

# Autoloading Your Code

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# Summary

**Autoloading Standards**

**Autoloading Code WITHOUT Composer**

**Autoloading With Composer**

**Under The Hood**

# PHP-FIG

The PHP Framework Interop Group

PSR

PHP Standard Recommendation

PSR-0 vs. PSR-4

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# PSR-0

```
vendor/  
  vendor_name/  
    package_name/  
      src/  
        Vendor_Name/  
          Package_Name/  
            ClassName.php      # Vendor_Name\Package_Name\ClassName  
      tests/  
        Vendor_Name/  
          Package_Name/  
            ClassNameTest.php  # Vendor_Name\Package_Name\ClassNameTest
```

# PSR-4

```
vendor/  
  vendor_name/  
    package_name/  
      src/  
        ClassName.php      # Vendor_Name\Package_Name\ClassName  
      tests/  
        ClassNameTest.php  # Vendor_Name\Package_Name\ClassNameTest
```

# Differences Between Autoloading Standards

## **PSR-0**

**Can determine exact path from class**

**Underscores designate directories**

**Potentially chaotic folders**

**“Clarity Oriented”**

## **PSR-4**

**Must look at namespace**

**Map namespaces to arbitrary folders**

**Concise folder structure**

**“Package Oriented”**



```
spl_autoload_register  
spl_autoload_extensions  
spl_autoload_functions  
spl_autoload_unregister
```

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# Autoloading Code Without Composer

```
spl_autoload_register([ callable $autoload_function [,  
bool $throw = true [, bool $prepend = false ]]])  
spl_autoload_extensions  
spl_autoload_functions  
spl_autoload_unregister
```

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## Autoloading Code Without Composer

```
spl_autoload_register  
spl_autoload_extensions([ string $file_extensions ])  
spl_autoload_functions  
spl_autoload_unregister
```

---

## Autoloading Code Without Composer

```
spl_autoload_register  
spl_autoload_extensions  
spl_autoload_functions( void )  
spl_autoload_unregister
```

---

# Autoloading Code Without Composer

```
spl_autoload_register  
spl_autoload_extensions  
spl_autoload_functions  
spl_autoload_unregister( mixed $autoload_function )
```

---

## Autoloading Code Without Composer

```
{  
    "autoload": {  
        "psr-4": {  
            "Monolog\\": "src/"  
        }  
    }  
}
```

---

## Autoloading Code With Composer

```
{  
    "autoload": {  
        "psr-4": {  
            "Monolog\\": ["src/", "lib/"]  
        }  
    }  
}
```

---

## Autoloading Code With Composer

```
{  
    "autoload": {  
        "psr-4": {  
            "Monolog\\": ["src/", "lib/"],  
            "Vendor\\Namespace\\": ""  
        }  
    }  
}
```

---

## Autoloading Code With Composer



```
{  
    "autoload": {  
        "psr-4": {  
            "Monolog\\": ["src/", "lib/"],  
            "Vendor\\Namespace\\": ""  
        },  
        "files": ["src/functions.php"]  
    }  
}
```

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## Autoloading Code With Composer

# Benefits of Autoloading

**Only load the code you need**

**Code is easy to find**

**No more require statements**