, and minimalist theme for WordPress 3.2 or later. It's a great choice for anyone looking for a clean, modern, and minimalist theme.

Twenty Fifteen

**Twenty Fifteen**

New version available. [Update now](#)

After the failure of the Middle Ages, they have again been given a golden age of culture and art. The new king, King Henry VIII, has made himself the center of the world which they made of them. These ones were made of him, and were called the Tudors. These ones were made of him, and were called the Tudors. These ones were made of him, and were called the Tudors. These ones were made of him, and were called the Tudors.

The Myth of the Pier

**Twenty Sixteen**

New version available. [Update now](#)

Come Sail Away with Me  
Individually, we are one drop. Together, we are an ocean.

ABOUT  
Twenty Sixteen is a minimalist site as well as a functional template with a refined light style. It's a clean, modern, and minimalist theme.

Twenty Seventeen

**Twenty Seventeen**

New version available. [Update now](#)

TWENTY SEVENTEEN  
Bringing your business site to life

ABOUT  
Twenty Seventeen is a clean, modern, and minimalist theme.

**Twenty Eighteen**

New version available. [Update now](#)

Welcome to the Swedish Museum of Modern Art

ABOUT  
Welcome to the Swedish Museum of Modern Art.

**Twenty Nineteen**

New version available. [Update now](#)

Welcome  
Digital strategy for unique small businesses

ABOUT  
Twenty Nineteen is a clean, modern, and minimalist theme.

**Twenty Fourteen**

New version available. [Update now](#)

FEATURED IMAGES REALLY SHINE IN THIS THEME

ABOUT  
Twenty Fourteen is a clean, modern, and minimalist theme.

**Twenty**

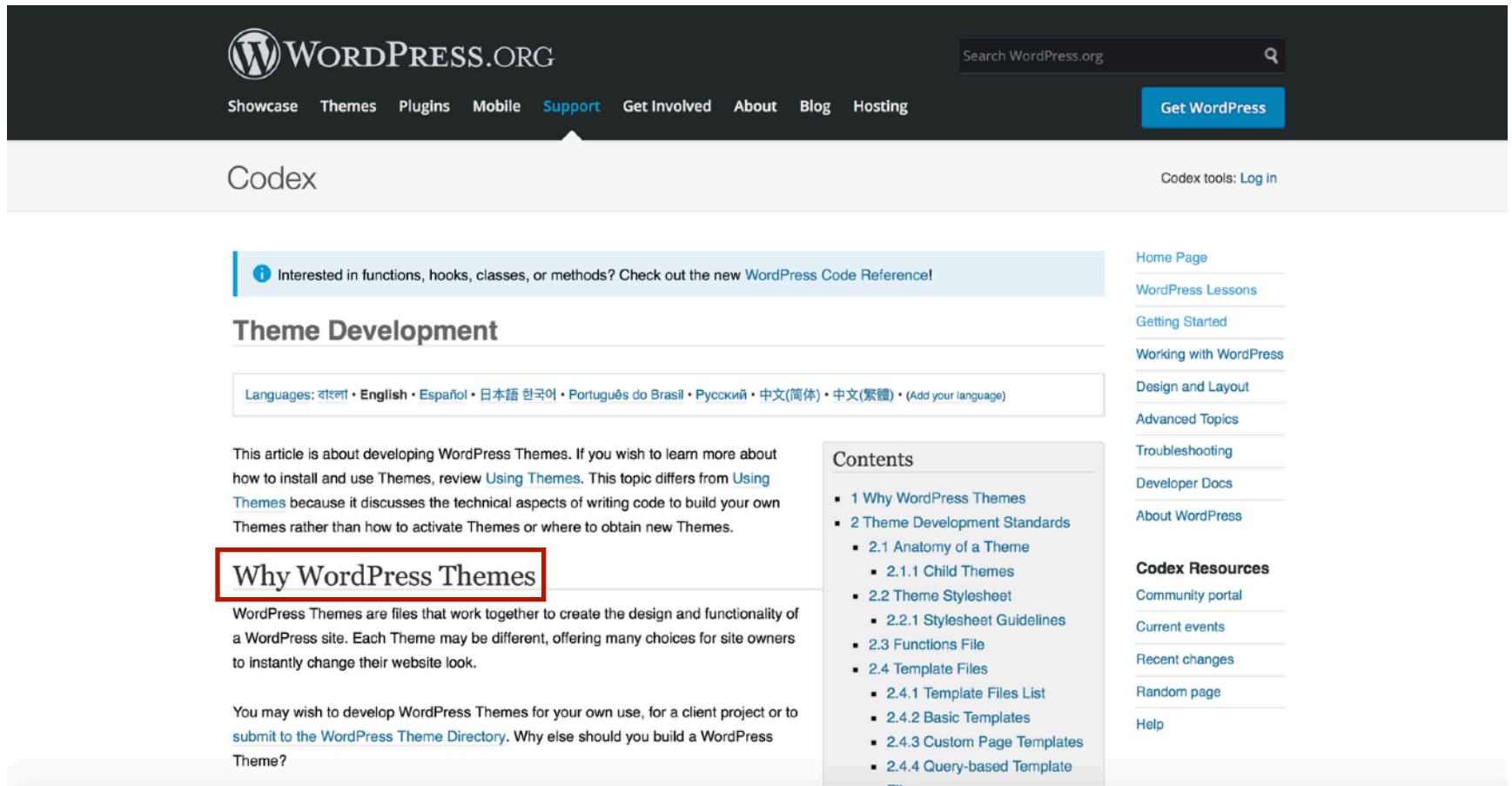
New version available. [Update now](#)

Popular Science

ABOUT  
Twenty is a clean, modern, and minimalist theme.

# **Three Essential Elements in Theming a WP Site**

[https://codex.wordpress.org/Theme\\_Development](https://codex.wordpress.org/Theme_Development)



The screenshot shows the WordPress.org website with a dark header. The header includes the WordPress logo, a search bar with the placeholder "Search WordPress.org", and a "Get WordPress" button. Below the header, the word "Codex" is displayed. A sidebar on the right lists various links such as Home Page, WordPress Lessons, Getting Started, Working with WordPress, Design and Layout, Advanced Topics, Troubleshooting, Developer Docs, and About WordPress. The main content area features a "Theme Development" section with a sub-section titled "Why WordPress Themes". The "Why WordPress Themes" section is highlighted with a red border.

WORDPRESS.ORG

Showcase Themes Plugins Mobile Support Get Involved About Blog Hosting

Get WordPress

Codex tools: Log in

Interested in functions, hooks, classes, or methods? Check out the new [WordPress Code Reference!](#)

## Theme Development

Languages: [রাষ্ট্রী](#) • English • Español • 日本語 한국어 • Português do Brasil • Русский • 中文(简体) • 中文(繁體) • (Add your language)

This article is about developing WordPress Themes. If you wish to learn more about how to install and use Themes, review [Using Themes](#). This topic differs from [Using Themes](#) because it discusses the technical aspects of writing code to build your own Themes rather than how to activate Themes or where to obtain new Themes.

### Why WordPress Themes

WordPress Themes are files that work together to create the design and functionality of a WordPress site. Each Theme may be different, offering many choices for site owners to instantly change their website look.

You may wish to develop WordPress Themes for your own use, for a client project or to submit to the [WordPress Theme Directory](#). Why else should you build a WordPress Theme?

### Contents

- 1 Why WordPress Themes
- 2 Theme Development Standards
  - 2.1 Anatomy of a Theme
    - 2.1.1 Child Themes
    - 2.2 Theme Stylesheet
      - 2.2.1 Stylesheet Guidelines
    - 2.3 Functions File
    - 2.4 Template Files
      - 2.4.1 Template Files List
      - 2.4.2 Basic Templates
      - 2.4.3 Custom Page Templates
      - 2.4.4 Query-based Template Files

**Codex Resources**

[Community portal](#)

[Current events](#)

[Recent changes](#)

[Random page](#)

[Help](#)

# Why WordPress Themes

---

WordPress Themes are files that work together to create the design and functionality of a WordPress site. Each Theme may be different, offering many choices for site owners to instantly change their website look.

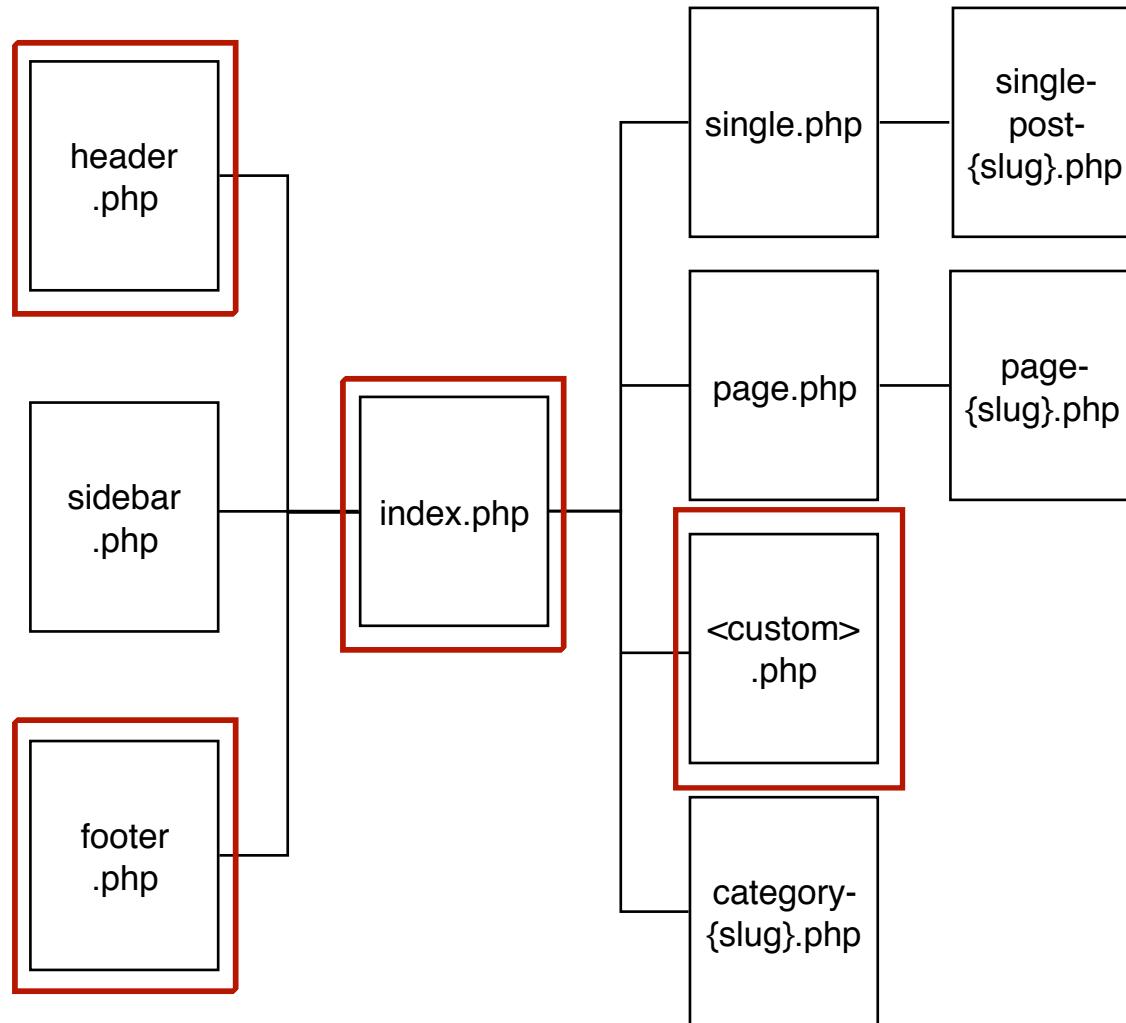
You may wish to develop WordPress Themes for your own use, for a client project or to submit to the WordPress Theme Directory. Why else should you build a WordPress Theme?

- ① **Templates**
- ② **Template Tags**
- ③ **WordPress Loop**
  - To create a unique look for your WordPress site.
  - To take advantage of templates, template tags, and the WordPress Loop to generate different website results and looks.
  - To provide alternative templates for specific site features, such as category pages and search result pages.
  - To quickly switch between two site layouts, or to take advantage of a Theme or style switcher to allow site owners to change the look of your site.

A WordPress Theme has many benefits, too.

**Which template files to work on and why?**

①



The **selected files** are the most basic and flexible ones for setting up your templates and can do most of the jobs the others can do with a little bit of tricks. Also, that is what you **need for the first assignment.**

# Which template tag to use and why?

②

If you need help, open a support chat on Pantheon.

## Edit Themes

### com5940: Main Index Template (index.php)

Select theme to edit: com5940 Select

Selected file content:

```
1 <!DOCTYPE html>
2 <html>
3
4     <head>          blog_info("template_url") template tag
5         <meta charset="utf-8">
6         <meta http-equiv="X-UA-Compatible" content="IE=edge">
7         <meta name="viewport" content="width=device-width, initial-scale=1">
8         <meta name="description" content="">
9         <meta name="author" content="">
10        <title>Clean Blog</title>
11        <!-- Bootstrap Core CSS -->
12        <link href="php bloginfo("template_url") ?&gt;/css/bootstrap.min.css"
13             rel="stylesheet"&gt;
14            &lt;!-- Custom CSS --&gt;
15            &lt;link href="css/clean-blog.min.css" rel="stylesheet"&gt;
16            &lt;!-- Custom Fonts --&gt;
17            &lt;link href="http://maxcdn.bootstrapcdn.com/font-</pre
```



### Theme Files

Stylesheet  
(style.css)

Main Index Template  
(index.php)

The `blog_info("template_url")` template tag is a php function that returns the directory location of the template files

```
<!DOCTYPE html>
<html>

    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <meta name="description" content="">
        <meta name="author" content="">
        <title>Clean Blog</title>
        <!-- Bootstrap Core CSS -->
        <link href="http://dev-demo5940.pantheonsite.io/wp-content/themes/com5961/css/bootstrap.min.css"
rel="stylesheet">
        <!-- Custom CSS -->
        <link href="css/clean-blog.min.css" rel="stylesheet">
        <!-- Custom Fonts -->
        <link href="http://maxcdn.bootstrapcdn.com/font-awesome/4.1.0/css/font-awesome.min.css"
rel="stylesheet" type="text/css">
        <link href="http://fonts.googleapis.com/css?family=Lora:400,700,400italic,700italic"
rel="stylesheet" type="text/css">
        <link href="http://fonts.googleapis.com/css?
family=Open+Sans:300italic,400italic,600italic,700italic,800italic,400,300,600,700,800"
rel="stylesheet" type="text/css">
        <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media
queries -->
        <!-- WARNING: Respond.js doesn't work if you view the page via file://
-->
        <!--[if lt IE 9]>
            <script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
            <script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
        <![endif]-->
    </head>
```

**Let's see an example.**

# Draw your inspirations here

我们无法为你创造灵感，却能带领你去发现它

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公·园

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## 张恩利个展：会动的房间

### A Room That Can Move



#### 基本信息

起止日期: 2020.11.7-2021.3.21

展馆: 上海当代艺术博物馆3楼、5楼

交通信息:

地址: 花园港路200号

地铁: 4、8号线 西藏南路站2号口

公交: 苗江路望达路站 (浦西滨江1路),

中山南路南车站路站 (45、66、109、144、306、327、  
780、869、大桥六线)

营业时间: 周二 - 周日 11: 00 - 19: 00

票价: 免费

[展览详情](#)

# The WordPress Loop

③

## The World's Simplest Index Page

The following is a functional index file (index.php), which displays the contents (and only the contents) of each post, according to the conditions used to prepare The Loop. This example demonstrates how little is actually necessary for the functioning of The Loop.

```
<?php  
get_header();  
if (have_posts()) :  
    while (have_posts()) :  
        the_post();  
        the_content();  
    endwhile;  
endif;  
get_sidebar();  
get_footer();  
?>
```

Fetch header info

while ... endwhile marks the beginning and end of the “Loop” in processing post content

Fetch sidebar and footer info

### The Default Loop

The following is a step-by-step look at the default usage of the Loop that comes with the *default* and *classic* theme in the standard installation of WordPress v1.5.

#### Begin The Loop

Found at the top of the default index.php template file is the starting code for [The Loop](#).

```
<?php if (have_posts()) : ?>  
<?php while (have_posts()) : the_post(); ?>
```

1. First, it checks whether any posts were discovered with the `have_posts()` function.
2. If there were any posts, a PHP `while` loop is started. A `while` loop will continue to execute as long as the condition in the parenthesis is logically true. So, as long as the function `have_posts()` returns a true value, the `while` loop will keep looping (repeating).

## Template Tags

- `get_header()`
- `have_posts()`
- `the_post()`
- `the_content()`
- `get_sidebar()`
- `get_footer()`

[https://codex.wordpress.org/The\\_Loop\\_in\\_Action](https://codex.wordpress.org/The_Loop_in_Action)

**For simplicity in explanation, we'll temporarily ignore `sidebar.php` for now.**

```
<?php
get_header();
if (have_posts()) :
    while (have_posts()) :
        the_post();
        the_content();
    endwhile;
endif;
get_footer();
?>
```

**Fetch header info**

**Fetch footer info**

Source: [https://codex.wordpress.org/The\\_Loop\\_in\\_Action](https://codex.wordpress.org/The_Loop_in_Action)

# **Where are header and footer?**

**header.php**

**footer.php**



**Why additional templates (e.g. header.php) if we already have index.php?**

## 热门推荐

[查看全部展览](#)

张恩利个展：会动的房间

上海当代艺术博物馆  
个人展/画展/互动



More, More, More

油罐艺术中心  
国际/当代/群展



公·园

多伦现代美术馆  
摄影/群展

[按条件查找](#)

[首页](#) / [热门推荐](#)

## 张恩利个展：会动的房间

### A Room That Can Move



#### 基本信息

起止日期: 2020.11.7-2021.3.21

展馆: 上海当代艺术博物馆3楼、5楼

交通信息:

地址: 花园港路200号

地铁: 4、8号线 西藏南路站2号口

公交: 苗江路望达路站 (浦西滨江1路),

中山南路南车站路站 (45、66、109、144、306、327、  
780、869、大桥六线)

营业时间: 周二 - 周日 11: 00 - 19: 00

票价: 免费

展览详情

刘海粟美术馆是我国...

浦东新区  
北  
花木

Leaflet | Map data © OpenStreetMap

首页 热门推荐 按条件查找 展馆 联系我们

所在区域 阳行区 Count 3

9 美博艺术中心	美博艺术中心作为“一...	
10 上海宝龙美术馆	上海宝龙美术馆是在...	
11 明珠美术馆	上海明珠美术馆是上...	

所在区域 静安区 Count 1

15 records
------------

① Download CSV View larger version



Wordpress Demo 5940 Howdy, admin Help ▾

Dashboard Posts Media Pages Comments Appearance Themes Customize Editor Plugins Users Tools Settings Pods Admin Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#). For details on applying updates, see the [Applying Upstream Updates](#) documentation. If you need help, open a support chat on Pantheon.

## Edit Themes

com5946: Main Index Template (index.php)

Selected file content:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="">
<meta name="author" content="">
<title>Clean Blog</title>
<!-- Bootstrap Core CSS -->
<link href=<?php bloginfo("template_url") ?>/css/bootstrap.min.css" rel="stylesheet">
<!-- Custom CSS -->
<link href=<?php bloginfo("template_url") ?>/css/clean-blog.min.css" rel="stylesheet">
<!-- Custom Font -->
<link href="http://maxcdn.bootstrapcdn.com/font-awesome/4.1.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">
<link href="http://fonts.googleapis.com/css?family=Lora:400,700,400italic,700italic" rel="stylesheet" type="text/css">
<link href="http://fonts.googleapis.com/css?family=Open+Sans:300italic,400italic,600italic,700italic,800italic,400,300,600,700,800" rel="stylesheet" type="text/css">
<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
<!--[if lt IE 9]>
<script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
<script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
<![endif]-->
</head>
<body>
```

# Move the repetitive head section and navigation bar into the header.php file.

Select theme to edit: com5946 Select

### Theme Files

- Stylesheet (style.css) [css](#)
- about.html [js](#)
- less [less](#)
- Theme Footer (footer.php) [Theme Footer](#)
- Theme Header (header.php) [Theme Header](#)
- Main Index Template (index.php) [Main Index Template](#)
- mail [Sidebar](#)
- Sidebar (sidebar.php) [fonts](#)

Wordpress Demo 5940 Home 0 New Help ▾

Howdy, admin

Dashboard Posts Media Pages Comments Appearance Themes Customize Editor Plugins Users Tools Settings Pods Admin Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#). For details on applying updates, see the [Applying Upstream Updates](#) documentation. If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Main Index Template (index.php)

Select theme to edit: com5940 Select

Selected file content:

```
41 <span class="icon-bar"></span>
42 <span class="icon-bar"></span>
43 </button>
44 <a class="navbar-brand" href="index.html">Start Bootstrap</a>
45 </div>
46 <!-- Collect the nav links, forms, and other content for toggling -->
47 <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
48   <ul class="nav navbar-nav navbar-right">
49     <li>
50       <a href="index.html">Home</a>
51     </li>
52     <li>
53       <a href="about.html">About</a>
54     </li>
55     <li>
56       <a href="post.html">Sample Post</a>
57     </li>
58     <li>
59       <a href="contact.html">Contact</a>
60     </li>
61   </ul>
62 </div>
63 <!-- /.navbar-collapse -->
64 </div>
65 <!-- /.container -->
66 </nav>
67 <!-- Page Header -->
68 <!-- Set your background image for this header on the line below. -->
69 <header class="intro-header" style="background-image: url('<?php bloginfo("template_url") ?>/img/home-bg.jpg')">
70   <div class="container">
71     <div class="row">
72       <div class="col-lg-8 col-lg-offset-2 col-md-10 col-md-offset-1">
73         <div class="site-heading">
```

Theme Files

- Stylesheet (style.css)
- css ▶
- about.html
- js ▶
- less ▶
- Theme Footer (footer.php)
- Theme Header (header.php)
- Main Index Template (index.php) Main Index Template (index.php)
- mail ▶
- Sidebar (sidebar.php)
- fonts ▶

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#).

For details on applying updates, see the [Applying Upstream Updates](#) documentation.  
If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Main Index Template ([index.php](#))

Selected file content:

```
1 <?php get_header() ?>
2     <!-- Page Header -->
3     <!-- Set your background image for this header on the line below. -->
4     <header class="intro-header" style="background-image: url('<?php
bloginfo("template_url") ?>/img/home-bg.jpg')">
5         <div class="container">
6             <div class="row">
7                 <div class="col-lg-8 col-lg-offset-2 col-md-10 col-md-offset-
1">
8                     <div class="site-heading">
9                         <h1>Clean Blog</h1>
10                        <hr class="small">
11                        <span class="subheading">A Clean Blog Theme by Start
Bootstrap</span>
12                            </div>
13                        </div>
14                    </div>
```

Substitute the emptied out area with the get\_header() template tag.

Select

Stylesheet

(style.css)

css ▶

about.html

js ▶

less ▶

Theme Footer

(footer.php)

Theme Header

(header.php)

Main Index Template

(index.php)

mail ▶

- Dashboard
- Posts
- Media
- Pages
- Comments
- Appearance**
- Themes
- Customize
- Editor**
- Plugins
- Users
- Tools
- Settings
- Pods Admin
- Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#).

For details on applying updates, see the [Applying Upstream Updates](#) documentation.  
If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Theme Header (header.php)

Selected file content:

1 |

**Open the header.php file and prepare to paste the copied codes into the blank page.**

Select

(style.css)

css ▶

about.html

js ▶

less ▶

Theme Footer  
(footer.php)

**Theme Header  
(header.php)**

Main Index Template  
(index.php)

mail ▶

Dashboard

Posts

Media

Pages

Comments

Appearance

Themes

Customize

Editor

Plugins

Users

Tools

Settings

Pods Admin

Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#).

For details on applying updates, see the [Applying Upstream Updates](#) documentation.  
If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Theme Header (header.php)

Selected file content:

```
1 <!DOCTYPE html>
2 <html>
3
4     <head>
5         <meta charset="utf-8">
6         <meta http-equiv="X-UA-Compatible" content="IE=edge">
7         <meta name="viewport" content="width=device-width, initial-scale=1">
8         <meta name="description" content="">
9         <meta name="author" content="">
10        <title>Clean Blog</title>
11        <!-- Bootstrap Core CSS -->
12        <link href="php bloginfo( "template_url" ) ?&gt;/css/bootstrap.min.css"
13             rel="stylesheet"&gt;
14        &lt;!-- Custom CSS --&gt;
15        &lt;link href="<?php bloginfo( "template_url" ) ?&gt;/css/clean-blog.min.css"
16             rel="stylesheet"&gt;
17        &lt;!-- Custom Fonts --&gt;</pre
```

Paste the head section and nav bar codes into the header.php file.

Stylesheet

(style.css)

css ▶

about.html

js ▶

less ▶

Theme Footer

(footer.php)

Theme Header

(header.php)

Main Index Template

(index.php)

mail ▶

**Do the same to the footer.php**

Wordpress Demo 5940 Howdy, admin Help ▾

Dashboard Posts Media Pages Comments Appearance Themes Customize Editor Plugins Users Tools Settings Pods Admin Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#). For details on applying updates, see the [Applying Upstream Updates](#) documentation. If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Main Index Template (index.php)

Select theme to edit: com5940 Select

Selected file content:

```
113 </li>
114 <li>
115 <a href="#">
116 <span class="fa-stack fa-lg">
117 <i class="fa fa-circle fa-stack-2x"></i>
118 <i class="fa fa-facebook fa-stack-1x fa-inverse"></i>
119 </span>
120 </a>
121 </li>
122 <li>
123 <a href="#">
124 <span class="fa-stack fa-lg">
125 <i class="fa fa-circle fa-stack-2x"></i>
126 <i class="fa fa-github fa-stack-1x fa-inverse"></i>
127 </span>
128 </a>
129 </li>
130 </ul>
131 <p class="copyright text-muted">Copyright © Your Website 2014</p>
132 </div>
133 </div>
134 </div>
135 </footer>
136 <!-- jQuery -->
137 <script src="php bloginfo('template_url') ?&gt;/js/jquery.js"&gt;&lt;/script&gt;
138 &lt;!-- Bootstrap Core JavaScript --&gt;
139 &lt;script src="<?php bloginfo('template_url') ?&gt;/js/bootstrap.min.js"&gt;&lt;/script&gt;
140 &lt;!-- Custom Theme JavaScript --&gt;
141 &lt;script src="<?php bloginfo('template_url') ?&gt;/js/clean-blog.min.js"&gt;&lt;/script&gt;
142 &lt;/body&gt;
143
144 &lt;/html&gt;</pre

Theme Files



- Stylesheet (style.css)
- css ▶
- about.html
- js ▶
- less ▶
- Theme Footer (footer.php)
- Theme Header (header.php)
- Main Index Template (index.php) Main Index Template (index.php)
- mail ▶
- Sidebar (sidebar.php)
- fonts ▶

```

Wordpress Demo 5940 Home 0 + New Howdy, admin S Help ▾

Dashboard Posts Media Pages Comments Appearance Themes Customize Editor Plugins Users Tools Settings Pods Admin Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#). For details on applying updates, see the [Applying Upstream Updates](#) documentation. If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Theme Footer (footer.php)

Selected file content:

```
1 | 
```

Select theme to edit: com5940 Select

### Theme Files

- Stylesheet (style.css)
  - css ►
  - about.html
  - js ►
  - less ►
- Theme Footer (footer.php)
- Theme Header (header.php)
- Main Index Template (index.php)
- mail ►
- Sidebar (sidebar.php)
- fonts ►

Wordpress Demo 5940 1 0 + New

Howdy, admin

Dashboard Posts Media Pages Comments Appearance Themes Customize Editor Plugins Users Tools Settings Pods Admin Collapse menu

WordPress 5.0.3 is available! Please update from [your Pantheon dashboard](#). For details on applying updates, see the [Applying Upstream Updates](#) documentation. If you need help, open a support chat on Pantheon.

## Edit Themes

com5961: Theme Footer (footer.php)

Selected file content:

```
14          </li>
15          <li>
16              <a href="#">
17                  <span class="fa-stack fa-lg">
18                      <i class="fa fa-circle fa-stack-2x"></i>
19                      <i class="fa fa-facebook fa-stack-1x fa-inverse"></i>
20                  </span>
21              </a>
22          </li>
23          <li>
24              <a href="#">
25                  <span class="fa-stack fa-lg">
26                      <i class="fa fa-circle fa-stack-2x"></i>
27                      <i class="fa fa-github fa-stack-1x fa-inverse"></i>
28                  </span>
29              </a>
30          </li>
31      <ul>
32          <p class="copyright text-muted">Copyright © Your Website 2014</p>
33      </ul>
34  </div>
35  </div>
36</footer>
37<!-- jQuery -->
38<script src="php bloginfo('template_url') ?&gt;/js/jquery.js"&gt;&lt;/script&gt;
39&lt;!-- Bootstrap Core JavaScript --&gt;
40&lt;script src="<?php bloginfo('template_url') ?&gt;/js/bootstrap.min.js"&gt;&lt;/script&gt;
41&lt;!-- Custom Theme JavaScript --&gt;
42&lt;script src="<?php bloginfo('template_url') ?&gt;/js/clean-blog.min.js"&gt;&lt;/script&gt;
43&lt;/body&gt;
44
45&lt;/html&gt;</pre

Select theme to edit: com5961 Select



### Theme Files

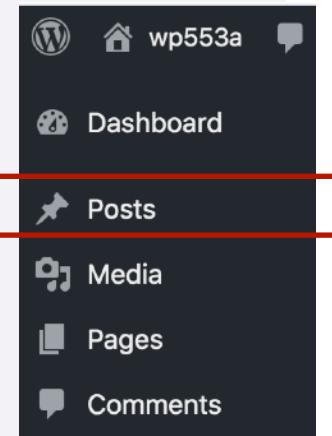


- Stylesheet (style.css)
- css ▶ about.html
- js ▶
- less ▶
- Theme Footer (footer.php) Selected
- Theme Header (header.php)
- Main Index Template (index.php)
- mail ▶
- Sidebar (sidebar.php)
- fonts ▶

```

```
<?php
get_header();
if (have_posts()) :
    while (have_posts()) :
        the_post();
        the_content();
    endwhile;
endif;
get_footer();
?>
```

Insert the looping codes into the index.php template to display all the “post” data. The “page” data will be handled separately.



Source: [https://codex.wordpress.org/The\\_Loop\\_in\\_Action](https://codex.wordpress.org/The_Loop_in_Action)

# Create custom content type using Pods.



## Pods – Custom Content Types and Fields

[Activate](#)[More Details](#)

Pods is a framework for creating, managing, and deploying customized content types and fields.

By [Pods Framework Team](#)

★★★★★ (321)

100,000+ Active  
Installations

Last Updated: 1 week ago

✓ Compatible with your version of WordPress

Howdy, master [ ]

COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions Appearance Plugins

All (8) | Active (8) | Must-Use (1) | Drop-in (1) | Auto-updates Disabled (8)

Screen Options ▾ Help ▾

Search installed plugins...

Bulk actions ▾ Apply 8 items

<input type="checkbox"/> Plugin	Description	Automatic Updates
<input type="checkbox"/> Cache Cleaner - Scheduled <a href="#">Deactivate</a>	Scheduled Cache Clean UP. Keep your Cache Folders Fresh. Version 1.0.7   By Lumiverse Dynamic   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Classic Editor <a href="#">Deactivate</a>   <a href="#">Settings</a>	Enables the WordPress classic editor and the old-style Edit Post screen with TinyMCE, Meta Boxes, etc. Supports the older plugins that extend this screen. Version 1.6   By WordPress Contributors   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Easy Query <a href="#">Deactivate</a>   <a href="#">Settings</a>   <a href="#">Query Builder</a>	A query builder plugin for WordPress. Version 2.0.4   By Darren Cooney   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Pods - Custom Content Types and Fields <a href="#">Add-Ons</a>   <a href="#">Opt In</a>   <a href="#">Deactivate</a>	Pods is a framework for creating, managing, and deploying customized content types and fields Version 2.7.26   By Pods Framework Team   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Simple Custom CSS and JS <a href="#">Settings</a>   <a href="#">Deactivate</a>	Easily add Custom CSS or JS to your website with an awesome editor. Version 3.34.1   By SilkyPress.com   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Pods Admin <a href="#">Edit Pods</a>   <a href="#">Create File</a>   <a href="#">Components</a>	Plugin for developers. Display in the admin bar, the name of the template (PHP file) for this page. Display with different colors if the template owns to the current theme, the theme parent, or a plugin. An option page allows to chose if every logged user can see the template file in the admin-bar, or just the administrators of the website. (with "administrator" role) Version 4.5.0   By Gilles Dumas   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> Cache Cleaner <a href="#">WP File Manager</a>	Manage your WP files. Version 6.9   By mnndpsingh287   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
<input type="checkbox"/> WP File Manager <a href="#">Collapse menu</a>	Very fast caching plugin for WordPress. Version 1.7.1   By Automatic   <a href="#">View details</a>	<a href="#">Enable auto-updates</a>
	Description	Automatic Updates

Pods Admin Cache Cleaner WP File Manager Collapse menu

Add New

Components

- Migrate Packages
- Pod Pages
- Pod Templates
- Roles & Capabilities

Cache Settings

L Add-Ons Help

Add New Pod [« Back to Manage](#)

1 Create or Extend

2 Configure

Pods are content types that you can customize and define fields for based on your needs. You can choose to create a Custom Post Type, Custom Taxonomy, or Custom Settings Pages for site-specific data. You can also extend existing content types like WP Objects such as Post Types, Taxonomies, Users, or Comments.

Not sure what content type you should use? Check out our [Content Type Comparison](#) to help you decide.

**Create New**

Create entirely new content types using Post Types, Taxonomies, or Custom Settings Pages.

**Extend Existing**

Extend any existing content type within WordPress, including Post Types (Posts, Pages, etc), Taxonomies (Categories, Tags, etc), Media, Users, or Comments.

Dashboard

Posts

Media

Pages

Comments

Custom CSS &amp; JS

Exhibitions

Appearance

Plugins

Users

Tools

Settings

Pods Admin

Edit Pods

Add New

Components

- Migrate Packages

- Pod Pages

- Pod Templates

- Roles &amp; Capabilities

Settings

↳ Add-Ons

Help

Cache Cleaner

WP File Manager

Collapse menu

## Add New Pod

[« Back to Manage](#)

1 Create or Extend

✓ 2 Configure

Creating a new Content Type allows you to control exactly what that content type does, how it acts like, the fields it has, and the way you manage it.

## Create a New Content Type

Content Type ?Custom Post Type (like Posts or Pages) vSingular Label ?Plural Label ?[Advanced +](#)[Start Over](#)[Next Step](#)

W COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions Appearance Plugins Users Tools Settings

**Pods Admin**

Edit Pods Add New Components

- Migrate Packages
- Pod Pages
- Pod Templates
- Roles & Capabilities

Settings

- ↳ Add-Ons

Help

Cache Cleaner WP File Manager

Collapse menu

## Add New Pod [« Back to Manage](#)

**1 Create or Extend** ✓ **2 Configure**

Creating a new Content Type allows you to control exactly what that content type does, how it acts like, the fields it has, and the way you manage it.

Create a New Content Type

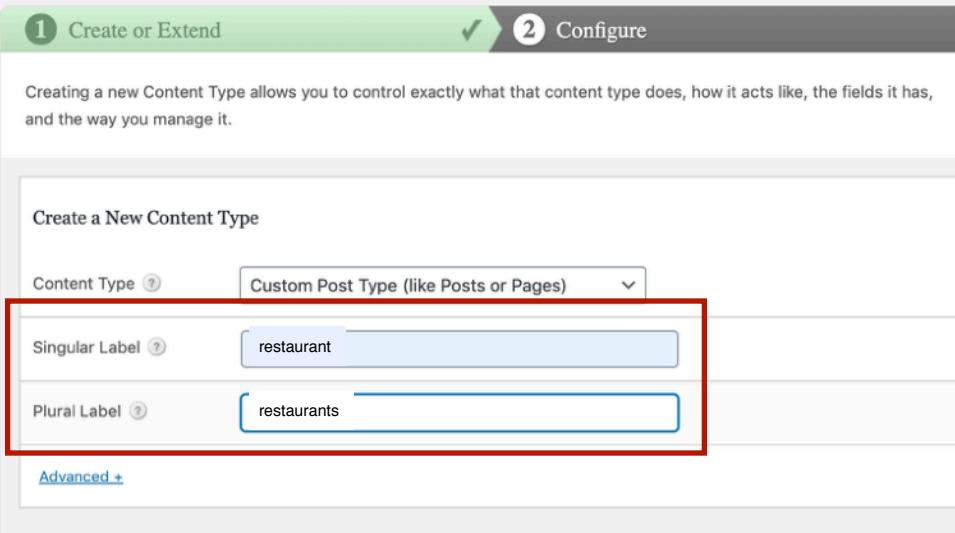
Content Type [?](#) Custom Post Type (like Posts or Pages)

Singular Label [?](#) restaurant

Plural Label [?](#) restaurants

[Advanced +](#)

[Start Over](#) [Next Step](#)



W COM5940 11 0 New Delete Cache Howdy, master

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings

**Pods Admin**

Edit Pods Add New Components - Migrate Packages - Pod Pages - Pod Templates - Roles & Capabilities Settings ↗ Add-Ons Help

Cache Cleaner WP File Manager

**Edit Pod: restaurant** [Edit](#)

Success! Pod created successfully.

Manage Fields Labels Admin UI Advanced Options Auto Template Options REST API

Manage Fields

No fields have been added yet

Label	Name	Field Type
Label	Name	Field Type

Add Field

Manage ([Back to Manage](#))

[Delete Pod](#) [Save Pod](#)

Success! Pod created successfully.

Manage Fields Labels Admin UI Advanced Options Auto Template Options REST API

Add Field

Manage (« Back to Manage) Delete Pod Save Pod

New Field

Basic Additional Field Options Advanced REST API

Label chi\_title Name chi\_title Field Type Plain Text

Description

Field Type Plain Text

Options  Required

Cancel Save Field

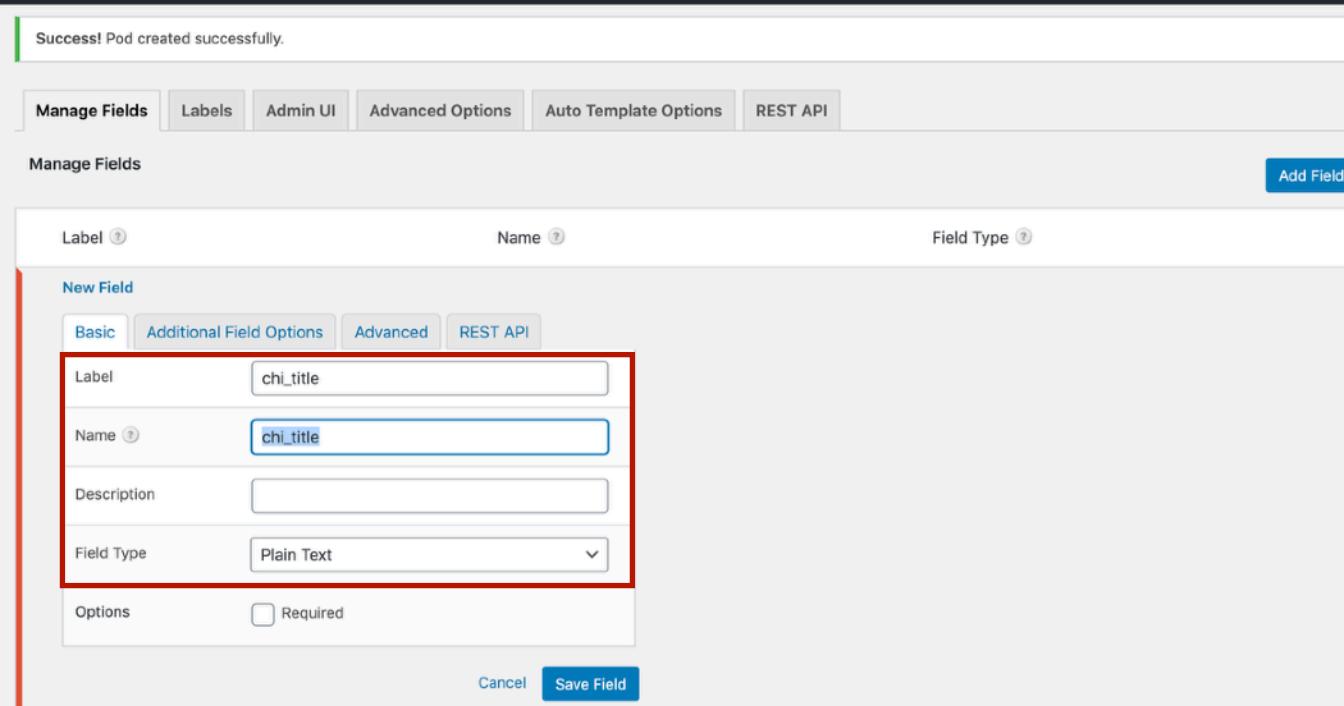
Label Name Field Type Add Field

Howdy, master

COM5940 11 0 New Delete Cache

Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings

Pods Admin Edit Pods Add New Components - Migrate Packages - Pod Pages - Pod Templates - Roles & Capabilities Settings Help Cache Cleaner WP File Manager Collapse menu



Version 5.6

Success! Pod created successfully.

Manage Fields Labels Admin UI Advanced Options Auto Template Options REST API

Manage Fields Add Field

Label ⓘ	Name ⓘ	Field Type ⓘ
chi_title	chi_title	Plain Text
Label ⓘ	Name ⓘ	Field Type ⓘ

Add Field Manage (« Back to Manage) Delete Pod Save Pod

**Pods Admin**

Edit Pods

Add New

Components

- Migrate Packages
- Pod Pages
- Pod Templates
- Roles & Capabilities

Settings

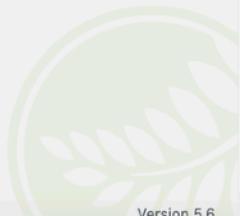
- ↳ Add-Ons

Help

Cache Cleaner

WP File Manager

Collapse menu



Version 5.6

Success! Pod created successfully.

Manage Fields Labels Admin UI Advanced Options Auto Template Options REST API

Manage Fields Add Field

Label	Name	Field Type
chi_title	chi_title	Plain Text

New Field

Basic Additional Field Options Advanced REST API

Label pic1

Name

Description

Field Type

Options

Text

- Plain Text
- Website
- Phone
- E-mail
- Password

Paragraph

- Plain Paragraph Text
- WYSIWYG (Visual Editor)
- Code (Syntax Highlighting)

Date / Time

- Date / Time
- Date
- Time

Number

- Plain Number
- Currency

Relationships / Media

File / Image / Video

Image

Relationship

Other

Yes / No

Color Picker

Manage (« Back to Manage) Delete Pod Save Pod

Version 5.6

Success! Pod created successfully.

Manage Fields Labels Admin UI Advanced Options Auto Template Options REST API

Manage Fields Add Field

Label	Name	Field Type
chi_title	chi_title	Plain Text

New Field

Basic Additional Field Options Advanced REST API

Label pic1

Name pic1

Description

Field Type File / Image / Video

Options  Required

Cancel Save Field

Manage ( Back to Manage) Delete Pod Save Pod

Labels Name Field Type

Add Field

Howdy, master

WP Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings

Pods Admin Edit Pods Add New Components - Migrate Packages - Pod Pages - Pod Templates - Roles & Capabilities Settings  Add-Ons Help Cache Cleaner WP File Manager

Collapse menu

https://dev-wp5940.pantheonsite.io/wp-admin/admin.php?page=pods&action=edit&id=107&do=create#save-field

Version 5.6

COM5940 11 0 + New Delete Cache

Howdy, master

Posts

Media

Pages

Comments

Custom CSS & JS

Exhibitions

restaurant

Appearance

Plugins

Users

Tools

Settings

**Pods Admin**

Edit Pods

Add New

Components

- Migrate Packages
- Pod Pages
- Pod Templates
- Roles & Capabilities

Settings

- ↳ Add-Ons

Help

Cache Cleaner

WP File Manager

Collapse menu

Success! Pod created successfully.

Manage Fields Labels Admin UI Advanced Options Auto Template Options REST API

Manage Fields

Add Field

Manage (« Back to Manage)

Delete Pod Save Pod

Label	Name	Field Type
chi_title	chi_title	Plain Text
pic1	pic1	File / Image / Video

Add Field

Howdy, master

COM5940 11 0 + New Delete Cache

Media

Pages

Comments

Custom CSS & JS

Exhibitions

restaurant

Appearance

Plugins

Users

Tools

Settings

**Pods Admin**

Edit Pods

Add New

Components

- Migrate Packages

- Pod Pages

- Pod Templates

- Roles & Capabilities

Settings

↳ Add-Ons

Help

Cache Cleaner

WP File Manager

Collapse menu

Manage Fields Labels Admin UI **Advanced Options** Auto Template Options REST API

Public

Publicly Queryable

Exclude from Search

User Capability

Additional User Capabilities

Enable Archive Page

Hierarchical

Rewrite

Custom Rewrite Slug

Rewrite with Front

Rewrite Feeds

Rewrite Pages

Query Var

Exportable

Default Status

Manage ([Back to Manage](#))

Delete Pod

Save Pod

Manage ([Back to Manage](#))

Delete Pod

Save Pod

W Home COM5940 11 0 + New Delete Cache

Rewrite With Front

Rewrite Feeds

Rewrite Pages

Query Var

Exportable

Default Status Draft

Supports

Title

Editor

Author

Featured Image

Excerpt

Trackbacks

Custom Fields

Comments

Revisions

Page Attributes

Post Formats

Advanced Supports

Built-in Taxonomies

Categories (category) (category)

Link Categories (link\_category) (link\_category)

Tags (post\_tag) (post\_tag)

Manage ([« Back to Manage](#))

Delete Pod

Save Pod

11 0 + New Delete Cache

– Pod Templates

– Roles & Capabilities

Settings

↳ Add-Ons

Help

Cache Cleaner

WP File Manager

Collapse menu

Rewrite With Front

Rewrite Feeds

Rewrite Pages

Query Var

Exportable

Default Status Draft

Supports

Title

Editor

Author

Featured Image

Excerpt

Trackbacks

Custom Fields

Comments

Revisions

Page Attributes

Post Formats

Advanced Supports

Built-in Taxonomies

Categories (category) (category)

Link Categories (link\_category) (link\_category)

Tags (post\_tag) (post\_tag)

Manage ([« Back to Manage](#))

Delete Pod

Save Pod

Howdy, master

## Manage Components

Name	Category	Description
Advanced Content Types	Advanced	A content type that exists outside of the WordPress post and postmeta table and uses custom tables instead. You most likely don't need these and we strongly recommend that you use Custom Post Types or Custom Taxonomies instead. FOR ADVANCED USERS ONLY. Version 2.3   by Pods Framework Team
Advanced Relationships	Advanced	Add advanced relationship objects for relating to including Database Tables, Multisite Networks, Multisite Sites, Themes, Page Templates, Sidebars, Post Type Objects, and Taxonomy Objects Version 2.3   by Pods Framework Team
Builder Integration	Integration	Integration with the Builder theme / child themes from iThemes; Adds new modules to the Layout engine Version 1.0   by Pods Framework Team
Helpers	Advanced	A holdover from Pods 1.x for backwards compatibility purposes, you most likely don't need these and we recommend you use our WP filters and actions instead. Version 2.3   by Pods Framework Team
Markdown Syntax	Field Types	Integration with Markdown ( <a href="http://michelf.com/projects/php-markdown/">http://michelf.com/projects/php-markdown/</a> ); Adds an option to enable Markdown syntax for Paragraph text fields. Version 1.0   by Pods Framework Team
Migrate: Import from the Custom Post Type UI plugin	Migration	Import Custom Post Types and Taxonomies from Custom Post Type UI ( <a href="http://webdevstudios.com/plugin/custom-post-type-ui/">http://webdevstudios.com/plugin/custom-post-type-ui/</a> ) Version 1.0   by Pods Framework Team
Migrate: Packages	Migration	Import/Export your Pods, Fields, and other settings from any Pods site; Includes an API to Import/Export Packages via PHP Version 2.0   by Pods Framework Team
Pages	Advanced	Creates advanced URL structures using wildcards in order to enable the front-end display of Pods Advanced Content Types. Not recommended for use with other content types. Version 2.3   by Pods Framework Team
Roles and Capabilities	Tools	Create and Manage WordPress User Roles and Capabilities; Uses the 'Members' plugin filters for additional plugin integrations; Portions of code based on the 'Members' plugin by Justin Tadlock Version 1.0   by Pods Framework Team
Table Storage	Advanced	Enable a custom database table for your custom fields on Post Types, Media, Taxonomies, Users, and Comments. Version 2.3   by Pods Framework Team
Templates	Advanced	An easy to use templating engine for Pods. Use {@field_name} magic tags to output values, within your HTML markup. Version 2.3   by Pods Framework Team
Translate Pods Admin	I18n	Allow UI of Pods and fields to be translated. Version 0.2   by Pods Framework Team
Name	Category	Description

12 components

**Make sure these options are enabled.**

- Components**
- Pods Admin**
- Advanced Content Types**
- Advanced Relationships**
- Markdown Syntax**
- Roles and Capabilities**
- Templates**

**Friends of Pods**

We need **YOU** in 2020 and beyond

Things are changing for Pods and we want you to be a part of it! Our goal is to be fully funded by users like you. Help us reach our goal of 200 recurring donors in 2020.

[Learn More](#) [JOIN NOW](#)

# Loop Through the Post Content using EasyQuery.



**Easy Query – WP Query Builder**

Active

[More Details](#)

Create a custom WordPress query in seconds with Easy Query.

By Darren Cooney

★★★★★ (5)

1,000+ Active Installations

Last Updated: 1 year ago

Untested with your version of WordPress

```
4     <div class="row">
5         <div class="p-4 bg-white ml-auto col-md-5 border" style="margin:40px 0 40px 0;">
6             <h1>0 my friend</h1>
7             <p class="mb-3">Would I could describe these conceptions, could impress upon paper all
8             </div>
9         </div>
10    </div>
11 </div>
12 <div class="py-5">
13 <div class="container">
14 <?php
15 if (have_posts()) :
16     while (have_posts()) :
17         the_post(); ?>
18         <?php the_content();
19     endwhile;
20     endif; ?>
21 </div>
22 </div>
23 <?php wp_footer(); ?>
24 <?php get_footer() ?>
```

The **while** loop display  
each post at a time.

Howdy, master

COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings

Easy Query

Create complex WordPress queries with the click of a button!

About the Plugin

Easy Query is the fastest and simplest way to build complex WordPress queries without writing a single line of code.

Create a custom query using the [Query Builder](#) then simply place the generated shortcode or `WP_Query()` directly into a template, content editor or widget area of your theme.

Version: 2.0.4 Released: August 11, 2019

Quick Links: [Official Website](#) [Documentation](#) [Examples](#) [Support](#)

Get Easy Query Pro

Upgrading to Easy Query Pro unlocks added features and functionality.

Learn More

Read/Write Access

✓ Read/Write access is enabled within the /easy-query/core/templates/ directory.

Easy Query Options

Customize your version of Easy Query by updating the various settings below.

Disable CSS  I want to use my own CSS styles [View Easy Query CSS](#)

Editor Button  Hide Query Builder button in WYSIWYG editor.

Dynamic Content  Disable dynamic population of categories, tags and authors in the Query Builder.  
Recommended only if you have an extraordinary number of categories, tags and/or authors.

Other Plugins

A Ajax Load More A powerful plugin to add infinite scroll functionality to your website.

I Instant Images Upload quality, high resolution photos directly to your media library without leaving WordPress.

P Post Explorer A premium WordPress plugin for loading single posts and custom post types with Ajax.

V Velocity Improve website performance by lazy loading and customizing your embedded

Howdy, master

COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings General Writing Reading Discussion Media Permalinks Privacy Easy Query WP Super Cache Pantheon Page Cache Pods Admin Cache Cleaner WP File Manager

Template **Query Builder** Examples Pro

## Easy Query: Template

The library of Easy Query templates for use throughout your theme.

**Default Template**

Template Alias: Default Template ID: default

Enter the HTML and PHP code for the Default template

```
1 <li <?php if (!has_post_thumbnail()) { ?> class="no-img"<?php } ?>>
2   <?php if ( has_post_thumbnail() ) {
3     the_post_thumbnail('eq-thumbnail');
4   ?>
5   <h3><a href=<?php the_permalink(); ?>><?php the_title(); ?></a></h3>
6   <p class="entry-meta"><?php the_time('F d, Y') ?></p>
7   <?php the_excerpt(); ?>
8 </li>
```

**Save Template**

Unlock unlimited templates with **Easy Query Pro**

**Read/Write Access**

Read/Write access is enabled within the /easy-query/core/templates/ directory.

**Templating Help**

**What is a template?**  
A template is essentially a snippet of code that will execute over and over within a [WordPress loop](#). Easy Query uses templates to display data retrieved from a WP Query.  
[Learn More](#)

**Can I include PHP in a template?**  
Yes, PHP and core WordPress functions such as, `the_title()` and `the_permalink()` are required.

COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings

General Writing Reading Discussion Media Permalinks Privacy

**Easy Query**

WP Super Cache Pantheon Page Cache

Pods Admin Cache Cleaner WP File Manager

Howdy, master

Template Query Builder Examples Pro

## Easy Query: Template

The library of Easy Query templates for use throughout your theme.

**Default Template**

Template Alias: Default Template ID: default

Enter the HTML and PHP code for the Default template

```
<h3><a href="#><?php the_permalink(); ?>"><?php the_title(); ?></a></h3>
```

**Save Template**

Unlock unlimited templates with **Easy Query Pro**

**Read/Write Access**

Read/Write access is enabled within the /easy-query/core/templates/ directory.

**Templating Help**

**What is a template?**  
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[→ Learn More](#)

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11 New Delete Cache

Howdy, master

Posts

Media

Pages

Comments

Custom CSS & JS

Exhibitions

restaurant

Appearance

Plugins

Users

Tools

Settings

General

Writing

Reading

Discussion

Media

Permalinks

Privacy

Easy Query

WP Super Cache

Pantheon Page Cache

Pods Admin

Cache Cleaner

WP File Manager

Collapse menu

**Query Builder**

WP\_Query Generator

COLLAPSE ALL

-- Jump to Option --

**Options**

Type

Select the container type that will wrap your Easy Query content.

<ul> <!-- posts --> </ul>

<ol> <!-- posts --> </ol>

<div> <!-- posts --> </div>

Classes

Target your content by adding custom classes to the container.

blog-listing listing content etc.

**Paging**

Enable

True      False

Allow Easy Query to page content.  
e.g. Page: 1 2 3

Unlock pagination styles with **Easy Query Pro**

**Template**

Select the Easy Query [template](#) you would like to use.

Default

Unlock unlimited templates with **Easy Query Pro**

Shortcode Output

Add the following shortcode into the content editor, template file or widget area of your theme.

```
[easy_query container="div" post_type="post" category_in="" category_not_in=""]
```

Reset

Copy Shortcode

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油罐艺术中心  
国际/当代/群展



公·园

多伦现代美术馆  
摄影/群展

[按条件查找](#)

- Posts
- Media
- Pages
- Comments
- Custom CSS & JS
- Exhibitions
- restaurant
- Appearance
- Plugins
- Users
- Tools
- Settings**
- General
- Writing
- Reading
- Discussion
- Media
- Permalinks
- Privacy
- Easy Query**
- WP Super Cache
- Pantheon Page Cache
- Pods Admin**
- Cache Cleaner**
- WP File Manager
- Collapse menu

Unlock pagination styles with **Easy Query Pro**

### Template

Select the Easy Query **template** you would like to use.

Default

Unlock unlimited templates with **Easy Query Pro**

### Posts Per Page

Select the number of posts to load with each request.

3

### Post Types

Select Post Types to query.

Post  exhibition  Page  restaurant

### Category

**Include**  
A comma separated list of categories to include by id. (8, 15, 22 etc...) [» view example](#)

Select Categories

-- Jump to Option --

### Shortcode Output

Add the following shortcode into the content editor, template file or widget area of your theme.

```
[easy_query container="div" posts_per_page="3" post_type="exhibition" category_in="" category_not_in=""]
```

[Reset](#)

[Copy Shortcode](#)

Howdy, master

COM5940 11 0 + New Delete Cache

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings General Writing Reading Discussion Media Permalinks Privacy Easy Query WP Super Cache Pantheon Page Cache Pods Admin Cache Cleaner WP File Manager

## Easy Query: Query Builder

Create your own Easy Query [Shortcode](#) by adjusting the parameters below.

Query Builder **WP\_Query Generator**

Copy and paste the following WP\_Query into a [PHP template](#) within your WordPress theme.

```
<?php
$paged = (get_query_var('paged')) ? get_query_var('paged') : 1;
$args = array(
    'post_type' => array('exhibition'),
    'post_status' => 'publish',
    'order' => 'DESC',
    'orderby' => 'date',
    'posts_per_page' => 3,
    'paged' => $paged,
);
// WP_Query
$eq_query = new WP_Query( $args );
if ($eq_query->have_posts()): // The Loop
?>
<div class="wp-easy-query">
<div class="wp-easy-query-posts">
<div class="">
<?php
while ($eq_query->have_posts()): $eq_query->the_post();
?>
<h3><a href="php the_permalink(); ?&gt;"<?php the_title(); ?></a></h3>
<?php endwhile; wp_reset_query(); ?>
</div>
</div>
<?php include(EQ_PAGING); ?>
</div>
<?php endif; ?>
```

Save Your Query

Save, edit and delete past queries with **Easy Query Pro**

Save Query

About Your Query

This WP\_Query has been generated by the selected parameters on the Query Builder page. To make adjustments to this query you should return to the Query Builder.

^ Back to Top

Easy Query is made with ❤ by [Connekt](#)

Version 5.6

**Creating a custom template for  
the home page.**

code .git wp-admin wp-content cache mu-plugins plugins themes com5940 assets css img js vendor pic twentyeleven twentyfifteen twentycfourteen

home.php

```
105     </div>
106     </header><!-- End Header -->
107
108    <?php
109    $paged = (get_query_var('paged')) ? get_query_var('paged') : 1;
110    $args = array(
111        'post_type' => array('exhibition'),
112        'post_status' => 'publish',
113        'order' => 'DESC',
114        'orderby' => 'date',
115        'posts_per_page' => 3,
116        'paged' => $paged,
117    );
118
119 // WP_Query
120 $wp_query = new WP_Query( $args );?>
121 <main id="main">
122
123     <!-- ===== 近期热门 ===== -->
124     <section id="browsing" class="browsing">
125         <div class="container">
126             <div class="section-title">
127                 <h1>热门推荐</h1>
128             </div>
129             <div class="content">
130                 <ul class="list-item">
131                     <li>1. 热门推荐 1</li>
132                     <li>2. 热门推荐 2</li>
133                     <li>3. 热门推荐 3</li>
134                 </ul>
135             </div>
136         </div>
137     </section>
138
139 </main>
```

UTF-8 CANCEL SAVE AS SAVE & CLOSE SAVE

Modified	Size	Kind
Today 05:23 PM	-	Folder
Today 02:05 PM	-	Folder
Today 01:22 AM	2 KB	PHP source
Today 10:11 PM	3 KB	PHP source
Today 03:19 PM	46 b	PHP source
Today 10:09 PM	4 KB	PHP source
Today 02:09 AM	19 KB	PHP source
Today 05:56 PM	3 KB	PHP source
Today 01:10 AM	2 KB	PHP source
Today 10:33 AM	0 b	Cascading style sheet

## WP File Manager

Buy PRO

Change Theme Here:

Default

English

File browser sidebar:

- code
- .git
- wp-admin
- wp-content
  - cache
  - mu-plugins
  - plugins
  - themes
    - com5940 (selected)
    - assets
      - css
      - img
      - js
      - vendor
      - pic
  - twentyeleven
  - twentysixteen
  - twentycfourteen

Code editor window:

```
<?php
while ($eq_query->have_posts()): $eq_query->the_post();
?>
<div class="col-lg-4 col-md-4 col-sm-12 justify-content-center">
    <div class="media menu-item">
        <a href=<?php the_permalink(); ?>" target="_blank">
            <?php the_post_thumbnail(); ?>
        <div class="media-body">
            <h5 style="margin-top:10px">公 · 圆</h5>
            <p>多伦现代美术馆</p>
            <p>摄影/群展</p>
        </div>
    </a>
</div>
</div>
<?php endwhile; wp_reset_query(); ?>
<?php include(EQ_PAGING); ?>
<?php endif; ?>
</div>
</div>
</section><!-- End About Section -->
```

Code editor buttons: UTF-8 ▾ CANCEL SAVE AS SAVE & CLOSE SAVE

File list on the right:

Modified	Size	Kind
Today 05:23 PM	-	Folder
Today 02:05 PM	-	Folder
Today 01:22 AM	2 KB	PHP source
Today 10:11 PM	3 KB	PHP source
Today 03:19 PM	46 b	PHP source
Today 10:09 PM	4 KB	PHP source
Today 02:09 AM	19 KB	PHP source
Today 05:56 PM	3 KB	PHP source
Today 01:10 AM	2 KB	PHP source
Today 10:33 AM	0 b	Cascading style sheet

File details at the bottom:

code/wp-content/themes/com5940

home.php, 19 KB

Items: 10, Size: 33 KB

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个人展/画展/互动



More, More, More

油罐艺术中心  
国际/当代/群展



公·园

多伦现代美术馆  
摄影/群展

[按条件查找](#)

**Linking the *listing* page and the  
single post page.**

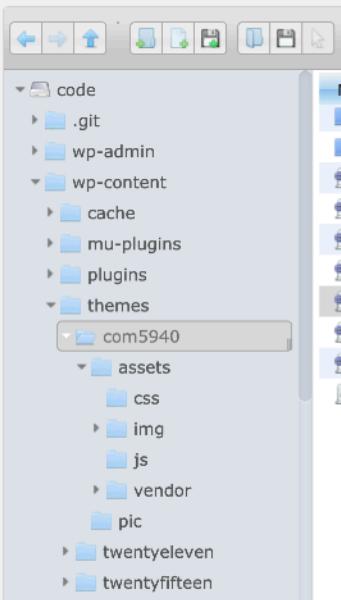
## WP File Manager

Buy PRO

Change Theme Here:

Default

English



The sidebar displays the file structure of the theme. It includes a 'code' folder, a '.git' folder, 'wp-admin', 'wp-content' (with 'cache', 'mu-plugins', 'plugins'), and 'themes'. Under 'themes', there is a selected folder 'com5940' which contains 'assets' (with 'css', 'img', 'js', 'vendor', 'pic'), and other themes like 'twentyeleven', 'twentysixteen', and 'twentycfourteen'.



```
home.php
133 <?php
134 while ($eq_query->have_posts()): $eq_query->the_post();
135 ?>
136         <div class="col-lg-4 col-md-4 col-sm-12 justify-content-
137             center">
138             <div class="media menu-item">
139                 <a href=<?php the_permalink(); ?>" target=_blank">
140                     <?php the_post_thumbnail(); ?>
141                     <div class="media-body">
142                         <h5 style="margin-top:10px">公 · 圆</h5>
143                         <p>多伦现代美术馆</p>
144                         <p>摄影/群展</p>
145                     </div>
146                 </a>
147             </div>
148         </div>
149     <?php endwhile; wp_reset_query(); ?>
150     <?php include(EQ_PAGING); ?>
151     <?php endif; ?>
152 </div>
153 </div>
154 </section><!-- End About Section -->
```

UTF-8

CANCEL SAVE AS SAVE &amp; CLOSE SAVE

home.php, 19 KB

Items: 10, Size: 33 KB

Modified	Size	Kind
Today 05:23 PM	-	Folder
Today 02:05 PM	-	Folder
Today 01:22 AM	2 KB	PHP source
Today 10:11 PM	3 KB	PHP source
Today 03:19 PM	46 b	PHP source
Today 10:09 PM	4 KB	PHP source
Today 02:09 AM	19 KB	PHP source
Today 05:56 PM	3 KB	PHP source
Today 01:10 AM	2 KB	PHP source
Today 10:33 AM	0 b	Cascading style sheet

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## 张恩利个展：会动的房间

### A Room That Can Move



#### 基本信息

起止日期: 2020.11.7-2021.3.21

展馆: 上海当代艺术博物馆3楼、5楼

交通信息:

地址: 花园港路200号

地铁: 4、8号线 西藏南路站2号口

公交: 苗江路望达路站 (浦西滨江1路),

中山南路南车站路站 (45、66、109、144、306、327、  
780、869、大桥六线)

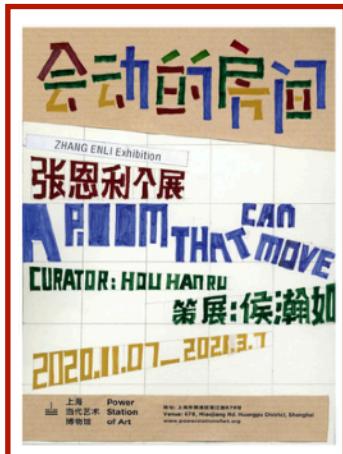
营业时间: 周二 - 周日 11: 00 - 19: 00

票价: 免费

[展览详情](#)

**How about adding thumbnail image or  
banner image to each post?**

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上海当代艺术博物馆  
个人展/画展/互动



More, More, More

油罐艺术中心  
国际/当代/群展



公·园

多伦现代美术馆  
摄影/群展

[按条件查找](#)

# **Functions.php**

 functions.php

```
1 <?php  
2  
3 add_theme_support('post-thumbnails');  
4  
5 ?>  
6
```

Insert the above link into the  
functions.php file.

Word count: 19 Last edited by master on January 17, 2021 at 6:03 pm

Chinese Title 张恩利个展：会动的房间

Exhibition Details

Add Media Pods Shortcode Visual Text

b i link b-quote del ins img ul ol li code more close tags

2020年11月7日至2021年3月7日，上海当代艺术博物馆（PSA）将举办中国艺术家张恩利迄今为止规模最大、内容最为丰富的个展“会动的房间”。展览由侯瀚如策展，将集中呈现艺术家过往近30年艺术生涯各阶段的百余件绘画作品，以及根据PSA建筑空间全新创作的多件沉浸式绘画装置“空间绘画”。

<br><br>此次展览将占据PSA的三楼、五楼及户外延伸空间，通过非线性的策展逻辑全面回溯张恩利自上世纪90年代初期至今盘互交错、始终不渝的绘画之路。张恩利的平面绘画大致可被分为三个部分：90年代聚焦人物及生存问题的具象绘画、千禧年后以蕴含时间痕迹的“容器”为主的静物画、近年来透析记忆与挖掘潜意识的意象画。2007年开始，他在画布与画笔之外，创作了一系列“空间绘画”，在时间与空间的交响之中调动观者的身体经验，从而激发绘画这一最为古旧的传统媒介的潜在能动性，将其牵引至全新的方向。

**Click “Set featured image” in the add new post or edit post screen.**

Pic1

Pic2

Tags

Add Separate tags with commas Choose from the most used tags

exhibition Attributes

Template Exhibition

Featured Image

会动的房间

张恩利个展  
A ROOM THAT MOVE  
CURATOR: HOU HANRU  
第展:侯瀚如  
2020.11.07 - 2021.3.7

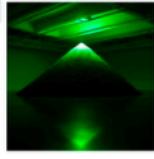
Click the image to edit or update Remove featured image

W COM5940 11 0 New View exhibition Delete Cache Howdy, master

## Featured Image

Upload files Media Library Media Library

Filter media Images All dates Search



**ATTACHMENT DETAILS**

 张.jpg  
January 17, 2021  
216 KB  
1080 by 1529 pixels  
[Edit Image](#) [Delete permanently](#)

Alt Text   
Describe the purpose of the image. Leave empty if the image is purely decorative.

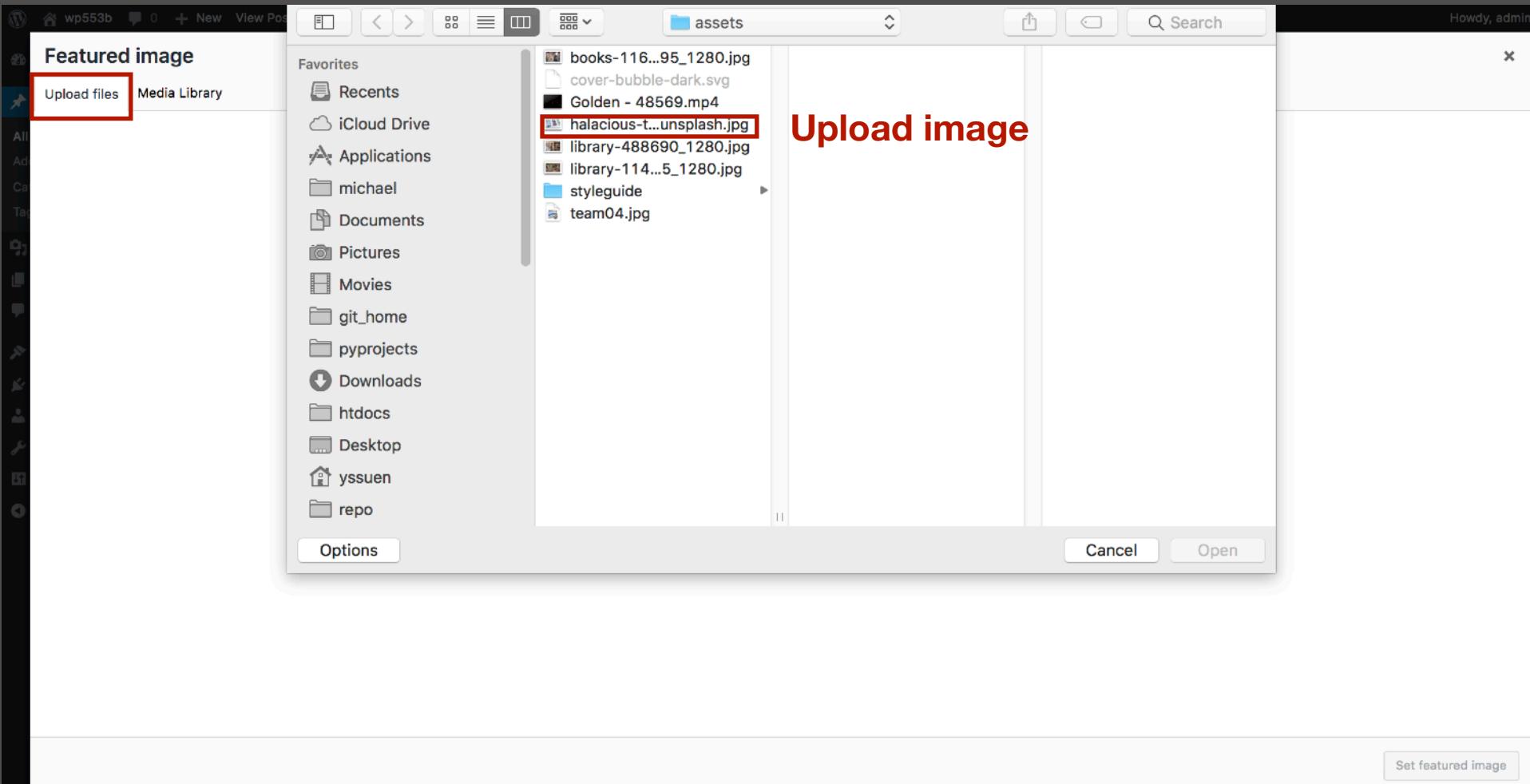
Title  张

Caption

Description

File URL:  <https://dev-wp5940.pantheonsite.io/wp-content/uploads/2021/01/张.jpg> Copy URL to clipboard

Set featured image



Set featured image

# **Choosing template.**

W COM5940 11 0 + New View exhibition Delete Cache

Howdy, master Screen Options ▾

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions All Exhibitions Add New Categories Tags restaurant Appearance Plugins Users Tools Settings Pods Admin Cache Cleaner WP File Manager Collapse menu

Edit exhibition [Add New](#)

## A Room That Can Move

Permalink: <https://dev-wp5940.pantheonsite.io/exhibition/a-room-that-can-move/> [Edit](#)

Add Media Pods Shortcode Visual Text

b / link b-quote del ins img ul ol li code more close tags

```
<ul>
    <li><strong>起止日期</strong>: 2020.11.7-2021.3.21</li>
    <li><strong>展馆</strong>: 上海当代艺术博物馆3楼、5楼</li>
    <li><strong>交通信息</strong>: </li>
    <li>地址: 花园港路200号</li>
    <li>地铁: 4、8号线 西藏南路站2号口</li>
    <li>公交: 苗江路望达路站 (浦西滨江1路),</li>
    <li>中山南路南车站路站 (45、66、109、144、306、327、780、869、大桥六线) </li>
    <li><strong>营业时间</strong>: 周二 - 周日 11:00 - 19:00</li>
    <li><strong>票价</strong>: 免费</li>
</ul>
```

Word count: 19 Last edited by master on January 17, 2021 at 6:03 pm

More Fields

Chinese Title 张恩利个展：会动的房间

Exhibition Details

Add Media Pods Shortcode Visual Text

b / link b-quote del ins img ul ol li code more close tags

2020年11月7日至2021年3月7日，上海当代艺术博物馆（PSA）将举办中国艺术家张恩利迄今为止规模最大、内容最为丰富的个展“会动的房间”。展览由侯瀚如策展，将集中呈现艺术家过往近30年艺术生涯各阶段的百余件绘画作品，以及根据PSA建筑空间全新创作的多件沉浸式绘画装置“空间绘画”。

三楼、五楼及户外延伸空间，通过非线性的策展逻辑全面回溯张恩利自上世纪90年代初期至今盘互交错、始终不渝的

Choose the template for fetching the single post.

Publish Preview Changes

Status: Published [Edit](#)

Visibility: Public [Edit](#)

Published on: Jan 17, 2021 at 10:20 [Edit](#)

[Move to Trash](#) [Update](#)

Categories

All Categories Most Used

Uncategorized

[+ Add New Category](#)

Tags

Separate tags with commas

[Choose from the most used tags](#)

exhibition Attributes

Template [Exhibition](#)

WP File Manager Buy PRO

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings Pods Admin Cache Cleaner

WP File Manager

Settings Preferences System Properties Shortcode – PRO Logs Backup / Restore

Collapse menu

COM5940 11 0 New Delete Cache Howdy, master

**WP File Manager**

Name

- assets
- pic
- exhibition.php**
- footer.php
- functions.php
- header.php
- home.php
- index.php
- single-exhibition.php
- style.css

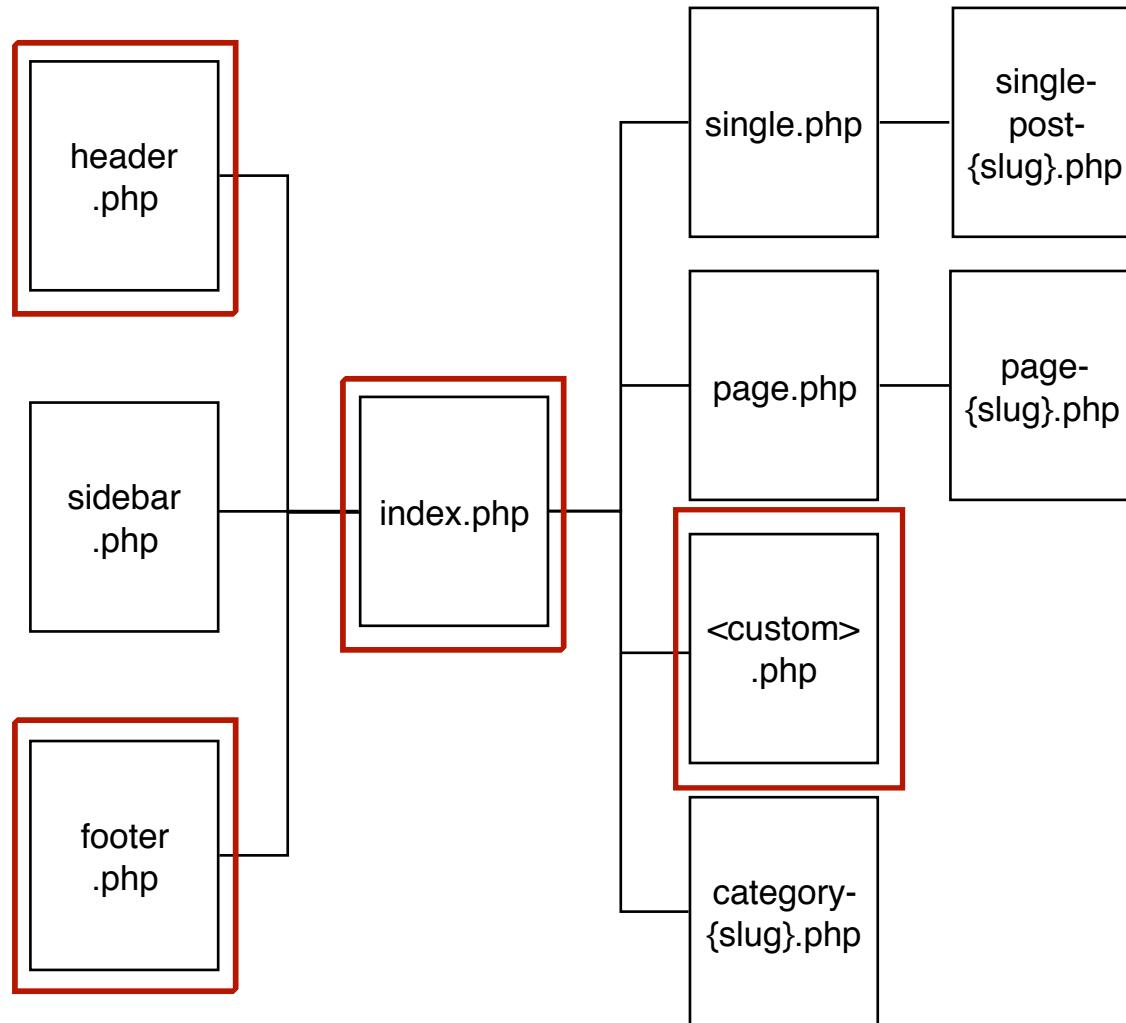
```

7 <?php get_header();
8 $wp_query->current_post;
9 $pod = pods( 'exhibition', get_the_id() ); ?>
10 <main id="main">
11
12     <!-- ===== Breadcrumbs ===== -->
13     <section id="breadcrumbs" class="breadcrumbs">
14         <div class="container">
15
16             <ol>
17                 <li><a href="index.html">首页</a></li>
18                 <li>热门推荐</li>
19             </ol>
20             <h2><?php print $pod->field('chinese_title'); ?></h2>
21             <h2><?php print $pod->field('post_title'); ?></h2>
22
23         </div>
24     </section><!-- End Breadcrumbs -->
25
26     <!-- ===== Portfolio Details Section ===== -->
27     <section id="portfolio-details" class="portfolio-details">
28         <div class="container">
29
30             <div class="portfolio-details-container">
31
32                 <div class="owl-carousel portfolio-details-carousel col-lg-6">
33                     <img src=<?php print $pod->field('pic1_src'); ?>" class="img-fluid" alt="">
34                     <img src=<?php print $pod->field('pic2_src'); ?>" class="img-fluid" alt="">
35                     <img src=<?php print $pod->field('pic3_src'); ?>" class="img-fluid" alt="">
36
37             </div>
38             <div class="portfolio-info col-lg-6">
39                 <h3>基本信息</h3>
40                 <?php print $pod->field('post_content'); ?>
41             </div>
42
43         </div><!--portfolio-details-container-->
44
45         <div class="portfolio-description">
46             <h2>展览详情</h2>
47             <p>
48                 <?php print $pod->field('exhibition_details'); ?>
49             </p>
50         </div>
51
52     </div><!--container -->
53 </section><!-- End Portfolio Details Section -->

```

UTF-8 CANCEL SAVE AS SAVE & CLOSE SAVE Version 5.6

**Codes for fetching single post.**



Howdy, master

COM5940 11 0 New View Page Delete Cache

Dashboard Posts Media Pages All Pages Add New Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings Pods Admin Cache Cleaner WP File Manager Collapse menu

Edit Page Add New Home Permalink: <https://dev-wp5940.pantheonsite.io/>

Add Media Pods Shortcode Visual Text

b i link b-quote del ins img ul ol li code more close tags

Create a customized template and add the following codes to the top of the page:

<?php /\* Template Name: Home Page \*/ ?>

Word count: 0 Last edited by master on January 17, 2021 at 5:40 pm

Status: Published [Edit](#)  
Visibility: Public [Edit](#)  
Published on: Jan 17, 2021 at 17:40 [Edit](#)  
[Move to Trash](#) [Update](#)

Page Attributes Parent: (no parent) Template: Home Order: 0  
Need help? Use the Help tab above the screen title.

Featured image Set featured image

Version 5.6

COM5940 11 0 New Delete Cache Howdy, master

Dashboard Posts Media Pages All Pages Add New Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings Pods Admin Cache Cleaner WP File Manager Collapse menu

Pages Add New Screen Options Help

All (3) | Published (2) | Draft (1)

Bulk actions Apply All dates Filter 3 items

	Title	Author	Date
<input type="checkbox"/>	<a href="#">Home — Front Page</a> Edit Quick Edit Trash View	master	— Published 2021/01/17 at 5:40 pm
<input type="checkbox"/>	<a href="#">Privacy Policy</a> — Draft, Privacy Policy Page	master	— Last Modified 2021/01/17 at 1:15 am
<input type="checkbox"/>	<a href="#">Sample Page</a>	master	— Published 2021/01/17 at 1:15 am
<input type="checkbox"/>	Title	Author	Date

Bulk actions Apply 3 items

<https://dev-wp5940.pantheonsite.io/wp-admin/post.php?post=103&action=edit> Version 5.6

Howdy, master

Dashboard Posts Media Pages Comments Custom CSS & JS Exhibitions restaurant Appearance Plugins Users Tools Settings

## Reading Settings

Your homepage displays

Your latest posts  
 A static page (select below)

Homepage: Home

Posts page: — Select —

Blog pages show at most 10 posts

Syndication feeds show the most recent 10 items

For each post in a feed, include

Full text  
 Summary

Your theme determines how content is displayed in browsers. [Learn more about feeds](#).

Search engine visibility

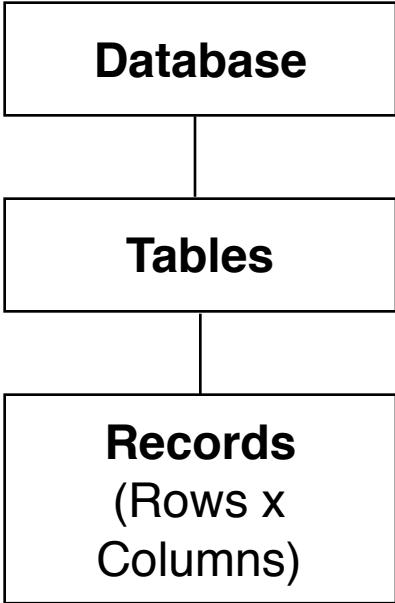
Discourage search engines from indexing this site

It is up to search engines to honor this request.

Save Changes

Waiting for dev-wp5940.pantheonsite.io...

**After understanding how templates fetch  
data from database, let's begin to get a  
good grasp of database.**



“A **database** is a collection of **tables** which relate to each other for storing and processing **records** that are defined by rows and columns (**fields**).”

**A database can be used for representing and tracking people, things, events. and transactions.**

- **People** (e.g. students, employees, customers, donors, volunteers)
- **Things** (e.g. properties, stocks, products, books)
- **Events** (e.g. campaigns, courses, conferences)
- **Transactions** (e.g. billings, orders, tasks, donations)



Product   Blocks   Templates   Universe   Pricing   Sign in   [Sign up](#)

# Create, your way

Part spreadsheet, part database, and entirely flexible, teams use Airtable to organize their work, their way.

Enter your email address

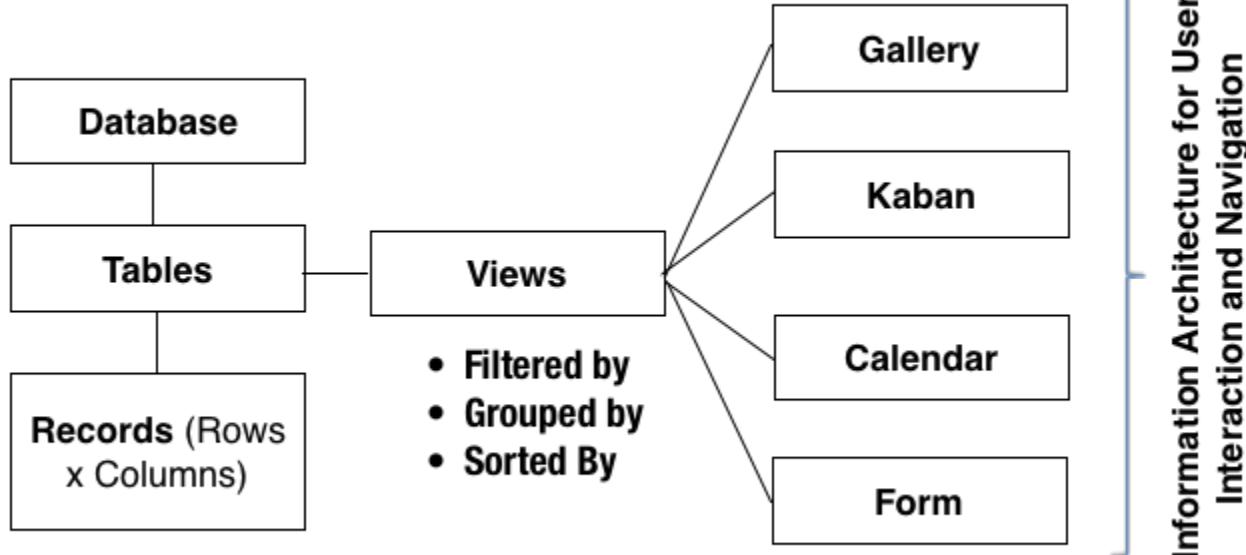
[Get started](#)

Already using Airtable? [Sign in](#)



## **The Field Types Found in Airtable**

- |                     |                    |                  |
|---------------------|--------------------|------------------|
| 1. Single Line Text | 9. Attachment      | 17.Created Time  |
| 2. Long Text        | 10.Checkbox        | 18.Modified Time |
| 3. Date             | 11.Multiple Select | 19.Formula       |
| 4. Phone Number     | 12.Single Select   | 20.Autonumber    |
| 5. URL              | 13.Collaborator    | 21.Count         |
| 6. Number           | 14.Rating          | 22.Link          |
| 7. Currency         | 15.Duration        | 23.Lookup        |
| 8. Percent          | 16.Email           | 24.Rollup        |
|                     |                    | 25.Barcode       |



# **Setting up MySQL on MAMP**

phpMyAdmin

Recent | Favorites

Filter databases by name or

New

- acehub
- BucketList
- campus\_prdev
- cellar
- ci
- com5940
- csdemo
- d734\_e
- d739
- d744
- d744a
- d750a
- d751\_a
- d753e
- d753f
- d753g
- d754\_e

Server: localhost:3306

Databases SQL Status Users Export Import Settings Replication VariablesCharsets Engines

General Settings

Server connection collation: utf8mb4\_unicode\_ci

Appearance Settings

Language: English

Theme: Original

Font size: 82%

More settings

Database server

- Server: Localhost via UNIX socket
- Server type: MySQL
- Server version: 5.5.42 - Source distribution
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

Web server

- Apache/2.2.29 (Unix) mod\_wsgi/3.5 Python/2.7.10 PHP/5.6.10 mod\_ssl/2.2.29 OpenSSL/1.0.2h DAV/2 mod\_fastcgi/2.4.5 mod\_perl/2.0.9 Perl/v5.22.0
- Database client version: libmysql - mysqldnd 5.0.11-dev - 20120503 - S: 3c686b6bbc30d36a3ec34fdd4b7b5b787fe5555 \$
- PHP extension: mysqli
- PHP version: 5.6.10

phpMyAdmin

- Version information: 4.4.10
- Documentation
- Wiki
- Official Homepage
- Contribute
- Get support
- List of changes



# **CONVERT DATA FORMAT FROM CSV TO SQL**

<https://www.convertcsv.com/csv-to-sql.htm>

# **Structured Query Language (SQL)**

“Language (commands) for instructing the database to perform data operations.”

**Structured Query Language (SQL) is divided into:**

- Data Definition Language (**DDL**)
- Data Manipulation Language (**DML**)
- Data Query Language (**DQL**)
- Data Control Language (**DCL**)

# **Data Definition Language (DDL)**

## **Set Up Database (Schema)**

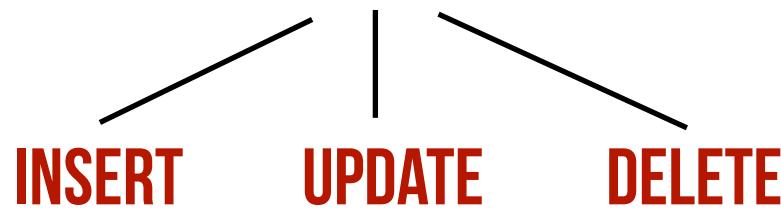
**CREATE DATABASE** database name  
**DROP DATABASE** database name  
**SHOW DATABASES**

# Data Definition Language (**DDL**)

## Set Up Table (Schema)

**CREATE TABLE IF NOT EXISTS** table name  
**SHOW TABLES**

# Data Manipulation Language (**DML**)



# **Insert a Record**

**INSERT INTO** table name **VALUES** (first field value, ..., last field value)

# Update a Record

**UPDATE** table name **SET** field name = {value|NULL|DEFAULT}, ...  
**WHERE** condition

# Delete a Record

**DELETE FROM** table name **WHERE** condition

# **Export a Database**

**mysqldump -u root -p root > “<database name>.sql”**

# **Data Control Language (DCL)**

# Grant and Revoke Rights

**GRANT** privileges  
**ON** table name  
**TO** user

**REVOKE** privileges  
**ON** table name  
**FROM** user

## privileges

SELECT	Ability to perform SELECT statements on the table.
INSERT	Ability to perform INSERT statements on the table.
UPDATE	Ability to perform UPDATE statements on the table.
DELETE	Ability to perform DELETE statements on the table.
REFERENCE	Ability to create a constraint that refers to the table.
ALTER	Ability to perform ALTER TABLE statements to change the table definition.
ALL	ALL does not revoke all permissions for the table. Rather, it revokes the ANSI-92 permissions which are SELECT, INSERT, UPDATE, DELETE, and REFERENCES.

e.g. **GRANT SELECT, UPDATE, INSERT ON** products **TO** johnchan

# **Data Query Language (DQL)\*\*\***

**\*\*\* DQL used most frequently in analytics.**

# Retrieve Record

```
SELECT FROM table name WHERE condition  
GROUP BY field name  
ORDER BY field name ASC | DESC
```

1. **Sort** single or multiple fields as sorting criteria.
2. **Group** entries by a single field or multiple fields to create data segments.
3. **Filter** entries by single or multiple fields as searching conditions.

**Use sort, group, and filter to search for information in a table.**

# **Retrieve Records by Aggregate/Statistic Functions**

**SELECT COUNT (field name)**  
**FROM table name GROUP BY field name WHERE condition**

**SELECT SUM (field name)**  
**FROM table name GROUP BY field name WHERE condition**

**SELECT AVG (field name)**  
**FROM table name GROUP BY field name WHERE condition**

**SELECT MAX | MIN (field name)**  
**FROM table name GROUP BY field name WHERE condition**

# Orbit Model Community CRM

HELP ? 🔍 🔔 🔍



Members

Activity History

Activity Types

+ Add or import

SHARE

AUTOMATIONS

APPS

VIEWS

Grouped by Location

...

18 hidden fields

Filter

Grouped by 1 field

Sorted by 2 fields

Color

...

Share view

🔍

Find a view



All Members

Grouped by Orbit Level

Grouped by Company

Grouped by Location



High Love in San Francisco

Ambassadors and Fans in Ne...

All Fields

Form

Create a view

Grid



Form



Calendar



Gallery



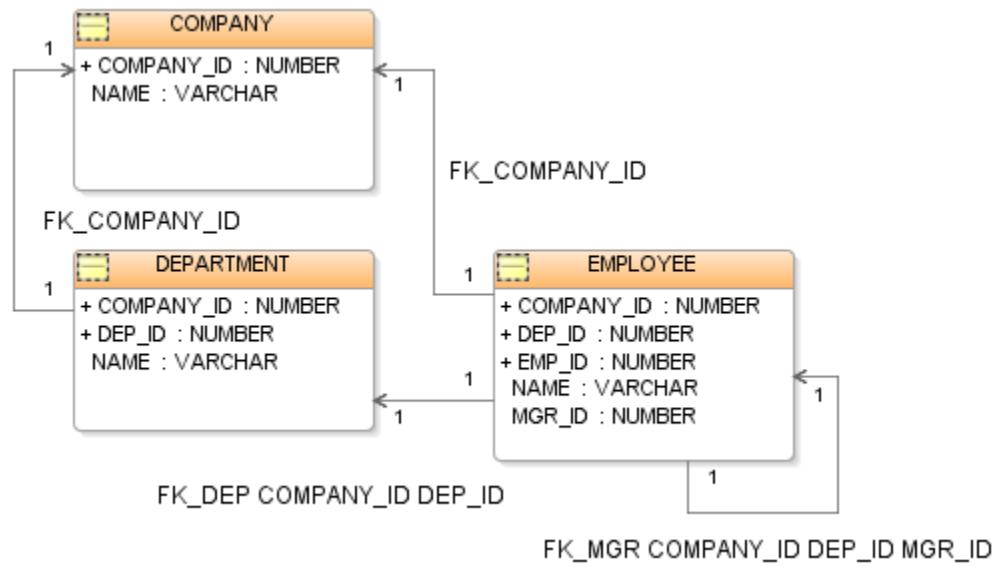
Kanban



LOCATION	Name	Orbit Level Suggestion	Love	Reach	Activity Score
Paris	Neil Rees	Count 4	Sum 19	Avg 9	Sum 31
	Dan Blake	3 - Users	6	4	18
	Dorothy Black	3 - Users	4	10	4
	Tim Bond	4 - Observers	4	10	4
	+				
San Francisco	Michelle Winslow	Count 9	Sum 40	Avg 7	Sum 59
	Justin Jenkins	1 - Ambassadors	9	10	19
	Kyle Wang	1 - Ambassadors	8	10	17
	Jason Bean	2 - Fans	6	10	6
	+				
		50 records	Sum 211	Avg 7	Sum 345

# Building relationships between tables by using foreign keys.

- Every entry in a table should be uniquely defined by a **primary key**.
- Build relationships between tables by making one of the fields in the table as a **foreign key** linked to the **primary key** of another table.



Source: commons.wikimedia.org

# **Retrieve Records Through SQL Join (e.g. inner, outer, left, right)**

```
SELECT tableName1.fieldName1,tableName2.fieldName2,  
tableName1.fieldName3, tableName2,fieldName4  
FROM tableName1  
INNER JOIN tableName2 WHERE tableName1,fieldName  
= tableName2.fieldName;
```

## **Example:**

```
SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate  
FROM Orders  
INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID;
```

**Lab exercise continues at:**

<https://www.dofactory.com/sql/syntax>

**MySQL by Examples for Beginners**

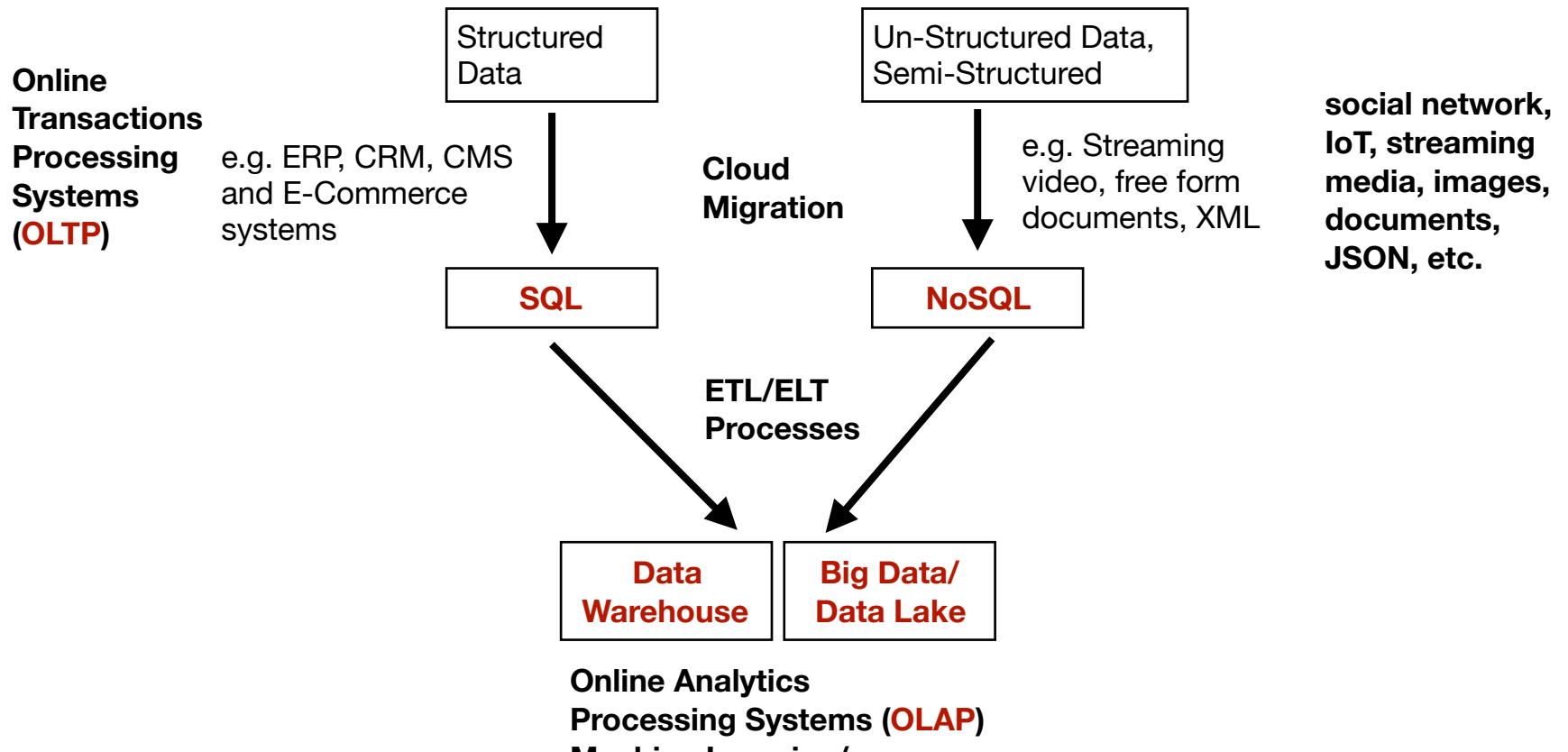
[https://www3.ntu.edu.sg/home/ehchua/programming/sql/MySQL\\_Beginner.html](https://www3.ntu.edu.sg/home/ehchua/programming/sql/MySQL_Beginner.html)

# **SQL VS. NOSQL**

# Storing data

DATABASE DESIGN





ETL - Extract, Transform, Load

ELT - Extract, Load, Transform

# **ASSIGNMENT #1**

1. Create a **WordPress theme** using your **com5961** project as the base template on your pantheon website.
2. Create a custom content type using **Pods** to represent your restaurant, concert, study room, escape room, destination, venue, product, etc. so you can enter data into the database.
3. Make a **listing page** (e.g. restaurant list, concert list, study room list, escape room list, destination list, venue list, product list, etc) with **clickable links** to detail pages.
4. Make a **detail page** (e.g. individual restaurant, concert, study room, escape room, destination, venue, product etc.)

**THANK YOU FOR YOUR TIME!**