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This rule matches anything (.\*) and captures it (()), then rewrites it to append ".html". In other words, if /foo/bar was the requested URL, it will be handled as if /foo/bar.html had been requested. See (www.regular-expressions.info) for more information about regular expression matching, capturing and replacements.

Another often encountered rule is this:

```
RewriteRule (.*) index.php?url=$1
```

This, again, matches anything and rewrites it to the file index.php with the originally requested URL appended in the url or any parameter i.e. for any and all requests coming in, the file index.php is executed and this file will have access to the original request in \$\_GET['url'], so it can do anything it wants with it.

What mod\_rewrite does not do

mod\_rewrite does not magically make all your URLs "pretty". This is a common misunderstanding.

If you have this link in your website:

```
<a href="/my/ugly/link.php?is=not&amp;very=pretty">
```

There is nothing mod\_rewrite can do to make that pretty. In order to make this a pretty pretty link, you have to:

1. Change the link to a pretty link:

```
<a href="/my/pretty/link">
```



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2. Use mod\_rewrite on the server to handle the request to the URL /my/pretty/link using any one of the methods described above.

There is a lot mod\_rewrite can do and very complex matching rules you can create, including chaining several rewrites, proxying requests to a completely different service or machine, returning specific HTTP status codes as responses, redirecting requests etc. It is very powerful and can be used to great good if you understand the fundamental HTTP request-response mechanism. It does not automatically make your links pretty.

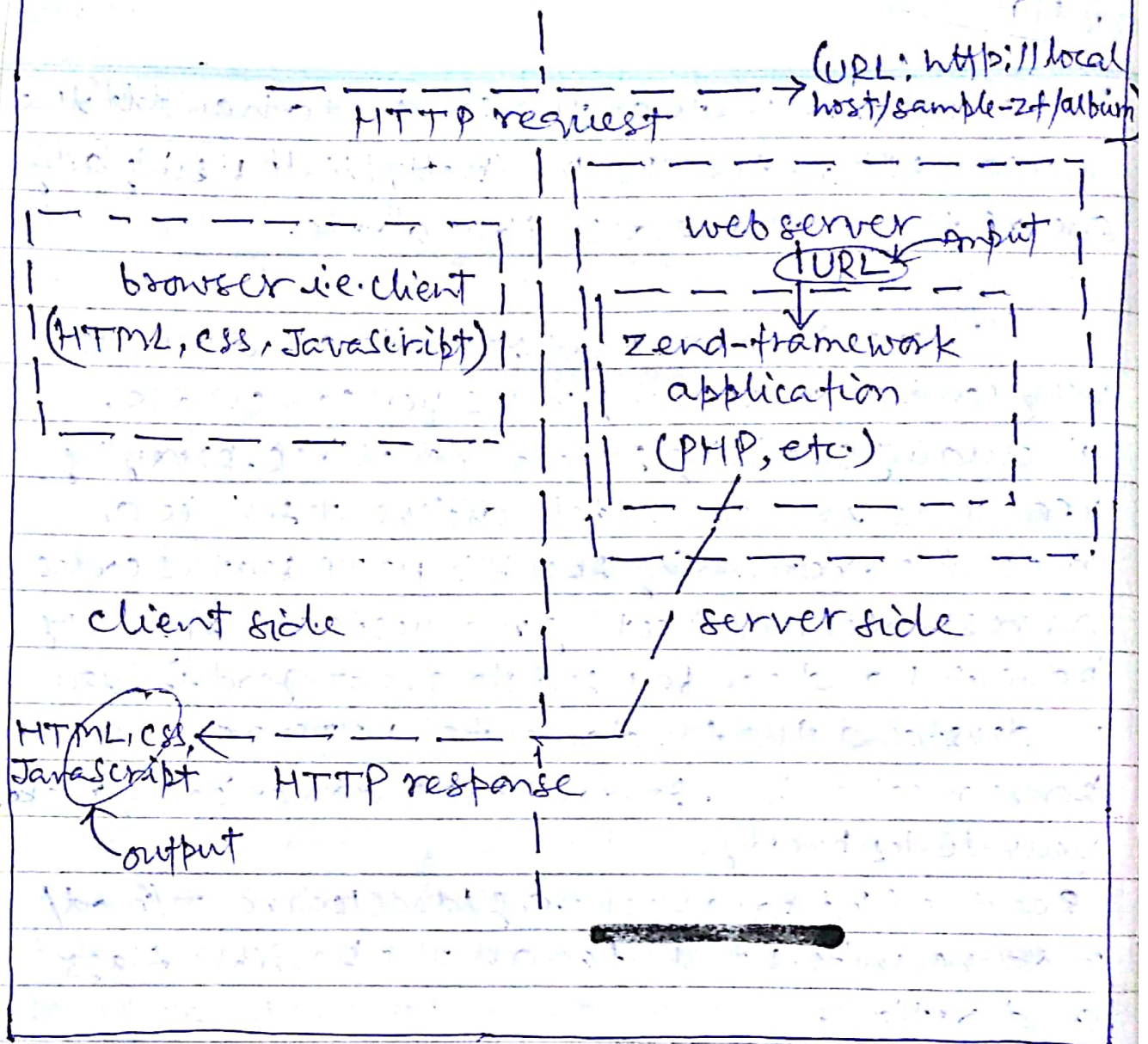
See the ([httpd.apache.org/docs/current/mod/mod\\_rewrite.html](http://httpd.apache.org/docs/current/mod/mod_rewrite.html)) for all the possible flags and options.

Reference: [stackoverflow.com/questions/20563772/reference-mod-rewrite-url-rewriting-and-pretty-links-explained](http://stackoverflow.com/questions/20563772/reference-mod-rewrite-url-rewriting-and-pretty-links-explained)

(more rewrite example)  $\Rightarrow$  see the 2nd answer on this stackoverflow page

(Next page  $\Rightarrow$  web server working chart)





web server working chart

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## PHP: Pass by reference vs. Pass by value

<?php

```
function pass-by-value($param) {
```

```
    push-array($param, 3, 4);  
    array-push  
}
```

```
$ar = array(1, 2, 3);
```

```
pass-by-value($ar);
```

```
foreach ($ar as $elem) {
```

```
    print "$elem ";
```

```
}
```

Output:

The code above prints 1 2 3. This is because the array is passed as value.

```
function pass-by-reference(&$param) {
```

```
    array-push($param, 4, 5);
```

```
}
```

```
$ar = array(1, 2, 3);
```

```
pass-by-reference($ar);
```

```
foreach ($ar as $elem) {
```

```
    print "$elem ";
```

```
}
```

Output:

The code above prints 1 2 3 4 5. This is because the array is passed as reference, meaning that the function pass-by-reference() does not manipulate a copy of the variable passed, but the actual variable itself.

In order to make a variable be passed by reference, it must be declared with a preceding ampersand (&) in the function's declaration.



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int sleep(int \$seconds)

Delays/Halt the program execution for the given number of seconds. Return zero on success and FALSE on error.

Example:

```
// current time  
echo date('H:i:s'). '<br>';  
// sleep for 10 seconds  
echo sleep(10);  
// wake up!  
echo date('H:i:s');
```

output explanation  
is very important

Output (This example will produce output after 30 sec.)

05:31:23

05:31:33

} ⇒ Both will be displayed exactly after 10 seconds. It will not

that firstly 05:31:23 displays & then after 10 seconds 05:31:33 will be displayed.

As we know how a web server work. The web server firstly collect the HTTP response by executing the whole PHP code on server side in one go & then send the HTTP response to the client (side) in form of HTML, CSS, JavaScript by browser

where firstly javascript execute/run & then HTML ~~interpretation~~ interpretation starts/loads by browser.