

# Garra's PHP for WordPress Cheatsheet

A practical PHP reference tailored for WordPress development. Focused on themes, plugins, hooks, security, and performance best practices.

## PHP Basics

| Concept      | Use            | Example                                                          |
|--------------|----------------|------------------------------------------------------------------|
| Variables    | Store values   | <code>\$title = "Hello World";</code>                            |
| Arrays       | Lists and maps | <code>\$posts = ['a','b'];<br/>\$meta = ['views'=&gt;10];</code> |
| Conditionals | Logic          | <code>if (\$is_admin) { ... }</code>                             |
| Loops        | Iterate        | <code>foreach (\$posts as \$post) { ... }</code>                 |
| Functions    | Reusable logic | <code>function slugify(\$s) { return strtolower(\$s); }</code>   |

## WordPress Template Basics

| Task          | Function      | Example                                                                 |
|---------------|---------------|-------------------------------------------------------------------------|
| Header/Footer | Load layout   | <code>get_header(); ... get_footer();</code>                            |
| The Loop      | Display posts | <code>if (have_posts()) : while (have_posts()) :<br/>the_post();</code> |
| Title         | Post title    | <code>the_title();</code>                                               |
| Content       | Post body     | <code>the_content();</code>                                             |
| Permalink     | URL           | <code>the_permalink();</code>                                           |

## Theme Files

| File                       | Purpose           | Notes                              |
|----------------------------|-------------------|------------------------------------|
| <code>style.css</code>     | Theme metadata    | Theme Name, Author, Version        |
| <code>functions.php</code> | Hooks + setup     | Enqueue scripts, add support       |
| <code>index.php</code>     | Fallback template | Last resort                        |
| <code>single.php</code>    | Single post       | <code>single-{posttype}.php</code> |
| <code>page.php</code>      | Static pages      | <code>page-{slug}.php</code>       |

## Hooks: Actions & Filters

| Type          | Use         | Example                                                |
|---------------|-------------|--------------------------------------------------------|
| add_action    | Run code    | <code>add_action('init', 'my_init');</code>            |
| add_filter    | Modify data | <code>add_filter('the_content', 'add_notice');</code>  |
| remove_action | Disable     | <code>remove_action('wp_head', 'wp_generator');</code> |
| Priority      | Order       | <code>add_action('init', 'fn', 20);</code>             |

## Enqueue Scripts & Styles

| Task         | Function      | Example                                                                               |
|--------------|---------------|---------------------------------------------------------------------------------------|
| Styles       | Load CSS      | <code>wp_enqueue_style('theme', get_stylesheet_uri());</code>                         |
| Scripts      | Load JS       | <code>wp_enqueue_script('app', get_theme_file_uri('/app.js'), [], null, true);</code> |
| Dependencies | Order scripts | <code>['jquery']</code>                                                               |
| Versioning   | Cache bust    | <code>wp_enqueue_style('theme', \$src, [], wp_get_theme()-&gt;get('Version'));</code> |

## Custom Post Types & Taxonomies

| Task              | Function       | Example                                                      |
|-------------------|----------------|--------------------------------------------------------------|
| Register CPT      | Custom content | <code>register_post_type('project', [...]);</code>           |
| Register taxonomy | Categories     | <code>register_taxonomy('skill', 'project', [...]);</code>   |
| Supports          | Features       | <code>'supports'=&gt;['title', 'editor', 'thumbnail']</code> |
| Public            | Visibility     | <code>'public'=&gt;true</code>                               |

## Security Essentials

| Practice     | Why             | Example                                           |
|--------------|-----------------|---------------------------------------------------|
| Escaping     | Prevent XSS     | <code>esc_html(\$title)</code>                    |
| Sanitizing   | Clean input     | <code>sanitize_text_field(\$_POST['name'])</code> |
| Nonces       | CSRF protection | <code>wp_nonce_field('save_post')</code>          |
| Capabilities | Permissions     | <code>current_user_can('edit_post', \$id)</code>  |

## Database & Queries

| Tool         | Use            | Example                                                                |
|--------------|----------------|------------------------------------------------------------------------|
| \$wpdb       | Direct SQL     | <code>\$wpdb-&gt;get_results("SELECT * FROM \$wpdb-&gt;posts");</code> |
| prepare      | Safe queries   | <code>\$wpdb-&gt;prepare("SELECT * FROM t WHERE id=%d", \$id);</code>  |
| Meta queries | Filter by meta | <code>['key'=&gt;'views','value'=&gt;100,'compare'=&gt;'&gt;']</code>  |
| WP_Query     | Custom loops   | <code>new WP_Query(['post_type'=&gt;'project']);</code>                |

## Performance Tips

| Tip                    | Why          | Notes                                         |
|------------------------|--------------|-----------------------------------------------|
| Avoid queries in loops | Speed        | Use one query                                 |
| Transients             | Cache data   | <code>set_transient('key',\$data,3600)</code> |
| Disable bloat          | Lean output  | Remove emoji scripts                          |
| Lazy loading           | Faster pages | <code>add_theme_support('lazy-load')</code>   |