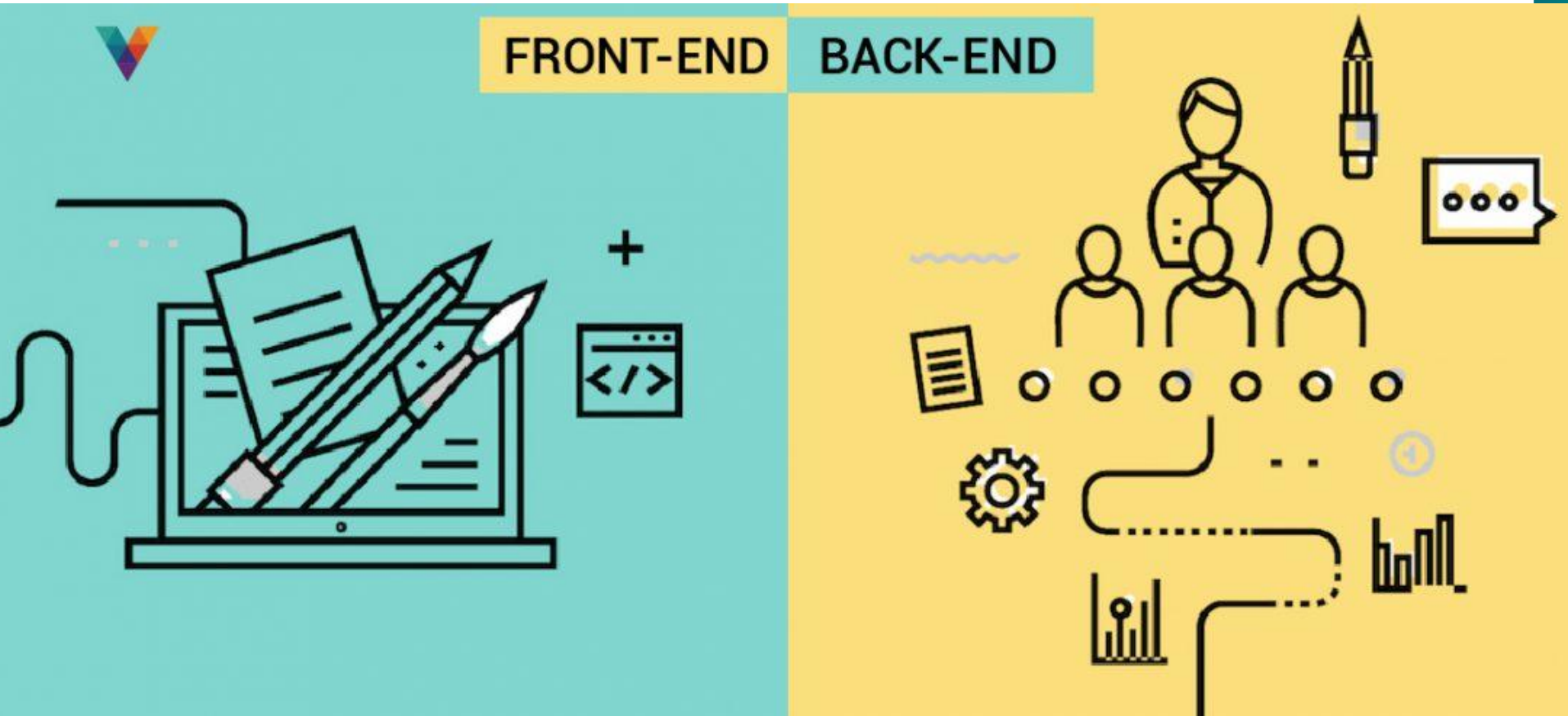# Front-End vs Back-end

Front-End Development

Front end development is the development of code that creates the visual front-end elements of a software, application or website. Front end languages include **HTML**, **CSS**, and **Javascript**

HTML defines the content of web pages
CSS specifies the layout of web pages
JS programs the behavior of web pages

HTML (Hyper Text Markup Language) is the standard language for creating Web pages. It describes the structure of Web pages.

HTML elements are the building blocks of HTML pages, represented by tags such as: "heading", "paragraph", "table", and so on.

```
<!DOCTYPE html>
<html>
<head>
<title></title>
</head>
<body>
</body>
</html>
```

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Make your first web page

```
<!DOCTYPE html>
<html>
<head>
<title>Purwadhika</title>
</head>
<body>

Hello World!

</body>
</html>
```

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HTML Basic

```html
<h1>Ini Heading 1</h1>
<h2>Ini Heading 2</h2>
<h3>Ini Heading 3</h3>
<h4>Ini Heading 4</h4>
<h5>Ini Heading 5</h5>
<h6>Ini Heading 6</h6>

<center>
<p>Ini&nbspParagraf</p>
</center>

<a href="url">Silakan klik!</a><br><br>

<img src="url" alt="Purwadhika"
width="600" height="280">
```

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HTML Text Formatting

`<b>` Ini bold `</b><br>`
`<strong>` Ini strong `</strong><br>`
`<i>` Ini italic `</i><br>`
`<em>` Ini emphasized `</em><br>`
`<mark>` Ini marked `</mark><br>`
`<small>` Ini small `</small><br>`
`<del>` Ini deleted `</del><br>`
`<ins>` Ini inserted `</ins><br>`
`<sub>` Ini subscript `</sub><br>`
`<sup>` Ini superscript `</sup><br>`

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HTML Table

```
<table>
  <tr>
    <th> Nama </th>
    <th> TTL </th>
    <th> Alamat </th>
  </tr>
  <tr>
    <td> Galih </td>
    <td> Jepara, 25 Jan 92 </td>
    <td> Soditan 02/VI Kramat Jati </td>
  </tr>
  <tr>
    <td> Ratna </td>
    <td> Bandung, 4 Apr 1994 </td>
    <td> Geger Kalong No 45 </td>
  </tr>
</table>
```

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Table's Border

```
<!DOCTYPE html>
<html>
<head>
<title>Purwadhika</title>
<style>
table, th, td {
    border: 1px solid black;
    border-collapse: collapse;}
</style>
</head>
<body>
---INSERT HTML TABLE FROM PREVIOUS SLIDE
</body>
</html>
```

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HTML Form

```html
<form>

Nama <input type="text" name="nama">

Usia <input type="number" name="usia">

<input type="radio" name="sex" value="P"> Pria
<input type="radio" name="sex" value="W"
checked> Wanita

<input type="submit" value="OK">

</form>
```

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Exercise

Purwadhika League 2017

Rank	Club	Logo	Function	Level	OK
1st	**Barcelona** FC		$2x^3 + 3x^2 - x - 13 = 0$	◯ Junior ⦿ Profesional	Edit
2nd	**Bayern** Munich		$3y^3 - 5y^2 - 2y + 3 = 0$	⦿ Junior ◯ Profesional	Edit
3rd	**Real** Madrid		$2z^3 + z^2 - 2z + 5 = 0$	⦿ Junior ◯ Profesional	Edit

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lintang@purwadhika.com

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Front-End vs Back-end
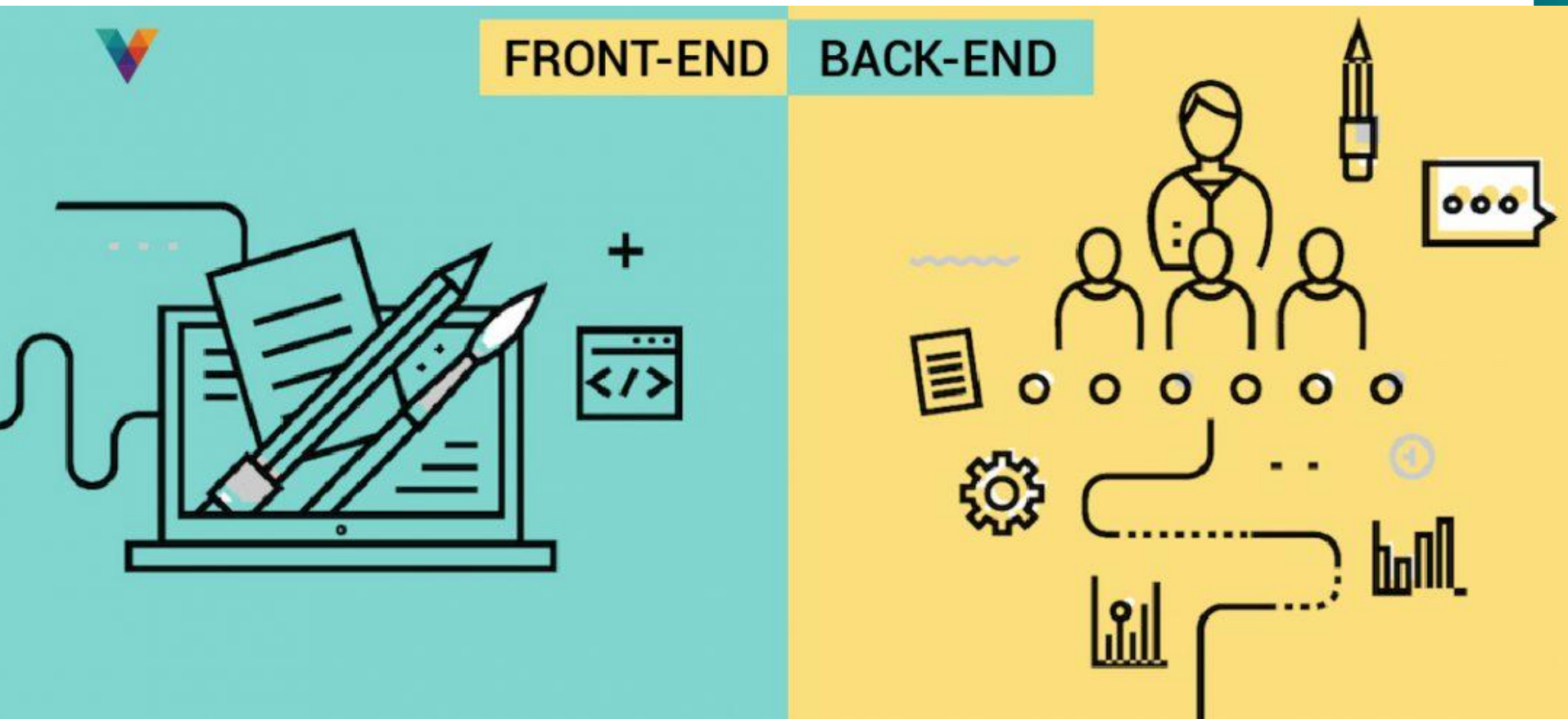
Back-end Development

Back end development is the creation of the logical back-end and core computational logic of a website, software, or information system.

Many back end developers know front end languages such as HTML and CSS but need to use languages such as **Java**, **PHP**, **Ruby** on Rails, **Python**, and **.Net** to get the back end job done.

Back end developers are most focused on a site's responsiveness and speed. These languages are used to create dynamic sites which are different from static sites in that these types of websites store database information. Content on the site is constantly changing and updating. Examples of dynamic sites include Facebook, Twitter, and Google Maps.

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PHP (recursive acronym for *PHP: Hypertext Preprocessor*) is a widely-used open source general-purpose server side scripting language that is especially suited for web development and can be embedded into HTML.

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP & Perl programming languages. XAMPP stands for **Cross-Platform** (X), **Apache** (A), **MariaDB** (M), **PHP** (P) and **Perl** (P).

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

Apache is the most widely used web server software. Developed and maintained by Apache Software Foundation, Apache is an open source software available for free. It runs on 67% of all webservers in the world. It is fast, reliable, and secure.

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

Make your first PHP file #1

```php
<?php
echo "Halo Dunia";
?>
```

Simpan dalam htdocs sebagai .php
Aktifkan Apache Server
Buka web browser
Akses localhost/[folder]/[file].php

Make your first PHP file #2

```
<!DOCTYPE html>
<html>
<head>
<title>Purwadhika</title>
</head>
<body>
    <?php
    echo "Halo Dunia";
    ?>
</body>
</html>
```

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Make your first PHP file #3

```
<!DOCTYPE html>
<html>
<head>
<title>Purwadhika</title>
</head>
<body>
    <?php
    echo "<h1>Halo Dunia</h1>";
    ?>
</body>
</html>
```

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