



Web Technology and Services

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(CMS) Content Management Systems



- A CMS allows non-technical users to make changes to an existing website with little or no training.
- Primarily a Web-site maintenance tool for nontechnical administrators.
- Typically requires an experienced coder to set up and add features



A CMS facilitates:

- Content creation
- Content control
- Editing
- Maintenance functions





 Designed for users with little or no knowledge of programming languages or markup languages

Tools to create and manage content with relative ease of use.

 Most systems use a database to store content, metadata, and/or artifacts that might be needed by the system.

(IRI)

CMS Common Features

- Search engine optimization
- Integrated and online documentation
- Modularity and extensibility
- User and group functionality
- Template support for changing designs
- Installation and upgrade wizards
- Integrated audit logs
- Reduced need to code from scratch

- Unified user experience
- Version control
- Edit permission management





WordPress Check List



- It is a content management system (CMS) used to create blogs and websites
- Created primarly in PHP, MYSQL and JavaScript
- Free and Open Source
- Powers 35% of Websites in Internet





WordPress Check List

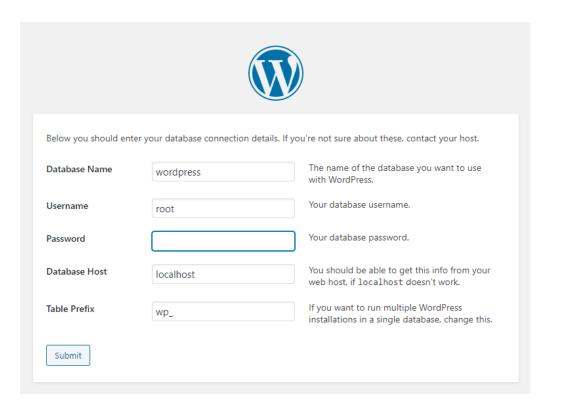
	WORDPRESS.ORG	WORDPRESS.COM
Web Hosting	X	FREE
Domain Name	X	FREE *
Design (Themes)	FULLY CUSTOMIZABLE	LIMITED *
Plugins	FULL CONTROL	LIMITED *
Backups	SELF MANAGED	INCLUDED
Security	SELF MANAGED	INCLUDED

^{*} upgrades will cost \$



WordPress Installation

Manual 5 minutes



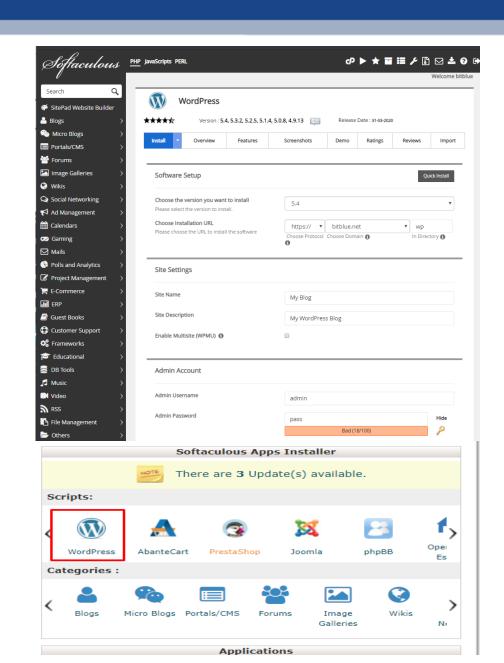
	nous five-minute WordPress installation process! Just fill in the information below and you'll using the most extendable and powerful personal publishing platform in the world.	
Information	n needed	
Please provide the f	following information. Don't worry, you can always change these settings later.	
Site Title	Web Technologies and Services	
Username	<u>betimgashi</u>	
	Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.	
Password	dzqqHBvw0%lc)18Ok^	
	Strong	
	Important: You will need this password to log in. Please store it in a secure location.	
Your Email	betim.gashi@ubt-uni.net	
	Double-check your email address before continuing.	
Search Engine Visibility	Discourage search engines from indexing this site	
	It is up to search engines to honor this request.	



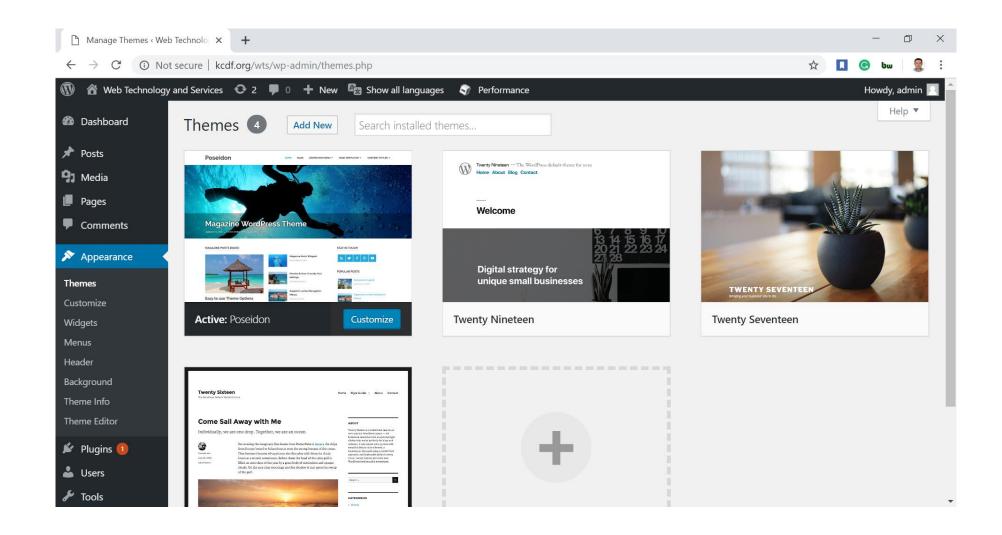
WordPress Installation

Automated Install - Softaculous - Web Hosting

- Automatic Installation
- Advanced options
- Easier upgrades
- Notifications for your site
- Enable Multisite
- Select Theme on Install





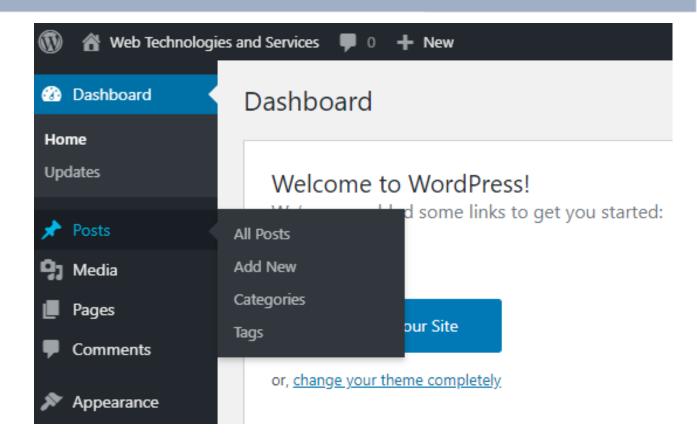


(IRI)

WordPress

Post Type - **Posts**

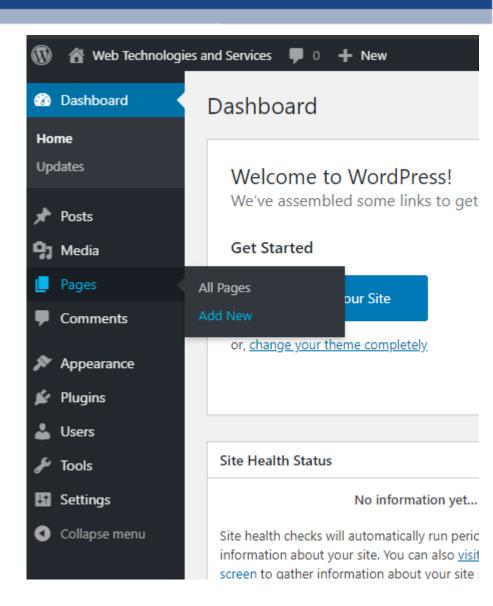
- Used for date based content News, Blogs, Events
- Listed by date newest first.
- Can be assigned to Categories and Tags
- Rich on features





Post Type - Pages

- Used for static content (About and Contact page)
- Hierarchy to their structure (Career > Job Postings)
- Cannot have taxonomies (categories and tags)



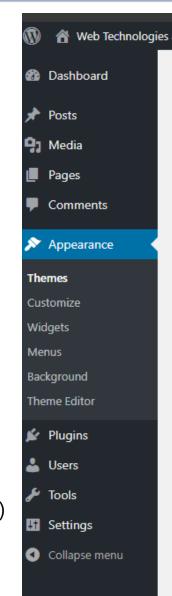


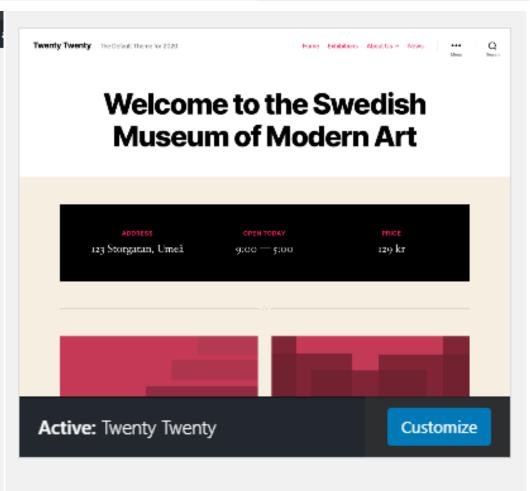
Themes

- Themes are templates that are responsible for styling (visual view of wordpress site)
- Editor
- Options
- Widgets
- Customize

Theme types

- Free themes
- Premium Themes
- Child Themes (modified version of a parent theme)
- Custom Themes, using a starter theme such as Underscores







Plugins

- Extend and add additional functionality to WordPress site without creating something else from scratch
- Many are free and created by other developers and premium from third party companies
- Easily embed new things to WordPress with short code
- Modify and Remove Functionality
- Saves time and makes life easier.

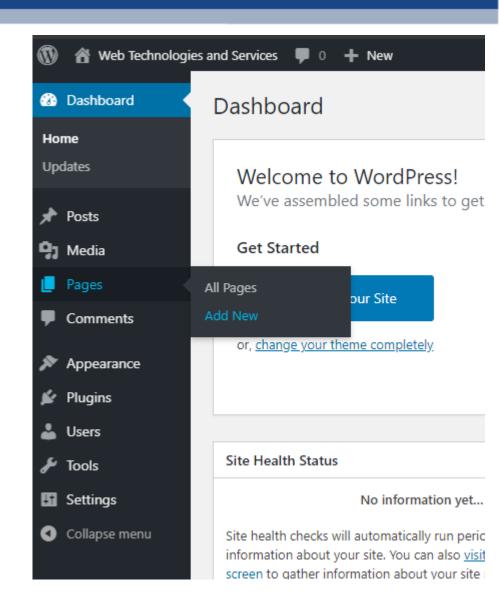
Few examples

- Wordfence Security
- Akismet
- Yoast Seo
- Google XML Sitemaps
- Google Analytics
- WP Smush
- W3 Total Cache



Roles and Capabilities

- Uses a concept of Roles, designed to give the site owner the ability to control what users can and cannot do within the site.
- Super Admin somebody with access to the site network administration features and all other features. See the Create a Network article.
- Administrator (slug: 'administrator') somebody who has access to all the administration features within a single site.
- Editor (slug: 'editor') somebody who can publish and manage posts including the posts of other users.
- Author (slug: 'author') somebody who can publish and manage their own posts.
- Contributor (slug: 'contributor') somebody who can write and manage their own posts but cannot publish them.
- Subscriber (slug: 'subscriber') somebody who can only manage their profile.



https://wordpress.org/support/article/roles-and-capabilities/



Powerful Features

Limitless possibilities. What will you create?



Customizable Designs



SEO Friendly



Responsive Mobile Sites



High Performance



Manage on the Go



High Security



Powerful Media Management



Easy and Accessible



WordPress Check List

Web Hosting

Bluehost | Siteground | Justhost | Namecheap | Hostgator | Godaddy | Site5 | FlyWheel

WordPress version

Always install the latest version

• FTP Client

FileZila

• IDE

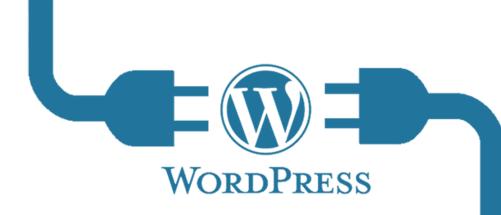
PHP Storm



WordPress Plugin List



- Coming Soon
- Polylang Multi language plugin
- Google Analytics Plugin
- Broken Link Checker
- Redirection



(IBT)

WordPress Plugin List

- WP-reCAPTCHA
- Contact Form 7
- WP-Optimize
- WP Super Cache
- Block Bad Queries
- Akeeba BackUp plugin





The 8 Best WordPress Page Builder Plugins Compared 2020

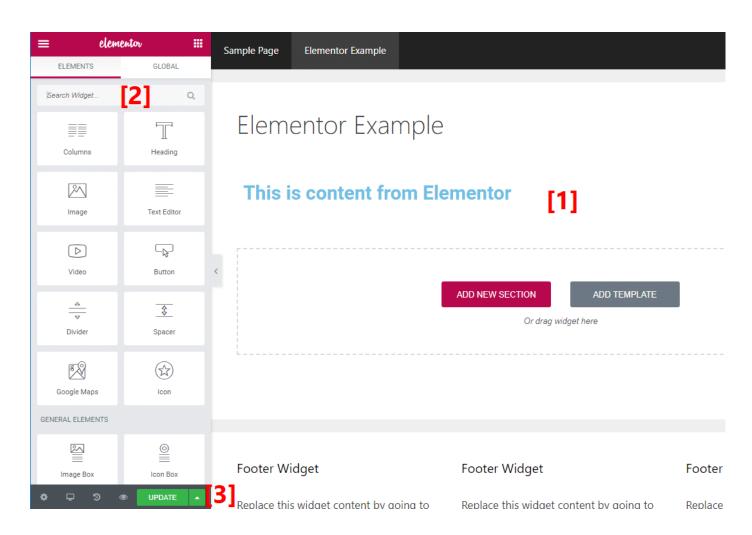
- 1. Elementor
- 2. Beaver Builder
- 3. Divi Builder
- 4. Thrive Architect
- 5. SiteOrigin Page Builder
- 6. WPBakery Page Builder
- 7. Themify Builder
- 8. Brizy
- 9. Visual Composer





Elementor

The Elementor interface is divided into two core parts, with a third area for some smaller settings:





Elementor

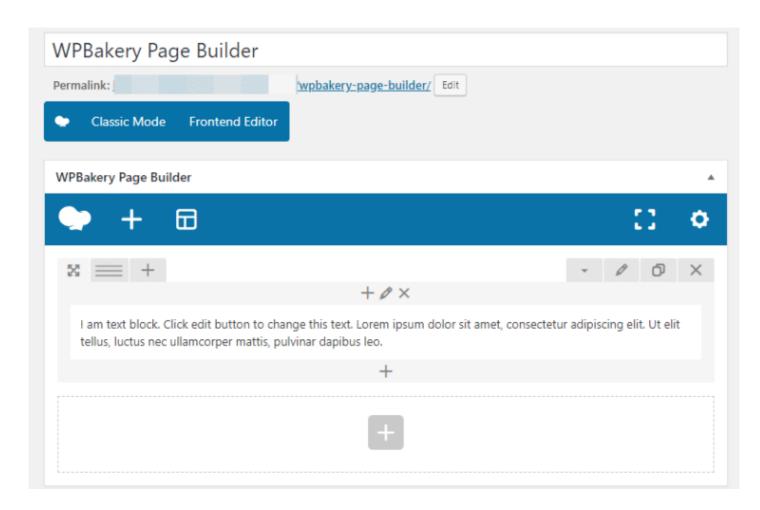
In the free version, Elementor includes **28 free widgets**. And you can also use all of the core WordPress widgets.





WPBakery Page Builder

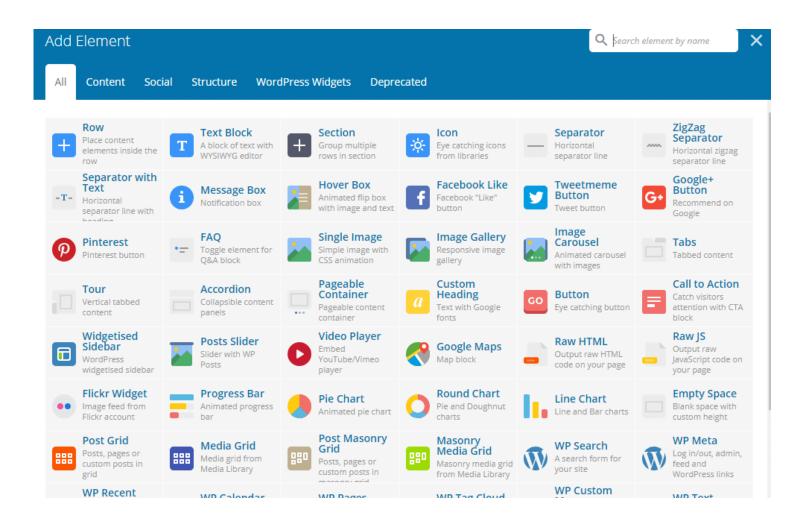
WPBakery Page Builder gives you both visual front end editing, as well as back end editing.





WPBakery Page Builder

WPBakery Page Builder offers 39 elements, plus all the normal WordPress widgets..





WordPress: Widgets

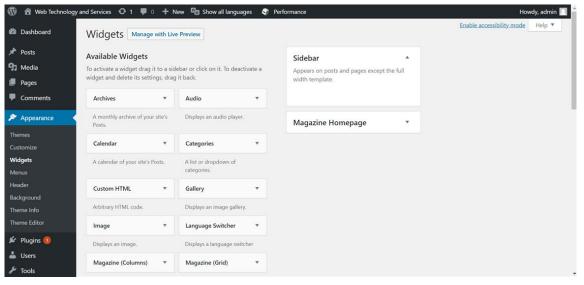
Widgets

Widgets allow you to drag and drop elements into any sidebar or widget ready area of your website.

WordPress widgets contain pieces of code that you can add to your website's sidebars or widget ready areas.

By default, WordPress comes with a standard set of widgets that you can use with any WordPress theme.







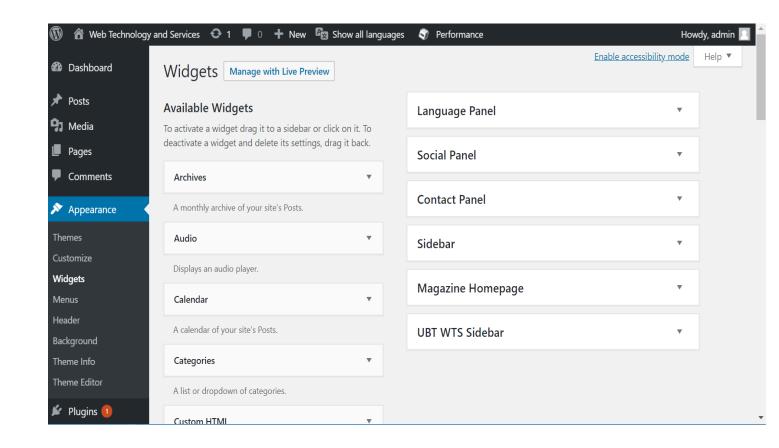
Widgets in WordPress

Creating a Custom Widget Area

A WordPress Widget is a small block that performs a specific function.

It is very helpful for you to know how to create a custom widget area.

You can create your own widget area section anywhere you want or according to your client's need.





Widgets in WordPress

Creating a Custom Widget Area

Step 1

~/wp-content/themes/<themename>/functions.php

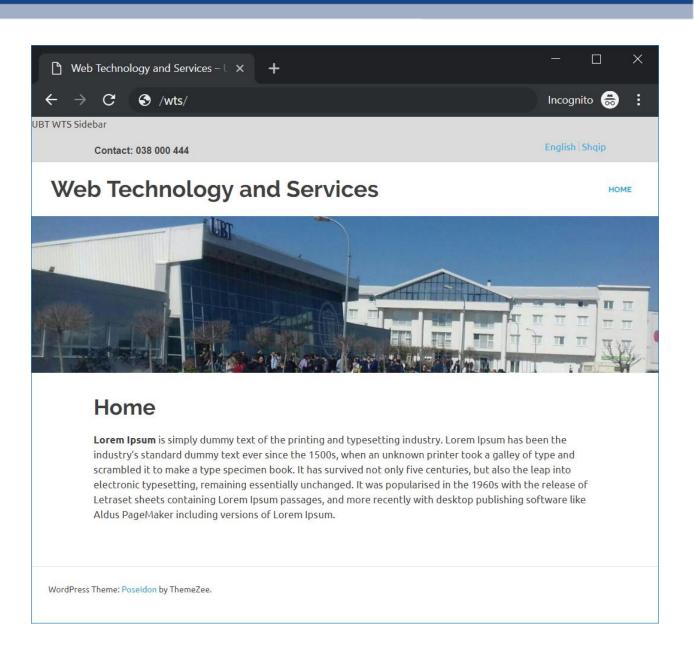
Step 2

~/wp-content/themes/<themename>/header.php



Widgets in WordPress

Custom Widget Area Front area display





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