

# 수업 환경 구축

웹데이터베이스 구축 및 실습

# 구축 환경

- OS : Windows 7
  - 그외 OS의 경우 교재 p26-40 참조
  - Windows의 다른 버전은 조금 다르게 나타날 수 있음
- Browser : Google Chrome
  - 다른 브라우저를 사용해도 별 차이 없으나 추후 수업의 모든 과정은 크롬 사용
  - <http://chrome.google.com>

**APM 설치 : AUTOSET6**

# AUTOSET 설치(P40~46)

<http://www.autoset.org>



# AUTOSET 설치(P40~46)

오토셋 6.3.1 다운로드

autose.net/xe/download\_autoset\_6\_3\_1

오토셋 소개 | 무료 다운로드 | 튜토리얼 | 매뉴얼 | 커뮤니티

**AutoSet**

AutoSet은 쉽고 빠르게 웹 개발 환경, 운영 환경을 구축하기 위해 만들어진 프로그램입니다.  
1분 1초가 아까운 개발자, 운영자를 위해 오토셋은 다음과 같은 특징을 가지고 있습니다.

오토셋 6.3.1 | 오토셋 6.1.1 | 오토셋 6.0.0 | 오토셋 4.3.2 | 오토셋 4.3.1 | 오토셋 4.2.6

설치 파일 다운로드 (2011.08.16 재패키징 버전)

- 오토셋 6.3.1 전체 설치 파일 (권장) [용량: 93.1MB]

설치 파일 다운로드 (2011.03.28 릴리즈)

- 오토셋 6.3.1 전체 설치 파일 [용량: 80.2MB]
- 오토셋 6.3.1 설치 파일 용량 축소판 (큐브리드 매니저 비포함) [용량: 31.35MB]

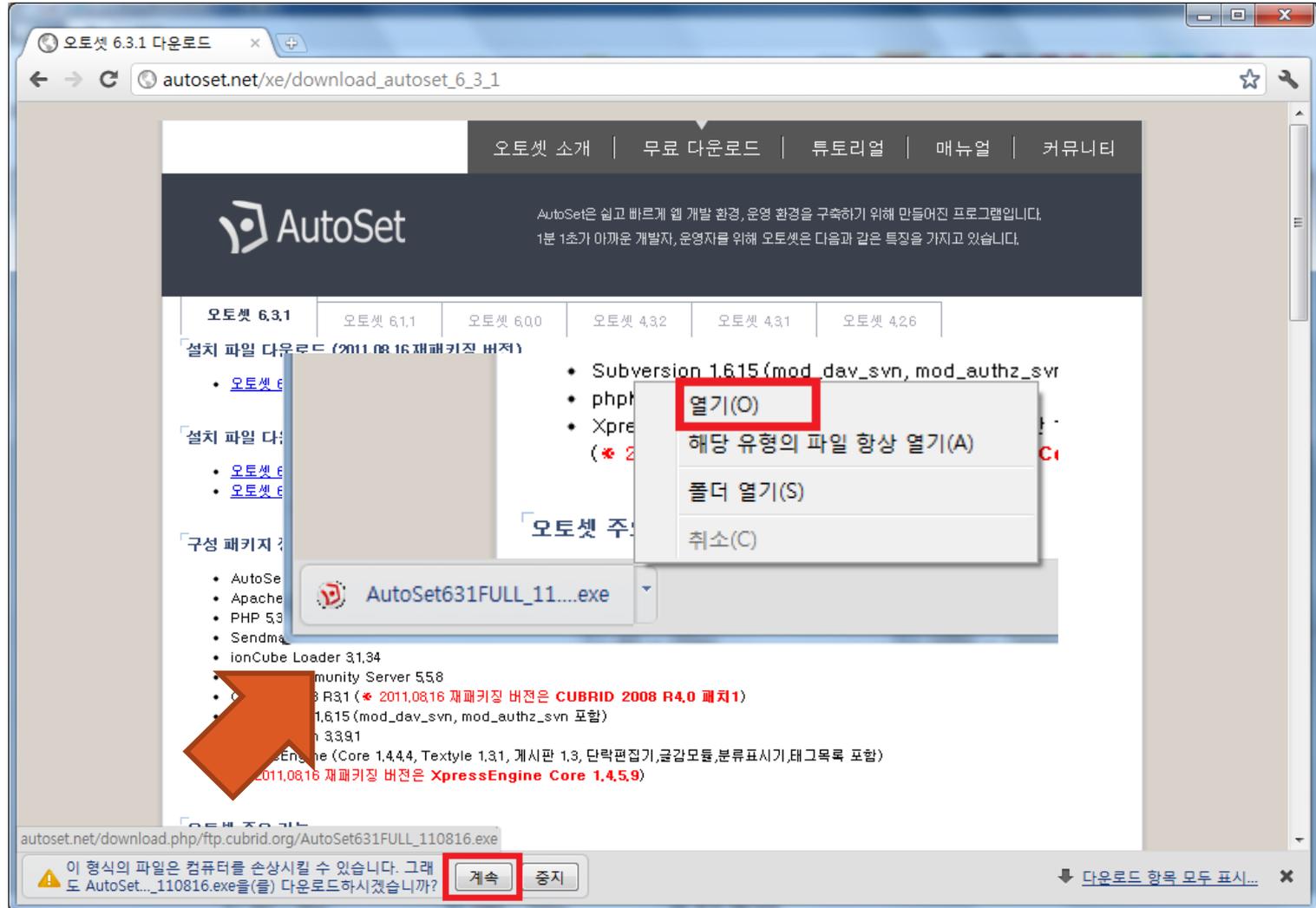
구성 패키지 정보

- AutoSet Manager 6.3.1 (GUI Tool)
- Apache HTTP Server 2.2.17 (openssl 0.9.9o, mod\_security 2.5.13, mod\_log\_rotate 1.00a 포함)
- PHP 5.3.5
- Sendmail version 31
- ionCube Loader 3.1.34
- MySQL Community Server 5.5.8
- CUBRID 2008 R3.1 (※ 2011.08.16 재패키징 버전은 **CUBRID 2008 R4.0 패치1**)
- Subversion 1.6.15 (mod\_dav\_svn, mod\_authz\_svn 포함)
- phpMyAdmin 3.3.9.1
- XpressEngine (Core 1.4.4.4, Textyle 1.3.1, 게시판 1.3, 단락편집기, 글감모듈, 분류표시기, 태그목록 포함)  
(※ 2011.08.16 재패키징 버전은 **XpressEngine Core 1.4.5.9**)

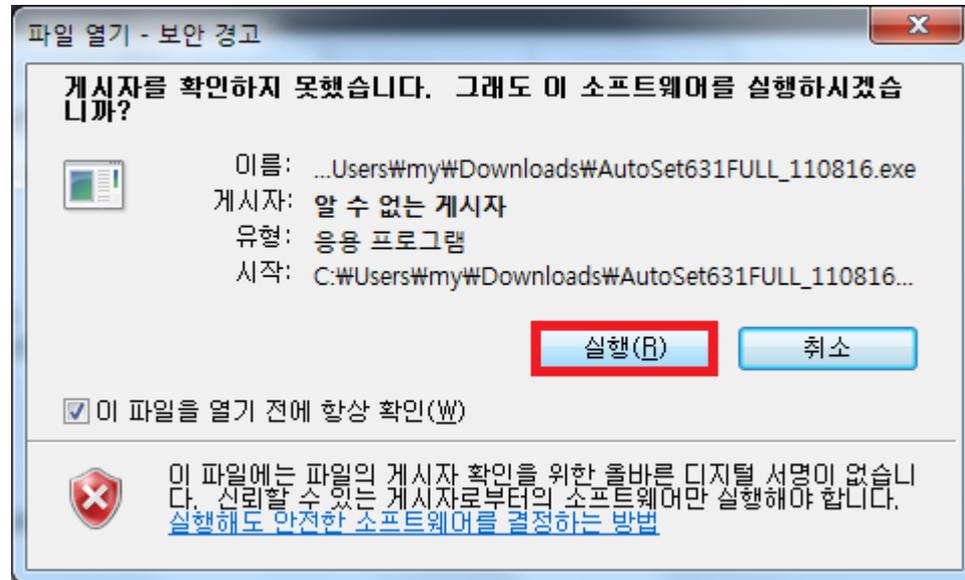
오토셋 주요 기능

- GUI 툴 이용한 Apache 및 PHP 설정 지원
- Apache 및 MySQL, SVN 백그라운드 실행 지원
- 가상호스트(VirtualHost) 관리/설정 지원

# AUTOSET 설치(P40~46)

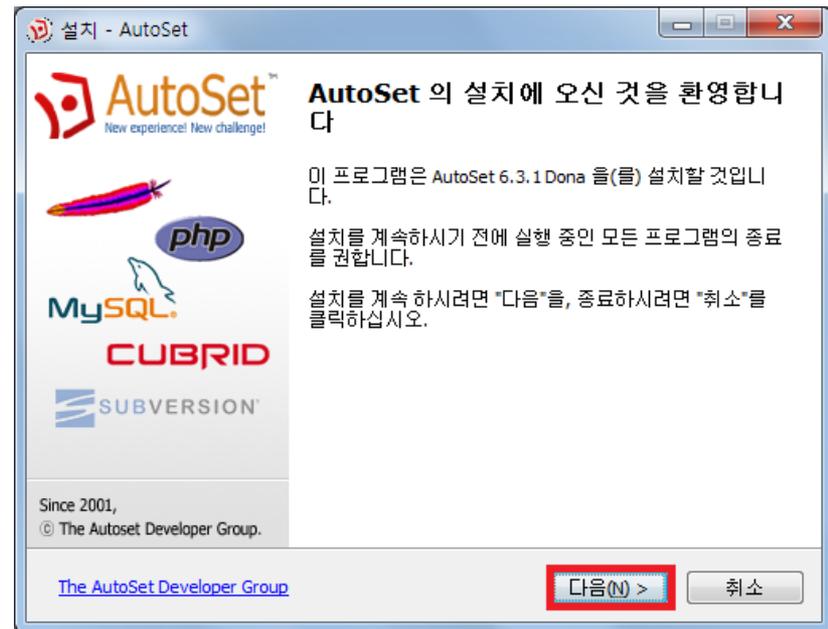
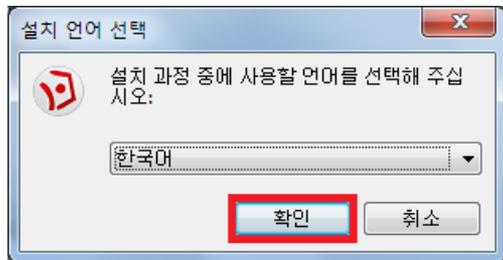


# AUTOSET 설치(P40~46)

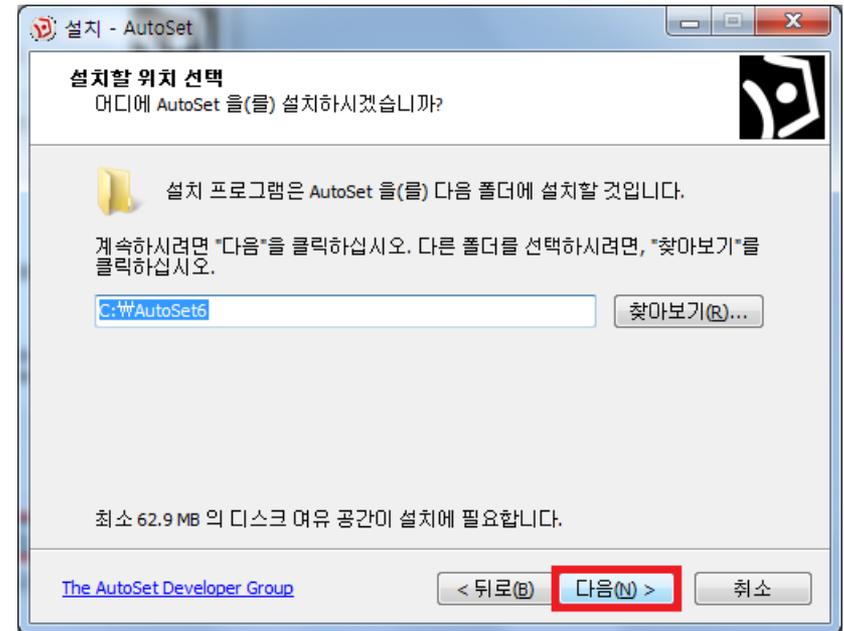
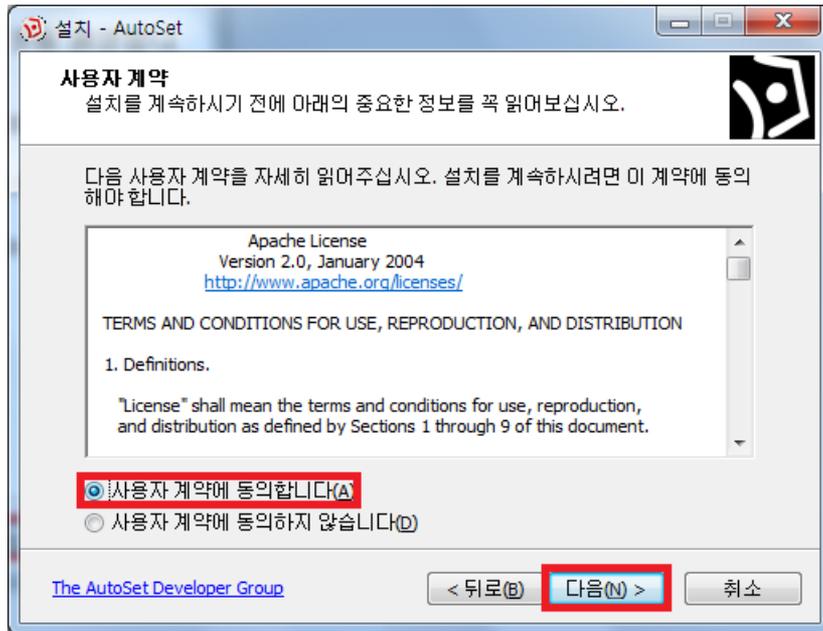


실행 후 사용자 계정 컨트롤이 물어볼 경우 “확인”

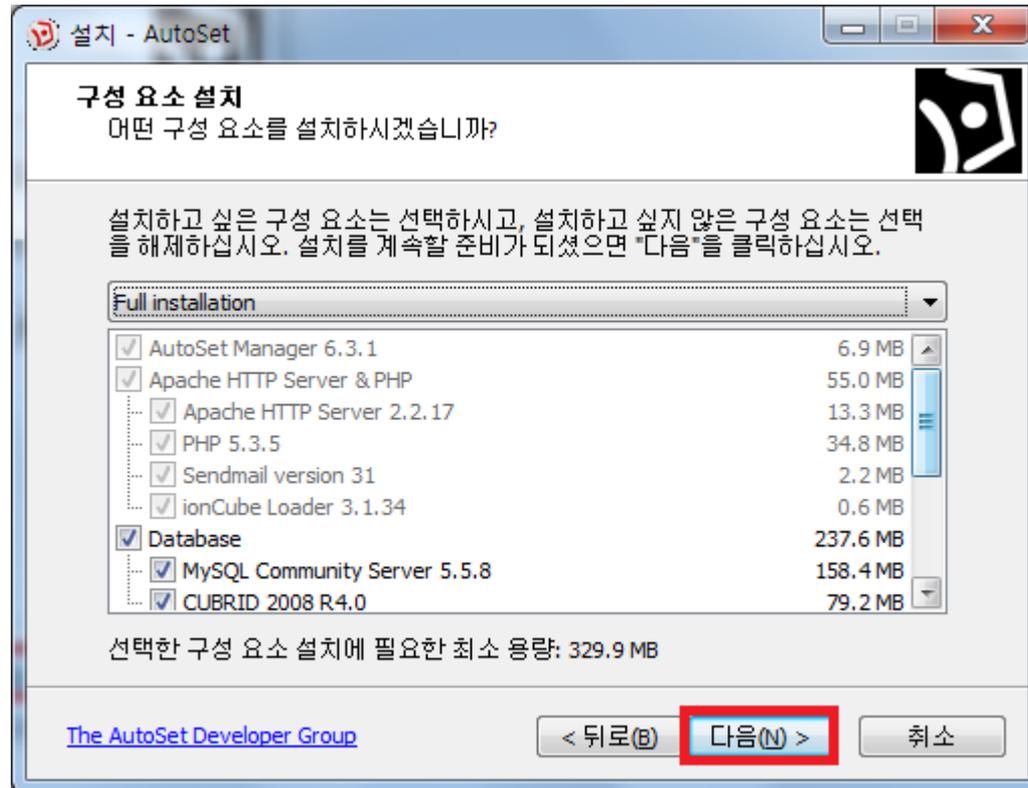
# AUTOSET 설치(P40~46)



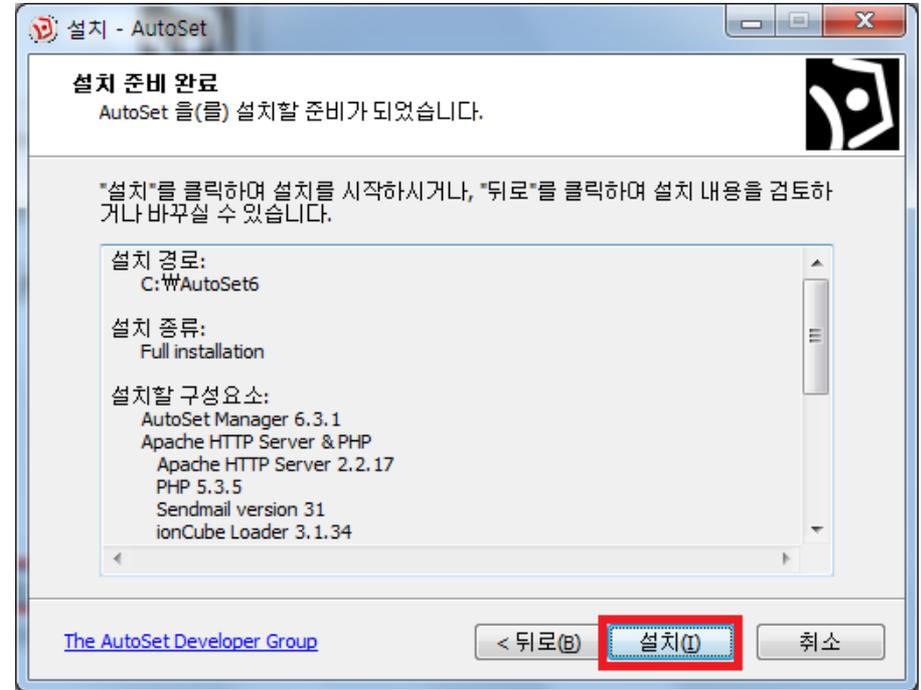
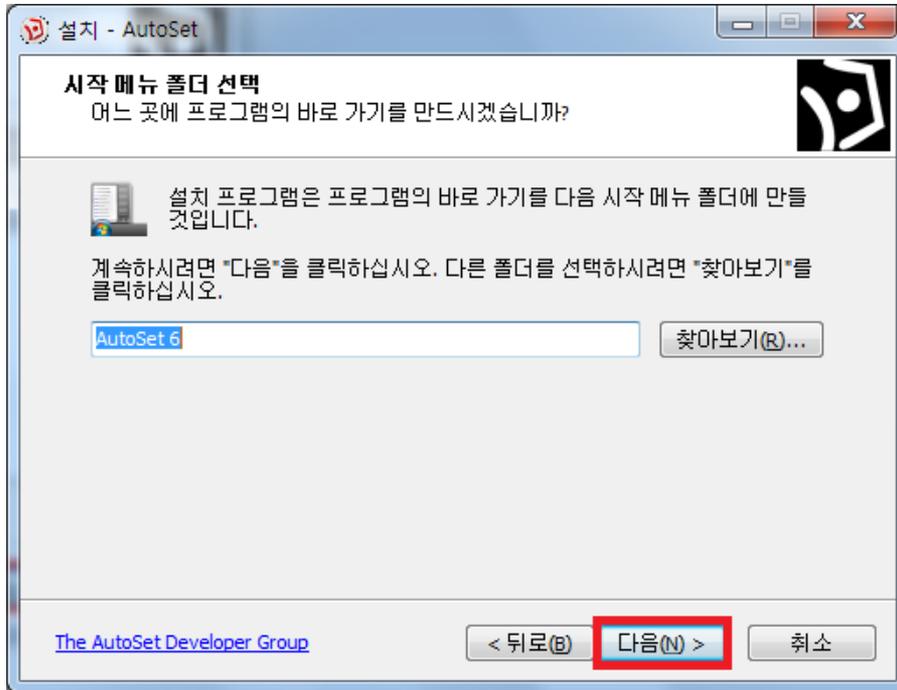
# AUTOSET 설치(P40~46)



# AUTOSET 설치(P40~46)



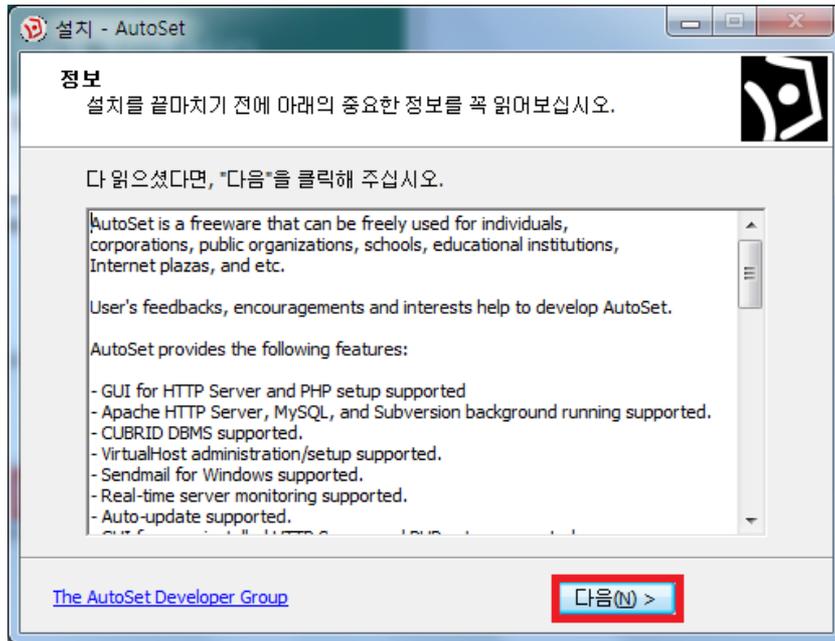
# AUTOSET 설치(P40~46)



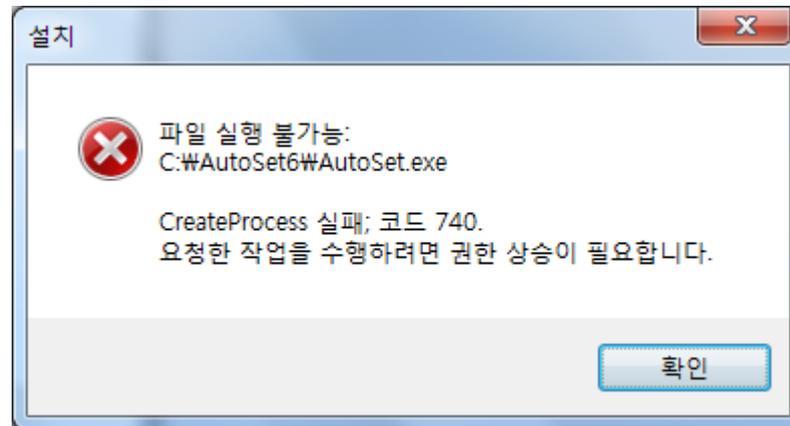
# AUTOSET 설치(P40~46)



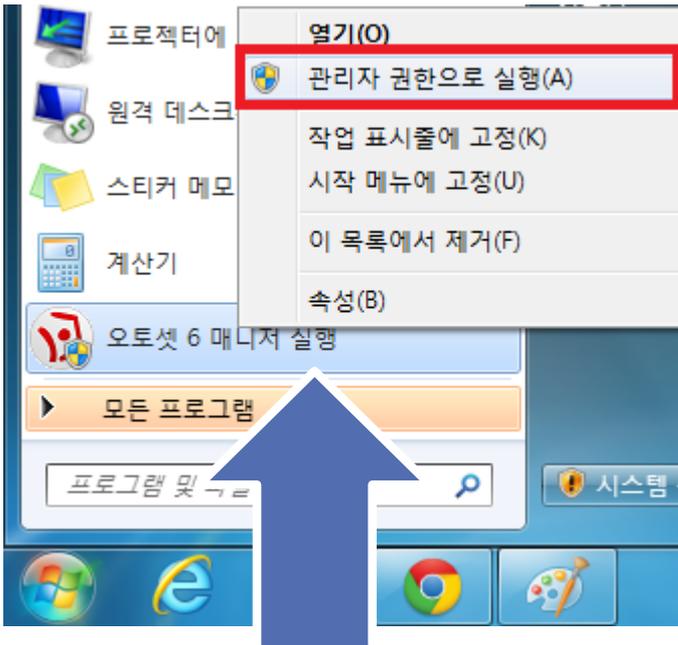
# AUTOSET 설치(P40~46)



# AUTOSET 설치(P40~46) : 에러발생



# AUTOSET 설치(P40~46) : 에러해결

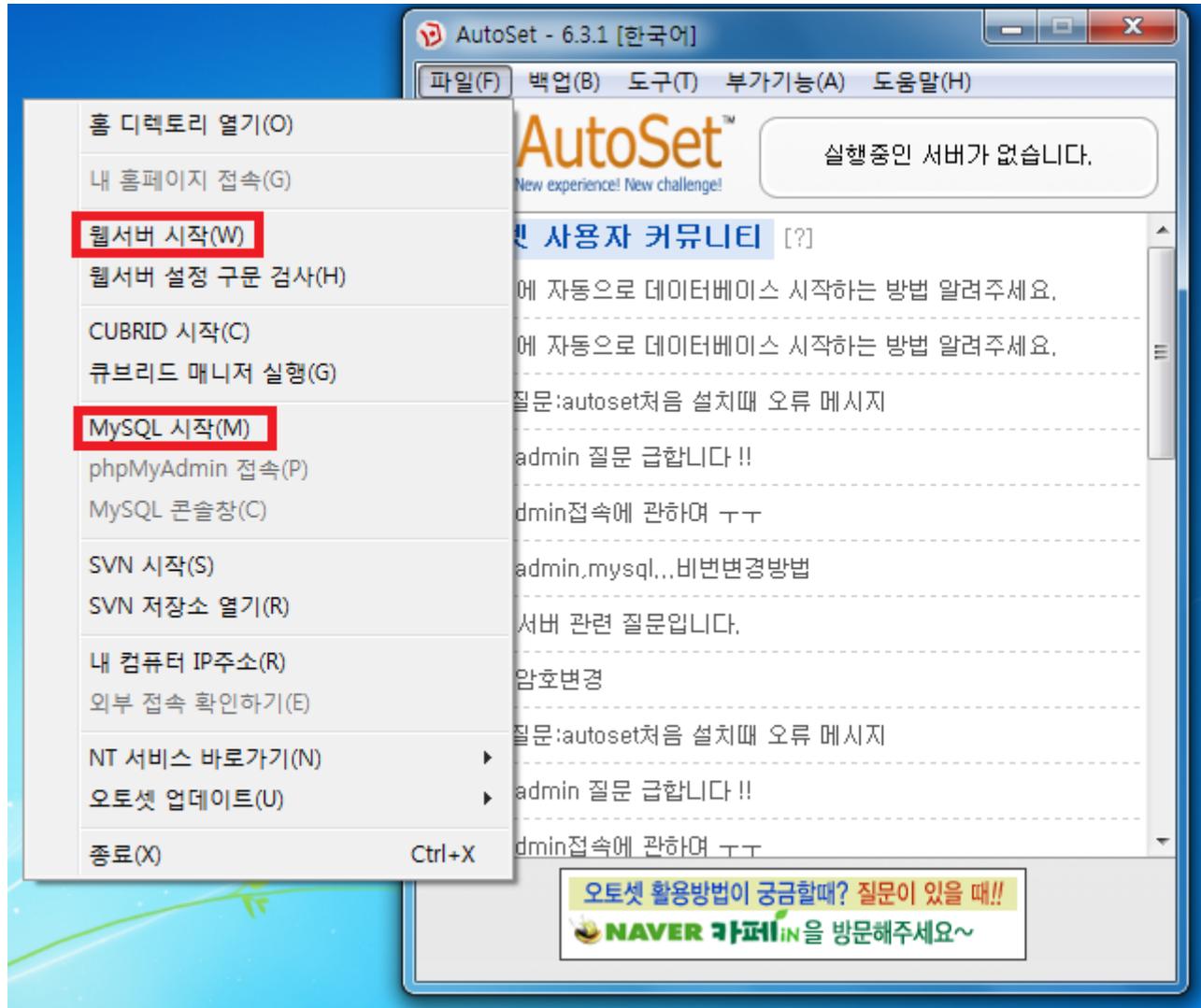


마우스 오른쪽 클릭

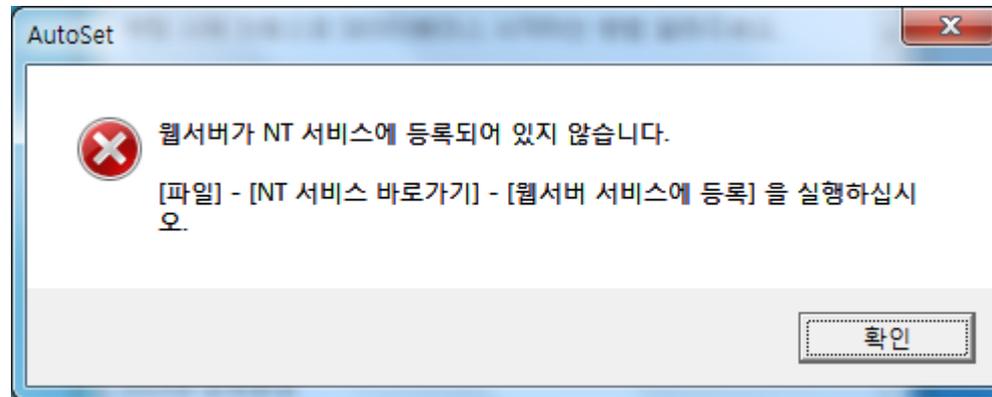
# AUTOSET 설치(P40~46) : 확인



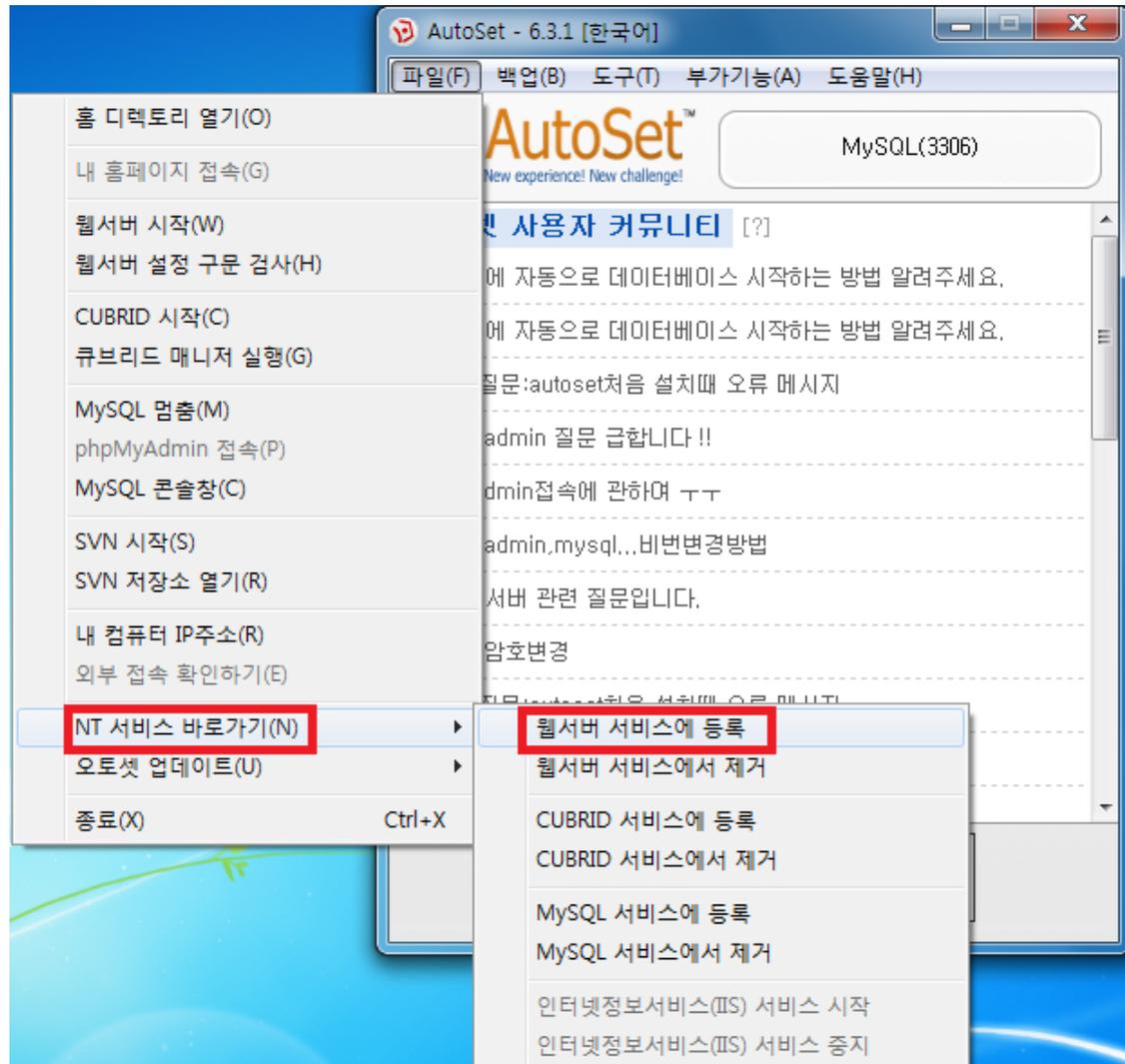
# AUTOSET 설치(P40~46) : 서버 기동



# AUTOSET 설치(P40~46) : 서버 기동 에러



# AUTOSET 설치(P40~46) : 서버 기동 에러 해결



# AUTOSET 설치(P40~46) : 기동 확인

오토셋 6.3.1 다운로드 x AutoSet 6.3.1 Installed (Re) x

localhost

**http://localhost**

**AutoSet**

오토셋은 윈도우 운영체제에 Apache HTTP Server, PHP, MySQL, CUBRID, Subversion 등의 서버 제품을 한번에 설치해 주는 기능과 이렇게 설치된 프로그램을 그래픽 사용자 인터페이스(GUI)를 통해 쉽게 설정의 변경, 관리를 할 수 있도록 지원하는 프로그램입니다.

AutoSet is a GUI based installer and administrative tool which enables to install Apache HTTP Server, PHP, MySQL, CUBRID, Subversion and Other packages at once and helps easy set-ups and management.

이 프로그램은 누구나 무료로 다운로드해 사용할 수 있습니다.  
Please feel free to download for anyone.

로> \public\_html 디렉토리에 홈페이지 파일을 작성해 넣으세요!  
Please put files in the <AutoSet installation path>/public\_html directory!

보인다면 <오토셋 설치 경로>\public\_html\index.php 파일을 삭제해 주시기 바랍니다.  
If you still see index.php, please remove it from the <AutoSet installation path>/public\_html directory.

**가입하기** 친구들이 좋아하는 것을 보려면 계정을 만들거나 로그인하세요.

**AutoSet** 좋아요

**AutoSet**

아래에 올린 Adobe의 Edge 말고, 다른 하나는 Hype 입니다. 2월 23일에 릴리즈되어 따끈따끈합니다~

Hype는 맥OS용 애플리케이션이예요.

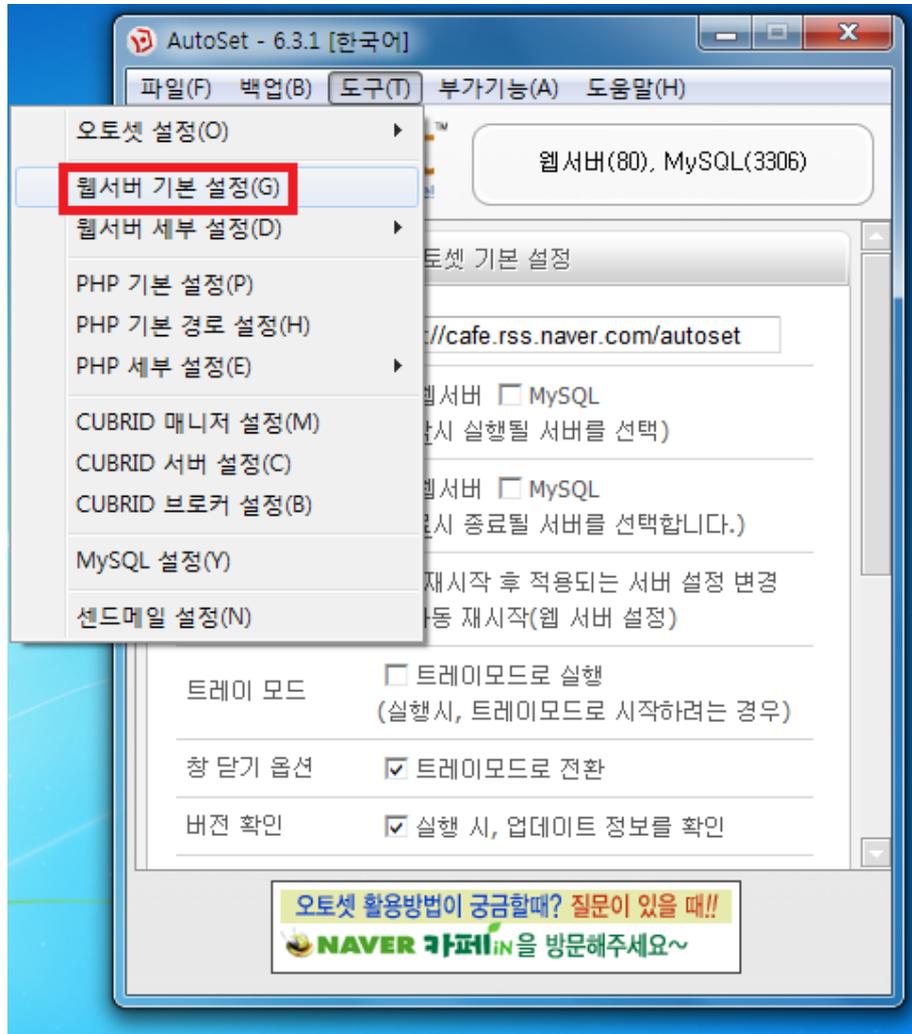
HTTP Server 2.2.17	PHP 5.3.5	MySQL 5.5.8	CUBRID 2008 R4.0 Patch 1	Subversion 1.6.15	XpressEngine 1.4.4.4

오토셋 매니저의 버전은 6.3.1이며, 포함된 패키지는 2011.03.27 기준 최신 버전입니다.  
The current version of AutoSet is 6.3.1 and it consists of the latest versions of packages on 2011.03.27.

오토셋에 대한 보다 자세한 정보를 원하시면 오토셋 공식 웹사이트를 방문하십시오.  
For more information about AutoSet, Please visit the official website of AutoSet.

URL : <http://www.autoset.net>

# AUTOSET 설치(P40~46) : 설정 확인



**DESYEDIT**

# 좋은 에디터? (P.48)

- 찾기과 찾아서 바꾸기 기능이 있는 에디터
  - 정규표현식을 지원하면 Very Good!
- 구문강조기능(Highlighting)이 있는 에디터
- FTP 연결을 통한 원격 파일 생성 및 수정 기능이 있는 에디터
  - 일반적으로 보안 ftp(sftp)는 상용버전
  - 또한 cvs, subversion, git 등의 버전관리 서비스의 클라이언트 기능이 지원 되면 Very Good!
- 실행취소와 다시 실행이 자유로운 에디터
- 소스 앞에 몇 번째 줄인지 표시가 되는 에디터
- 무료로 배포되는 에디터

# DESYEDIT 설치

http://www.desyedit.com

The image shows a screenshot of the DesyEdit website in a web browser. The browser address bar shows 'www.desyedit.com'. The website has a blue header with the 'DesyEdit' logo and navigation links like '로그인' (Login) and '한국 | English'. Below the header is a search bar with 'Google' and '맞춤검색' (Custom Search) options. On the left side, there is a sidebar menu with categories: '홈으로' (Home), '제품 소개' (Product Introduction), '제품 특징' (Product Features), '새로운 기능' (New Features), '자주하는 질문' (Frequently Asked Questions), '활용법' (Usage), '다운로드' (Download), '커뮤니티' (Community), and '에디트' (Edit). The '다운로드' link is highlighted with a red box. The main content area contains a welcome message: 'DesyEdit 홈페이지에 오신것을 환영합니다.' (Welcome to the DesyEdit homepage). Below this, there are three paragraphs of text describing the software's features, such as its use of minimal system resources, support for various programming languages, and its 100% free status. At the bottom of the website screenshot, there is an inset image showing the DesyEdit v3.0 IDE interface. The IDE has a menu bar (File, Edit, Search, Project, View, Format, Tools, Macro, Window, Help) and a toolbar. It displays two windows: one showing HTML code for a 'Welcome to DesyEdit' page and another showing C# code for a 'WM\_DESTROY' message handler.

# DESYEDIT 설치

The screenshot shows a web browser window with the URL [www.desyedit.com/ko/downloads](http://www.desyedit.com/ko/downloads). The page features the DesyEdit logo and a navigation menu on the left. A prominent banner for a Groupon deal is visible, offering a free ticket to Lotte World for 9,900 won. The main content area is titled '최신 버전' (Latest Version) and highlights 'DesyEdit 3.5 설치 버전' (DesyEdit 3.5 installation version) in a red box. Below this, there are links for the Korean and English installation guides. A list of updates includes a fix for a Unicode document auto-save bug. The '개발자용 Edit Engine' (Developer Edit Engine) section mentions SHEdit 4 (090919) and notes that DesyEdit uses Edit Control, with a warning that SHEditCtrl is not for commercial use.

DesyEdit(데이지예디트) - [x] +

www.desyedit.com/ko/downloads

로그인

한글 | English .

캐주얼 Google™ 맞춤검색 검색

홈으로

제품 소개

제품 특징

새로운 기능

자주하는 질문

활용법

다운로드

커뮤니티

- 공지사항
- 요청 게시판
- 버그 신고
- 사용자 자료실
- 테스터 게시판

Google 광고

한글

에디트

Control Downloads

**DesyEdit 3.5 설치 버전**

DesyEdit 3.5 무설치 버전 (한글)

DesyEdit 3.5 무설치 버전 (영문)

- Unicode 문서의 자동저장버그 수정

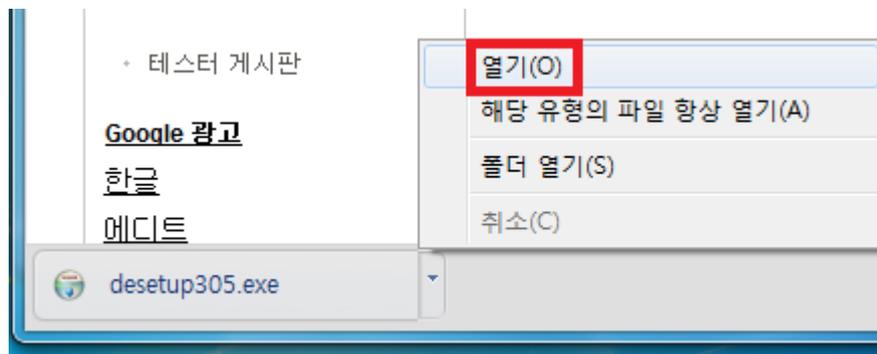
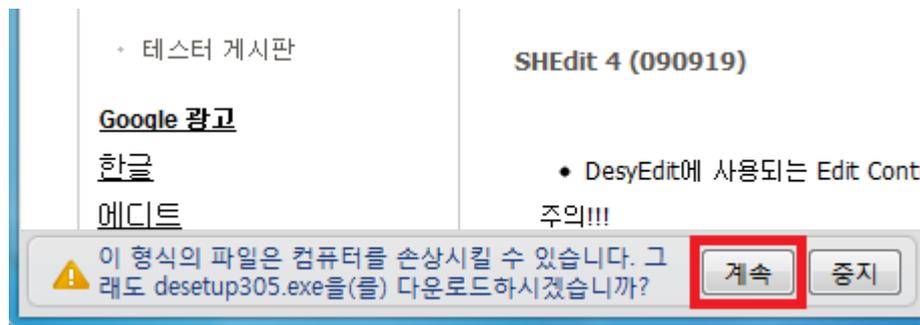
개발자용 Edit Engine

SHEdit 4 (090919)

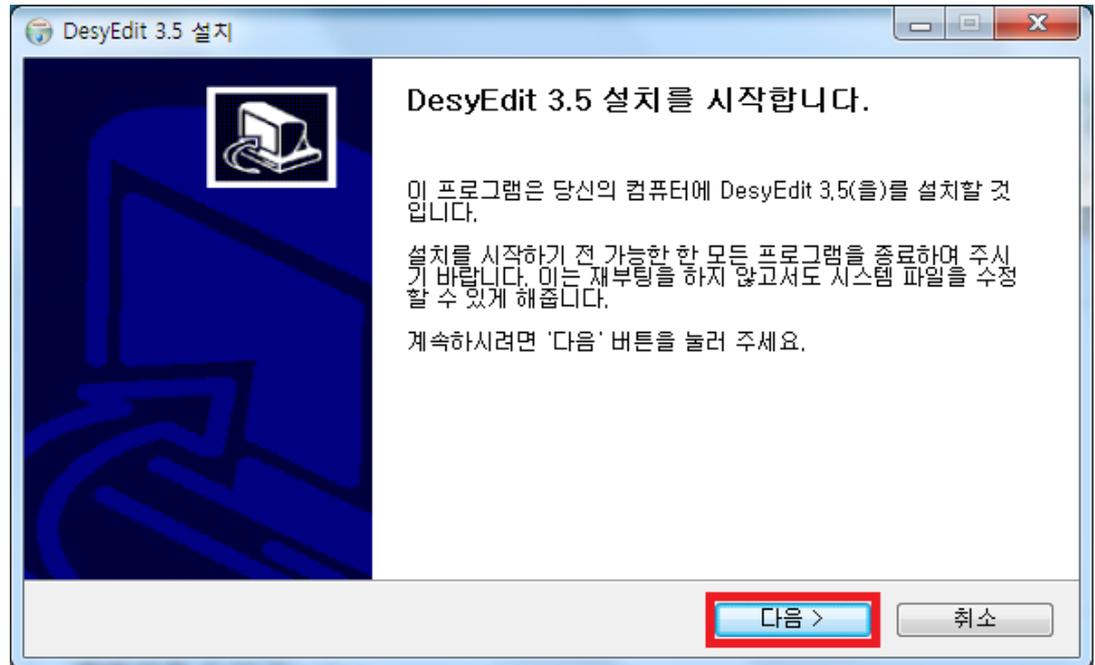
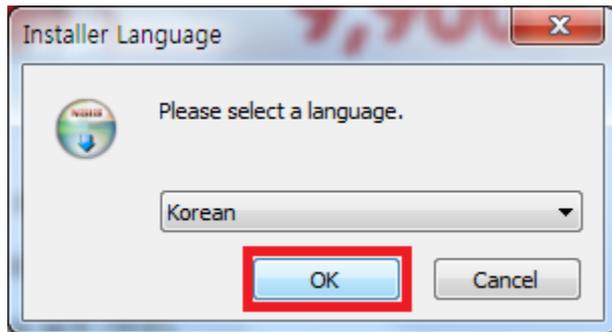
- DesyEdit에 사용되는 Edit Control 주의!!!

SHEditCtrl은 상업적 목적으로 사용할 수 없습니다.  
사원용 문점의 인기 사용 가능해집니다.

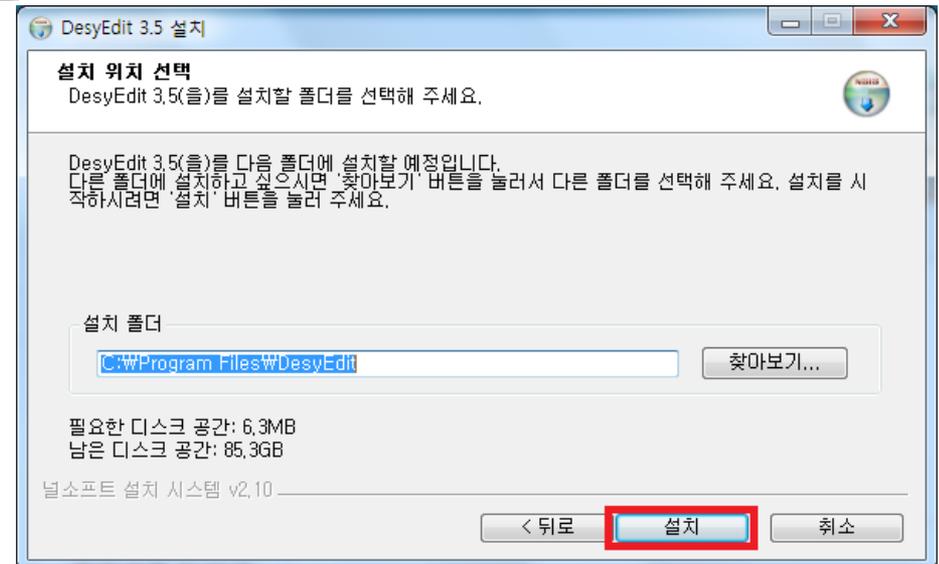
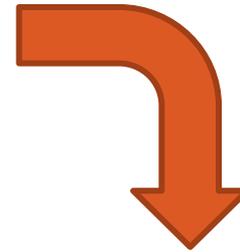
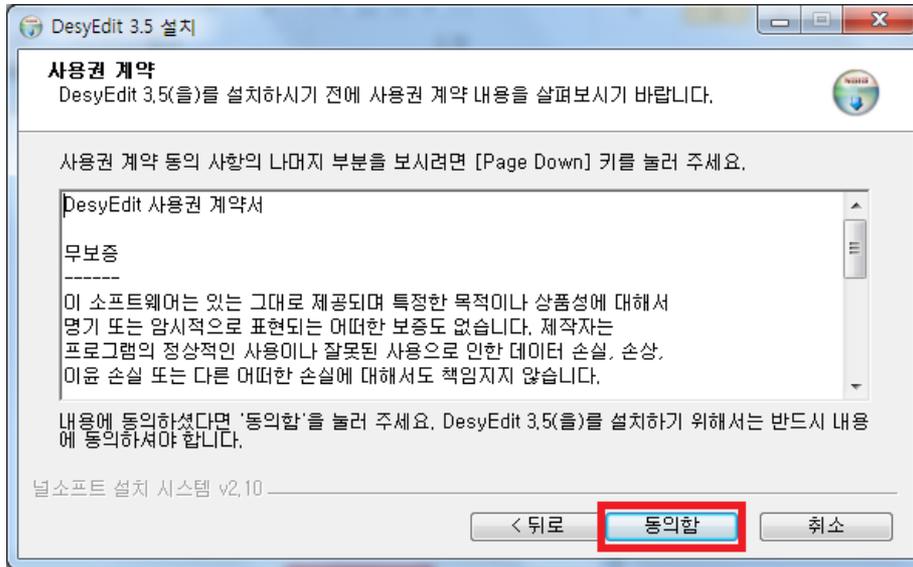
# DESYEDIT 설치



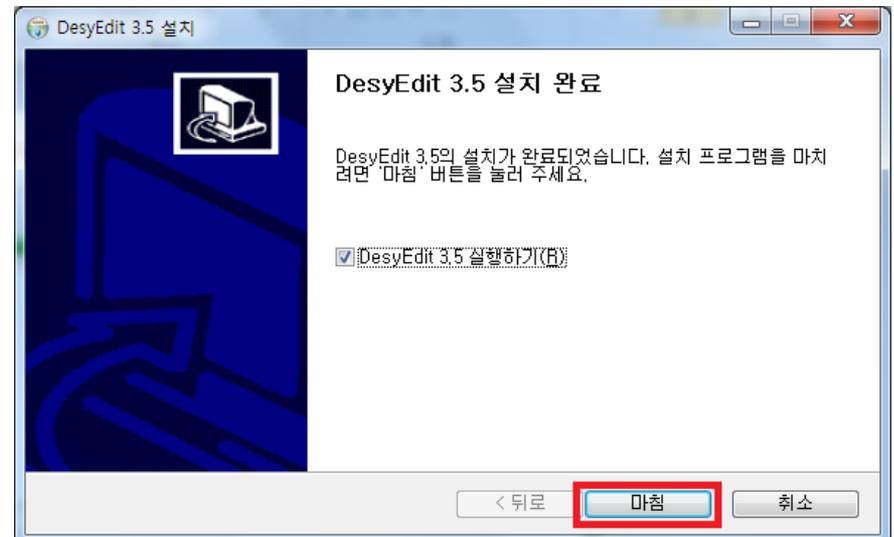
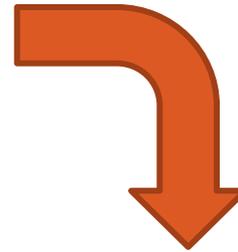
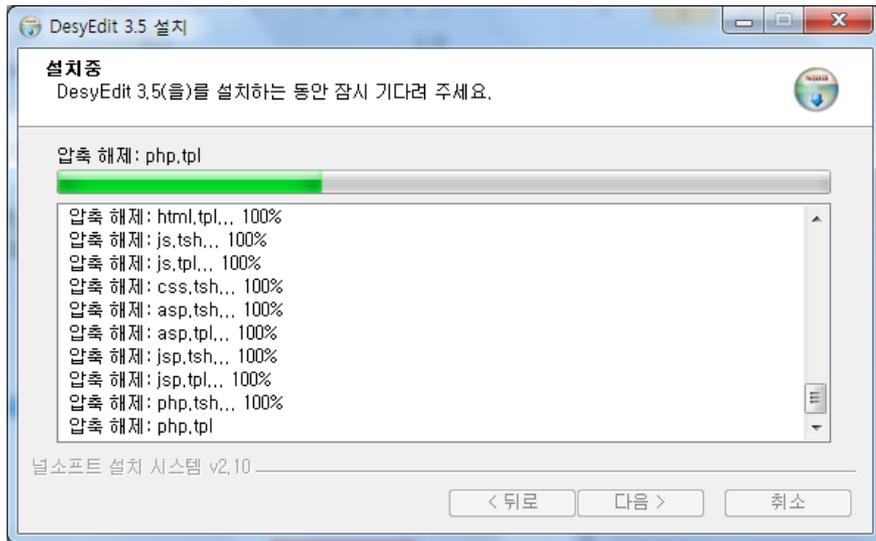
# DESYEDIT 설치



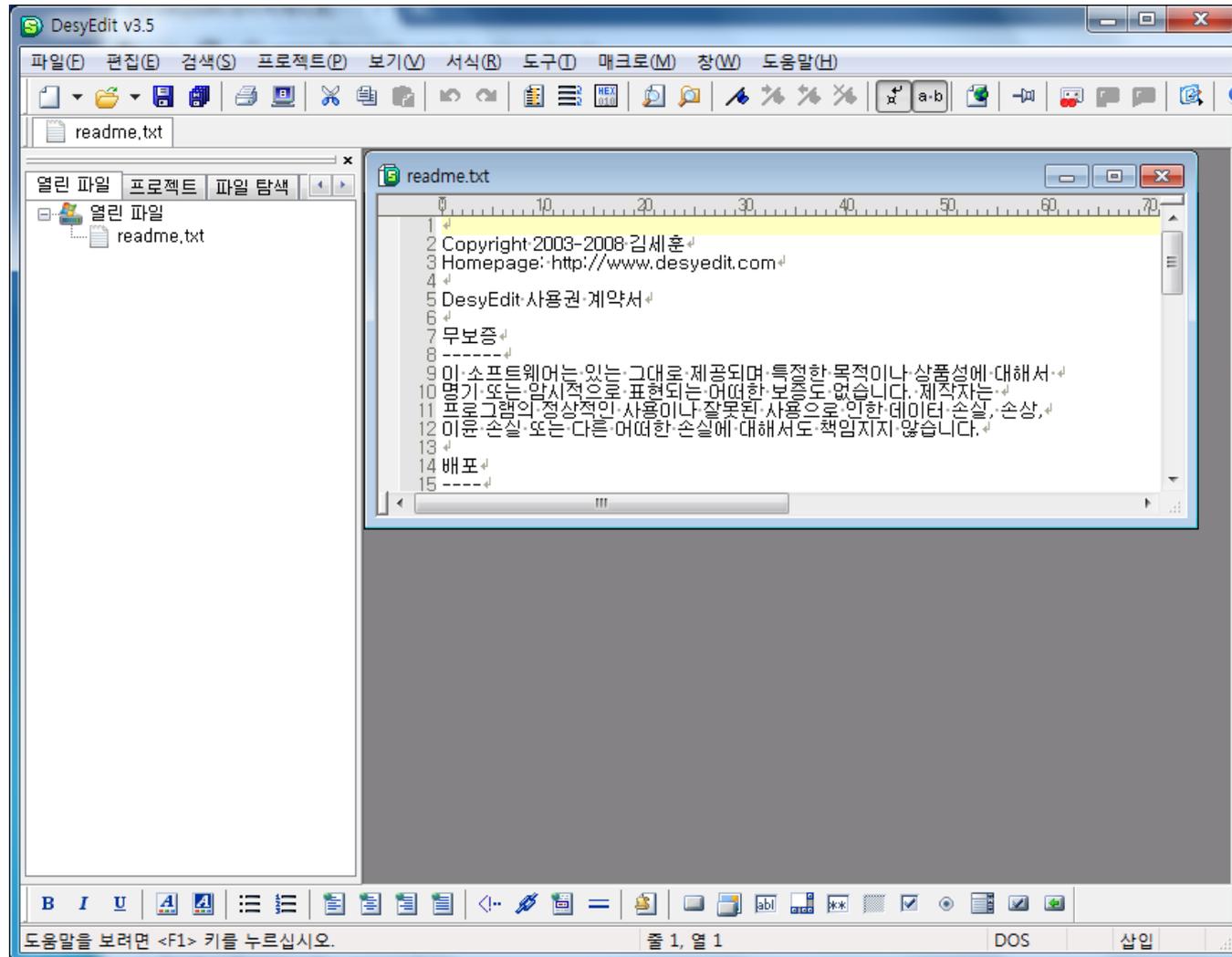
# DESYEDIT 설치



# DESYEDIT 설치



# DESYEDIT 설치



# 실습 – 첫번째 PHP 파일 만들기

1. 다음을 c:\WAutoset6\Wpublic\_html 에  
hello.php로 저장하시오.

```
<!DOCTYPE html>
<html>
<head>
<?php
$title = "Hello, PHP!";
?>
  <title><?php echo $title;?></title>
</head>
<body>
  <h1><?php echo $title;?></title>
</body>
</html>
```

2. Web Browser를 열고 다음과 같이 입력하십시오.

<http://localhost/hello.php>

3. Web Browser에서 소스보기를 실시하고 1에서 입력한 소스 코드와 무엇이 달라졌는지 확인해 보시오.

PHP

1 : Computer

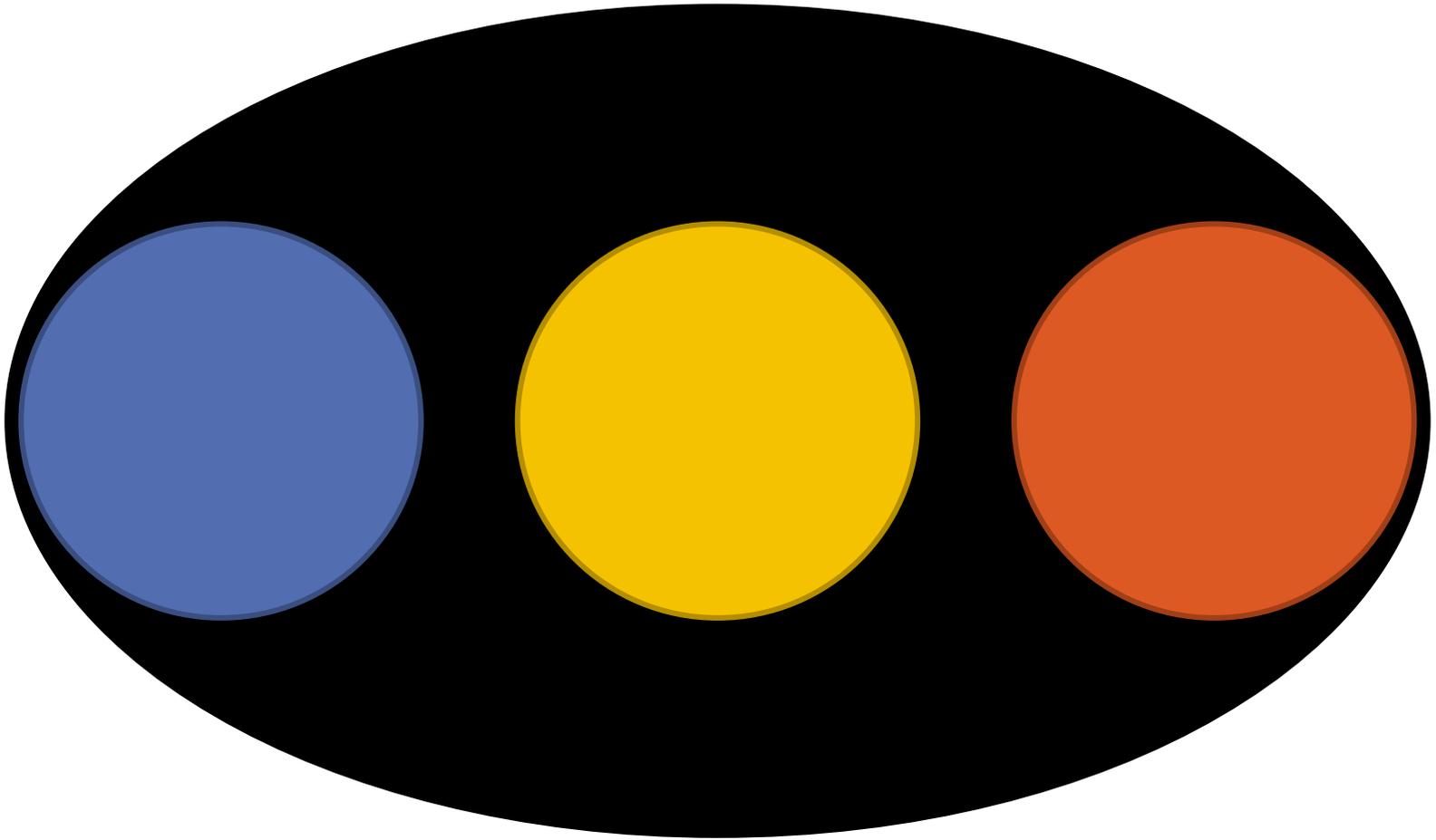
?

2 :

?

3 : 0 1

?



```
00004d0 0000 0000 ffff ffff 0000 0000 ffff ffff
00004e0 0000 0000 0000 0000 940c 0804 0000 0000
00004f0 0000 0000 825a 0804 0000 0000 4700 4343
0000500 203a 4728 554e 2029 2e33 2e32 2033 3032
0000510 3330 3530 3230 2820 6552 2064 6148 2074
0000520 694c 756e 2078 2e33 2e32 2d33 3335 0029
0000530 4700 4343 203a 4728 554e 2029 2e33 2e32
0000540 2033 3032 3330 3530 3230 2820 6552 2064
0000550 6148 2074 694c 756e 2078 2e33 2e32 2d33
0000560 3335 0029 4700 4343 203a 4728 554e 2029
0000570 2e33 2e32 2033 3032 3330 3530 3230 2820
```

```
        .file    "a.c"
        .text
.globl main
        .type    main,@function
main:
        pushl   %ebp
        movl    %esp, %ebp
        subl   $8, %esp
        andl   $-16, %esp
        movl   $0, %eax
        subl   %eax, %esp
        movl   $0, %eax
        leave
        ret
.Lfe1:
```

```
#include <stdio.h>

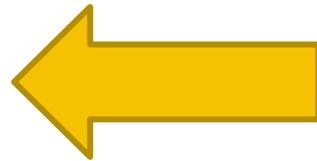
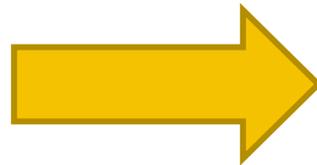
int main() {
    printf "Hello, World!";
    return 0
}
```

# PHP

## Server



<http://localhost/hello.html>

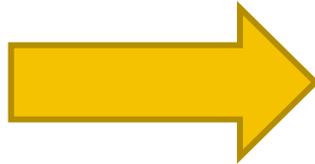


<http://localhost>

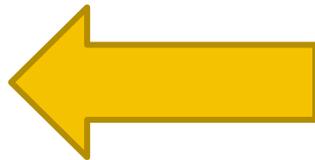
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello, PHP</title>
  </head>
  <body>
    <h1>Hello, PHP</title>
  </body>
</html>
```

# PHP



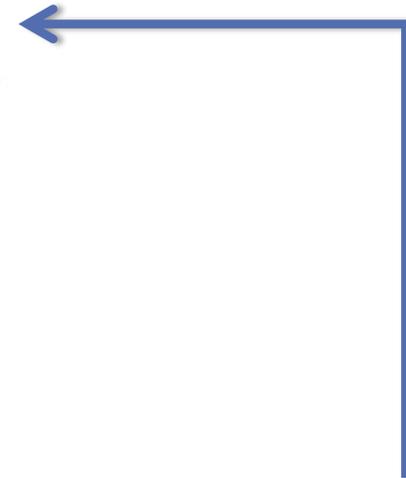
http://localhost/hello.php



APACHE  
HTTP SERVER



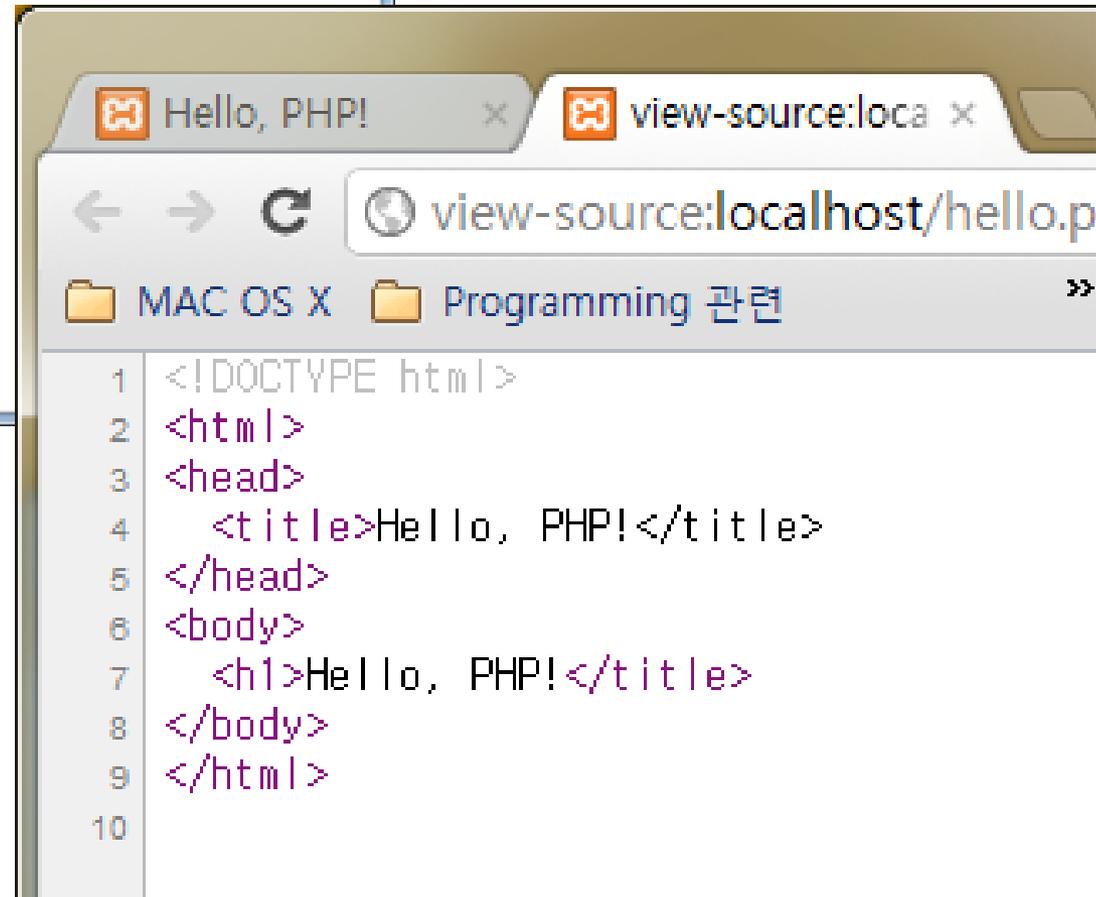
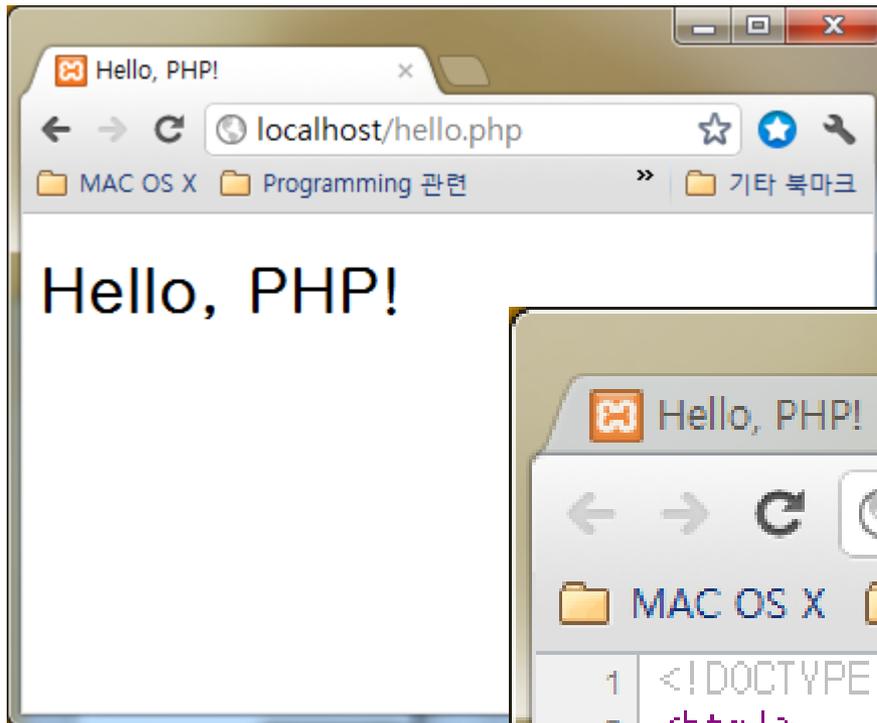
```
<!DOCTYPE html>
<html>
<?php
$title = "Hello, PHP";
?>
  <head>
    <title><?php echo $title;?></title>
  </head>
  <body>
    <h1><?php echo $title;?></h1>
  </body>
</html>
```



# PHP 가

1. <!DOCTYPE html>  
<html>
2. <head>
3. <?php
4. \$title = "Hello, PHP!";
5. ?>
6. <title><?php echo \$title;?></title>
7. </head>
8. <body>
9. <h1><?php echo \$title;?></h1>
10. </body>
11. </html>

1. PHP 문법 검사
2. PHP 번역
3. 웹 서버에 전달



# PHP

PHP

HTML

- 

HTML

PHP

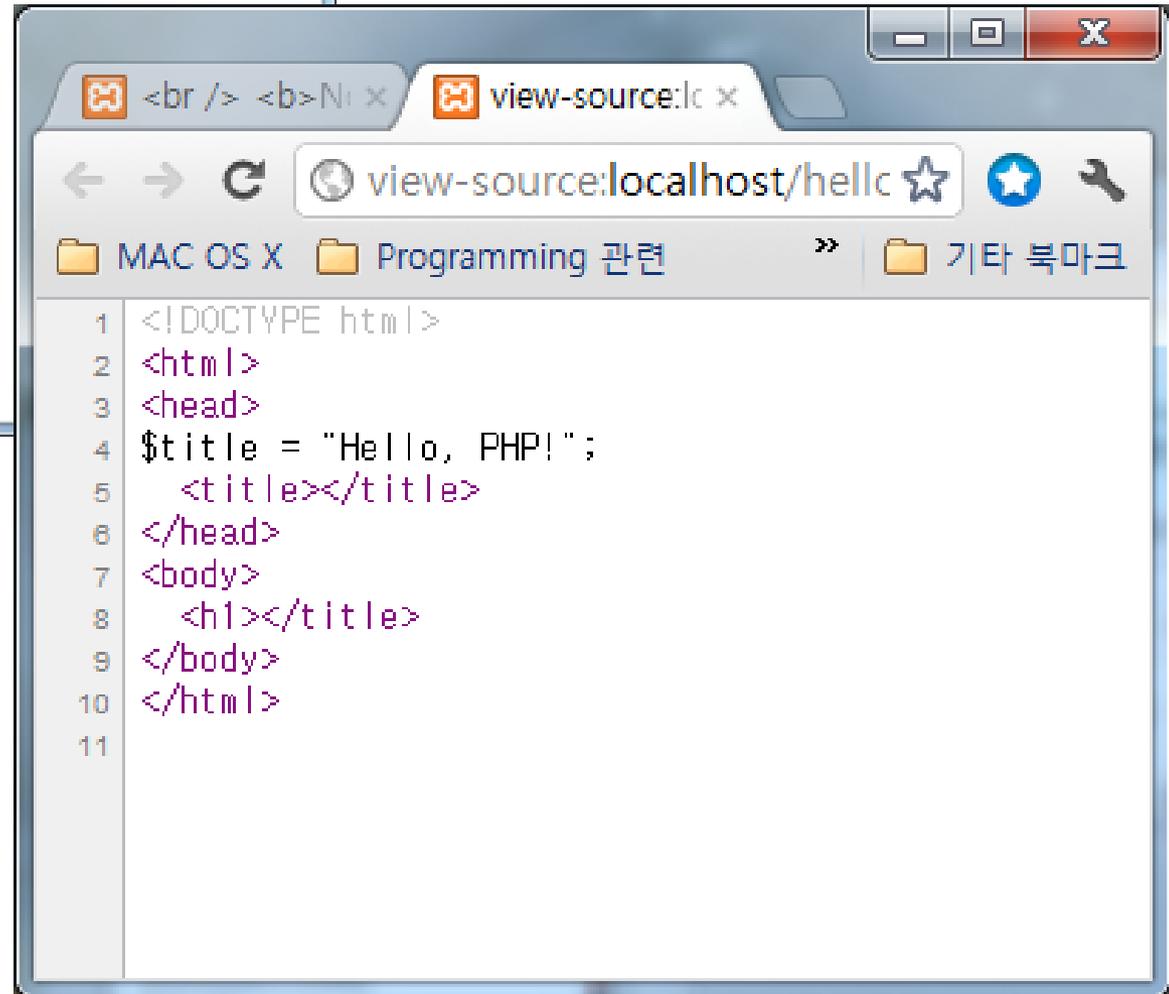
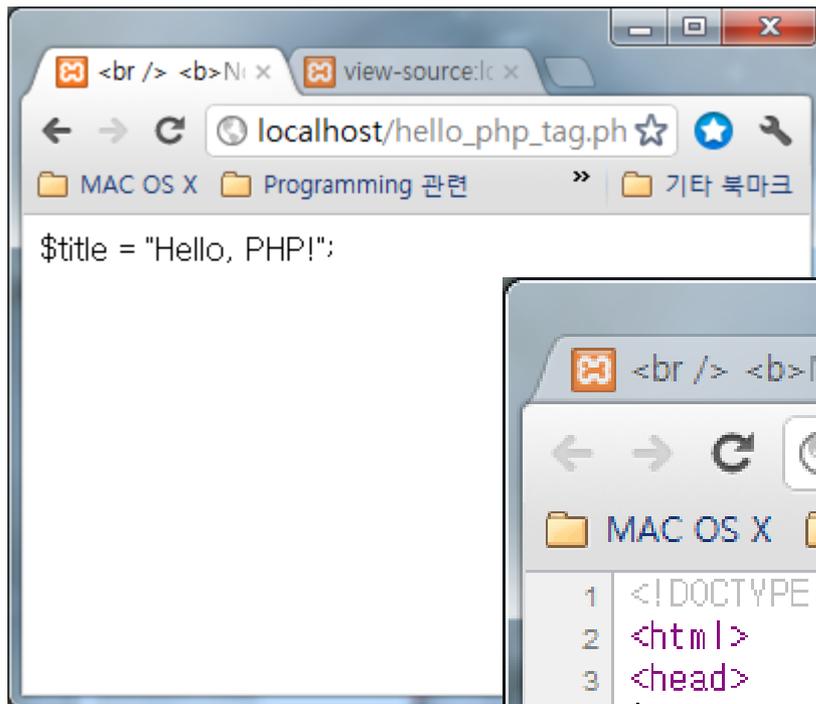
- 

3-5

. (3, 5 )

- 

\$title="Hello, PHP";



# PHP

PHP HTML

(p.66~)

<code>&lt;?php</code>	<code>?&gt;</code>	
<code>&lt;script language="php"&gt;</code>	<code>&lt;/script&gt;</code>	HTML
<code>&lt;%</code>	<code>%&gt;</code>	ASP -

# PHP

-

- PHP가 .
- ( ; )
- .
- PHP가 .
- 가 /
- .
- : /\* ... \*/
- : //

-

# PHP

-

: sep\_cmnt.php

```
1 <?php
2 /* -----
3 우리의 첫번째 예제 파일입니다.
4 ----- */
5 ?>
6 <!DOCTYPE html>
7 <html>
8 <head>
9 <?php
10 $title = "Hello, PHP!"; // $ 표시는 변수명 앞에 붙습니다.
11 ?>
12 <title><?php echo $title;?></title>
13 </head>
14 <body>
15 <h1><?php echo $title;?></title>
16 </body>
17 </html>
```

-

## : error.php

```
1 <?php
2 /* -----
3 에러를 보기 위한 예제 파일입니다.
4 ----- */
5 ?>
6 <!DOCTYPE html>
7 <html>
8 <head>
9 <?php
10 $title = "Hello, PHP!"
11 $subtitle = "Hallym University.";
12 ?>
13 <title><?php echo $title;?></title>
14 </head>
15 <body>
16 <h1><?php echo $title;?></h1>
17 </body>
18 </html>
```



# PHP

-

(P.78)

(identifier)

•

•

• 가

•

?

•

가

•

가

가

-

# PHP

-

1. ( ) .
2. , , 가 .
3. .
4. ( ) 가 .
5. .

PHP

PHP

가

-

■ ■ ■

■

-

PHP





# PHP

-

## (Integer)

- 
- 
- `$times = 1;`
- `$minus = -1;`
- `$octal = 0123;`
- `$hex = 0x12;`

## (floating point numbers)

- 
- 
- `$pi = 3.1415927`
- `$interest = 1.0e-3`

-

# PHP

(String)

•

•

•

•

•

•

•

•

•

가

(“) :  
(‘)

“<<<“

(PHP 5.3.0 )

,

-

# PHP

-



- `$str1 = " (\ " ) . " ;`
- `$str2 = ' ( \ ' ) . ' ;`
- `$times = 2;`
- `$str3 = "3 $times 6 . " ;`
- `$str4 = '3 $times 6 . ' ;`
- `$hereDoc = <<< EOD`  
.  
EOD;
- `$nowDoc = <<< 'EOT'`  
.  
'EOT';

-

PHP

-

(RESOURCE)



NULL

.



.



NULL

unset

NULL

.

-

# PHP

-

- 

- 

- \$ 가  
(Predefined)

- 

- 

- 

- `$_ENV['OS']`

- 

- 

- HTML

- 

- 

-

가

.

# PHP

-

- ( )
- (=)
- ```
$a = 123; //
```
- ```
$b = "string"; //
```
- ```
$c = true; //
```
- 가
- ```
echo $a; // $a 123
```
- ```
echo $b; // $b "string"
```
- ```
echo $c; // $c true
```

-

# PHP

-

- 

.

- 

true false

?

## PHP

- 

define()

.

- bool define (string name, mixed value [,bool case\_insensitive])

- 

PHP

\$

.

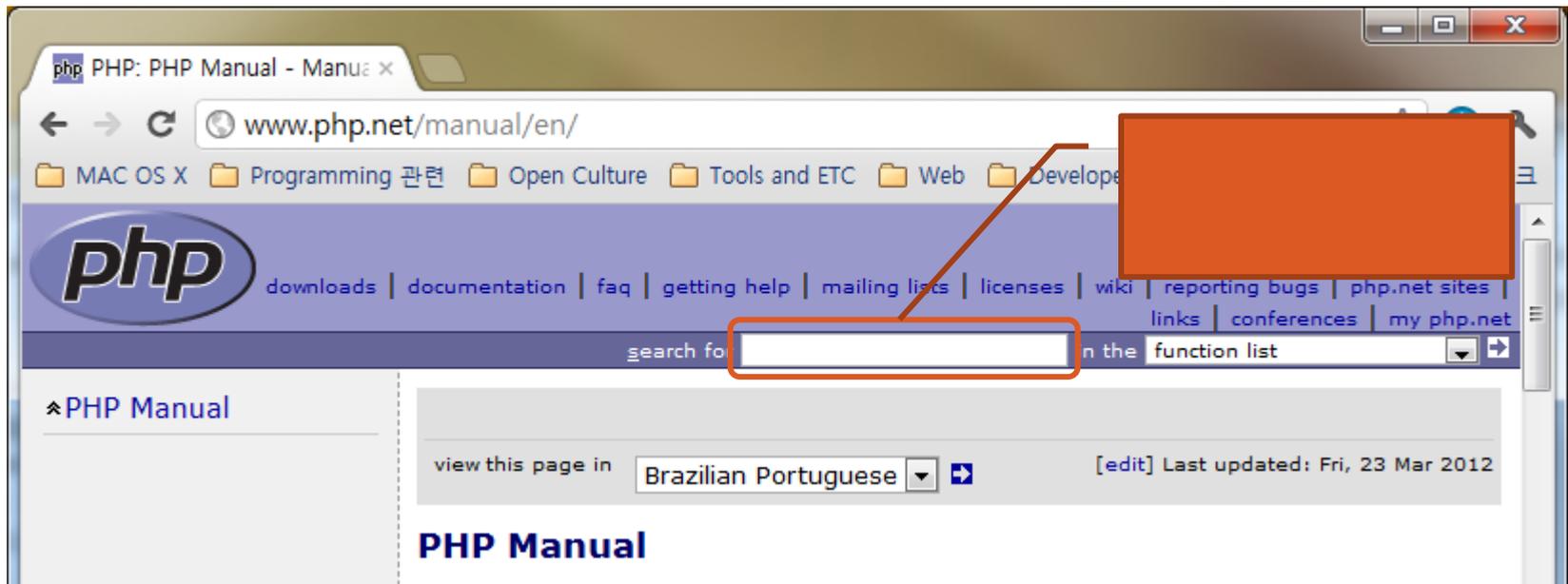
- constants()
- mixed constant (string name)

-

# PHP - PHP

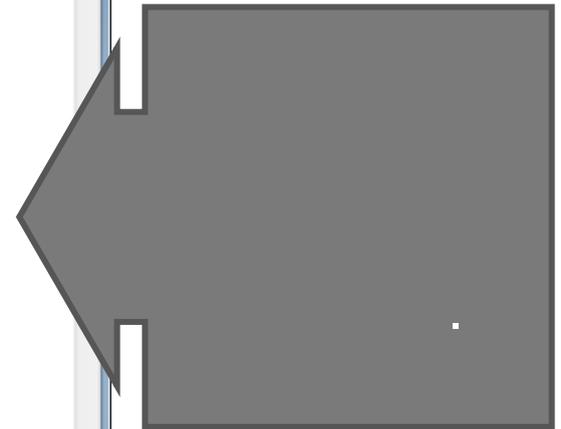
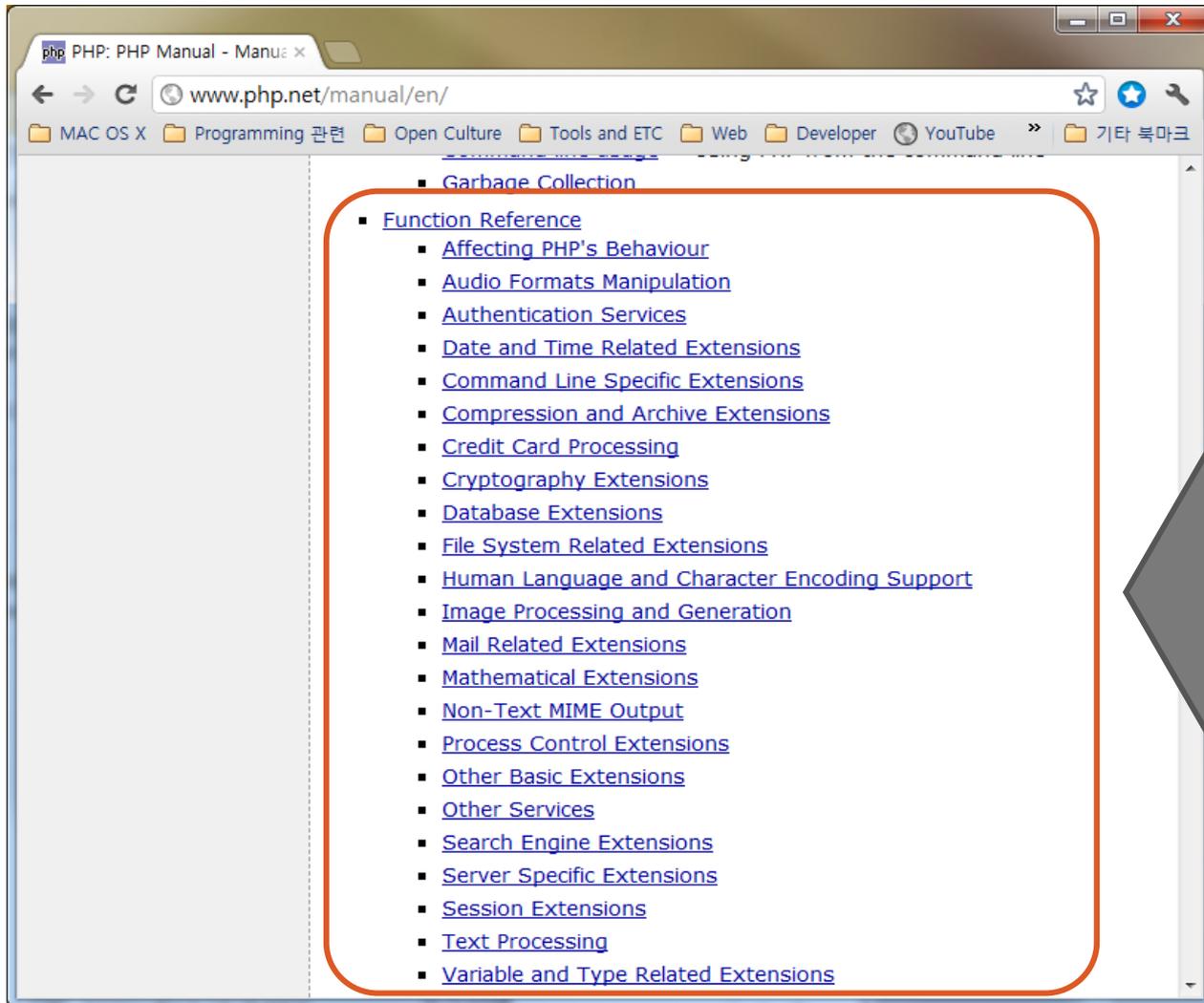
PHP

- 
- PHP Manual
- <http://www.php.net/manual/en/>



# PHP

# - PHP



# PHP

# - PHP

The image shows a screenshot of a web browser displaying the PHP manual page for the `define` function. The browser's address bar shows the URL `http://php.net/manual/en/function.define.php`. The page content includes the function name `define`, its version compatibility (PHP 4, PHP 5), and a description: "define — Defines a named constant". The function signature is shown as `bool define ( string $name , mixed $value [, bool $case_insensitive = false ] )`. The description states: "Defines a named constant at runtime.".

Annotations on the screenshot include:

- A grey box labeled "Category" with a downward-pointing arrow pointing to the left sidebar.
- An orange box around the left sidebar, which contains a list of categories: "Other Basic Extensions", "Misc.", and "Misc. Functions".
- An orange box around the function name `define` and its description.
- A grey box with a leftward-pointing arrow pointing to the function name `define`.
- An orange box around the function signature code block.
- A grey box with an upward-pointing arrow pointing to the function signature code block.

# PHP

# - PHP

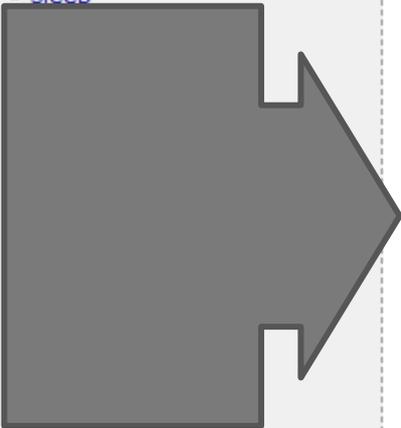
```
bool define ( string $name , mixed $value [, bool $case_insensitive = false ] )
```

- 가
- [] 가 가
- =
- ,
- 가

# PHP

# - PHP

- `exit`
- `get_browser`
- `__halt_compiler`
- `highlight_file`
- `highlight_string`
- `ignore_user_abort`
- `pack`
- `php_check_syntax`
- `php_strip_whitespace`
- `show_source`
- `sleep`



## Parameters

[Report a bug](#)

### *name*

The name of the constant.

### *value*

The value of the constant; only scalar and [null](#) values are allowed. Scalar values are [integer](#), [float](#), [string](#) or [boolean](#) values. It is possible to define [resource](#) constants, however it is not recommended and may cause unpredictable behavior.

### *case\_insensitive*

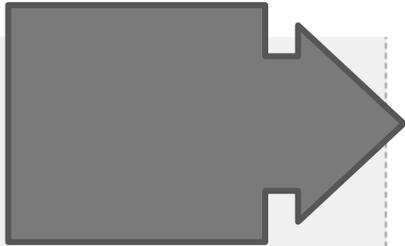
If set to `TRUE`, the constant will be defined case-insensitive. The default behavior is case-sensitive; i.e. **CONSTANT** and **Constant** represent different values.

#### **Note:**

Case-insensitive constants are stored as lower-case.

# PHP

# - PHP



## Return Values

[Report a bug](#)

Returns TRUE on success or FALSE on failure.

## Examples

[Report a bug](#)

### Example #1 Defining Constants

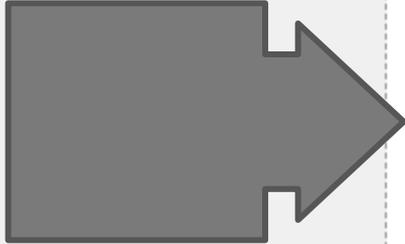
```
<?php
define("CONSTANT", "Hello world.");
echo CONSTANT; // outputs "Hello world."
echo Constant; // outputs "Constant" and issues a notice.

define("GREETING", "Hello you.", true);
echo GREETING; // outputs "Hello you."
echo Greeting; // outputs "Hello you."

?>
```

# PHP

# - PHP



## See Also

[Report a bug](#)

- [defined\(\)](#) - Checks whether a given named constant exists
- [constant\(\)](#) - Returns the value of a constant
- The section on [Constants](#)



<constant

defined>

[edit] Last updated: Fri, 23 Mar 2012

User Contributed Notes **define**

+ add a note

**krisraig at php dot net** [23-Mar-2012 09:47](#)

Some people like to have an ambiguous, engine-agnostic database include specified by assigning a single config variable to one of a series of constants. Unfortunately, this can easily become needlessly clunky if these defines are handled in an included config.php file, since more than one hook will throw an ugly "already defined" error.

Here's a simple way to accomplish this architectural model without having to create a bunch of clumsy sanity checks that compromise scalability:

# PHP

-

.

- op1.php

			(\$a=5, \$b=3)	
	+		\$a + \$b	8
	-		\$a - \$b	2
	*		\$a * \$b	15
	/		\$a / \$b	?
	%		\$a % \$b	2
	-		-\$a	-5

-

# PHP

-

:

( op2.php )

		(\$a=5, \$b=3)	
==	( )	\$a == \$b	FALSE
===	( )	\$a === \$b	FALSE
<		\$a < \$b	FALSE
>		\$a > \$b	TRUE
<=		\$a <= \$b	FALSE
>=		\$a >= \$b	TRUE
!=		\$a != \$b	TRUE
<>		\$a <> \$b	TRUE

-

# PHP

-

(op3.php)

		(\$a=T, \$b=F)	
&& (and)	( )	\$a && \$b	FALSE
(or)	( )	\$a    \$b	TRUE
xor	( )	\$a xor \$b	TRUE
!	, ( )	!\$a	FALSE

- +=

- \$a += 2;

- // \$a = \$a + 2;

-

# PHP

-

- `String` : `.` (period, `concat`)
  - `String` : `.`
  - `"Hello, "` . `"World!"` è `Hello, World!`
- `String` : `( )?( ) : ( )`
- `Boolean`
  - `.`
  - `.`
  - `5 < 3 ? printf("TRUE") : printf("FALSE");`
- `String` : `@`
- `String` : `new, ->`

-

■

-

PHP

## (function)

- 
- 
- 

```
function ( ) {  
    return  
} //  
( )
```

```
<?php
//fn_ex.php
function mySum($x, $y) {
    $sum = $x + $y;
    return $sum;
}

$a = 3;
$b = 5;

echo "$a $b " . mySum($a, $b) . "<br>";
echo gettype(mySum($a, $b));
?>
```

The diagram illustrates the flow of data in the PHP code. Two variables, `$a` and `$b`, are defined with values 3 and 5 respectively. These values are passed as arguments to the `mySum` function. The function's parameters are `$x` and `$y`. Arrows point from the boxes containing `$a` and `$b` to the `$x` and `$y` parameters in the function definition, showing that the function receives the values 3 and 5.

# 가

- Passed by reference

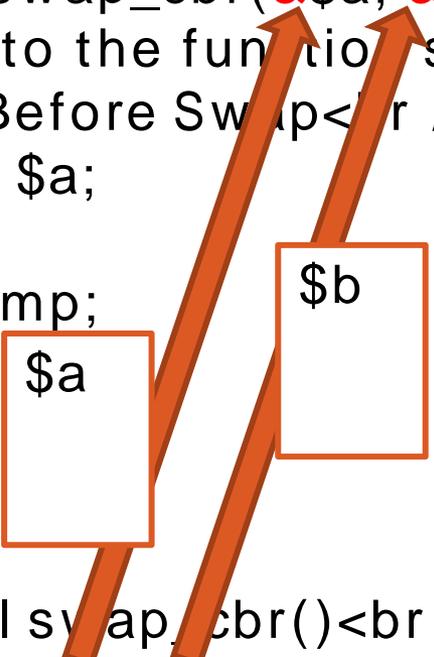
- 

“&”

.

- Example : cbr.php

```
function swap_cbr(&$a, &$b) {  
    echo "Into the function swap_cbr<br />";  
    printf("Before Swap<br /> \ $a = %s, \ $b = %s<br />", $a, $b);  
    $temp = $a;  
    $a = $b;  
    $b = $temp;  
}  
  
$a = 3;  
$b = 5;  
echo "Call swap_cbr()<br />";  
swap_cbr($a, $b);  
printf("After Swap<br /> \ $a = %s, \ $b = %s<br />", $a, $b);
```



•

•

•

= “ ”

.

• Example : dparam.php

-

```
function makeyogurt ($type = "acidophilus", $flavour) {  
    return "Making a bowl of $type $flavour. \n";  
}
```

```
@printf("%s", makeyogurt ("raspberry"));
```

```
function makeyogurt2 ($flavour, $type = "acidophilus"){  
    return "Making a bowl of $type $flavour. \n";  
}
```

```
echo "<br />";
```

```
echo makeyogurt2 ("raspberry", "aaaaa");
```

- global  
\$GLOBALS[“ ”]
- Example : globals.php

- static
- Example : static.php

```
1 <?php
2 $a = 123;
3
4 function test() {
5     ...
6     $a;
7     ...
8 }
9
10 $a = 456;
11
12 function test2() {
13     ...
14     $a;
15     ...
16 }
17 ?>
```

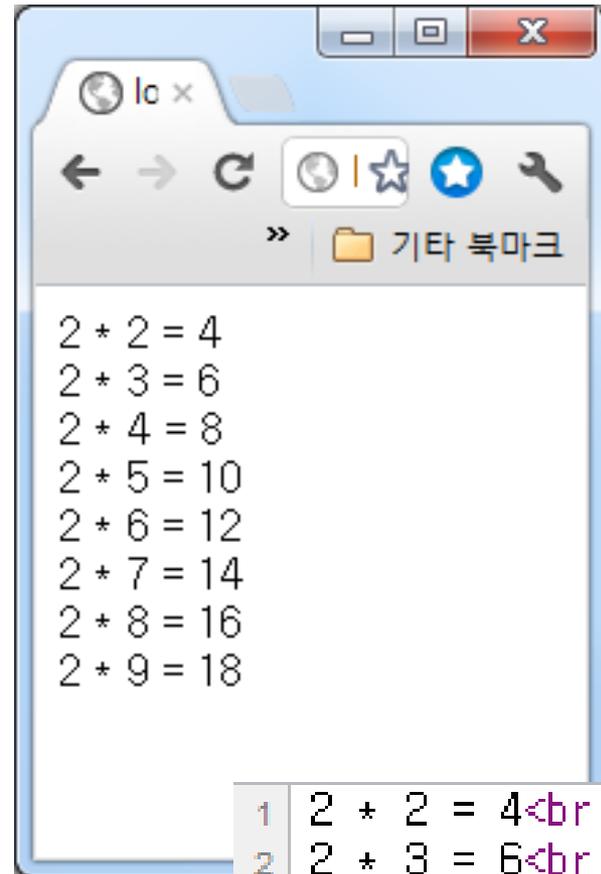
Local

Global



2 !

```
<?php
// 2dan.php
echo "2 * 2 = ", 2*2, "<br /> \n";
echo "2 * 3 = ", 2*3, "<br /> \n";
echo "2 * 4 = ", 2*4, "<br /> \n";
echo "2 * 5 = ", 2*5, "<br /> \n";
echo "2 * 6 = ", 2*6, "<br /> \n";
echo "2 * 7 = ", 2*7, "<br /> \n";
echo "2 * 8 = ", 2*8, "<br /> \n";
echo "2 * 9 = ", 2*9, "<br /> \n";
?>
```



1	2 * 2 = 4 
2	2 * 3 = 6 
3	2 * 4 = 8 
4	2 * 5 = 10 
5	2 * 6 = 12 
6	2 * 7 = 14 
7	2 * 8 = 16 
8	2 * 9 = 18 
9	

# (LOOP)

for :

- for

- for  
for

Loop

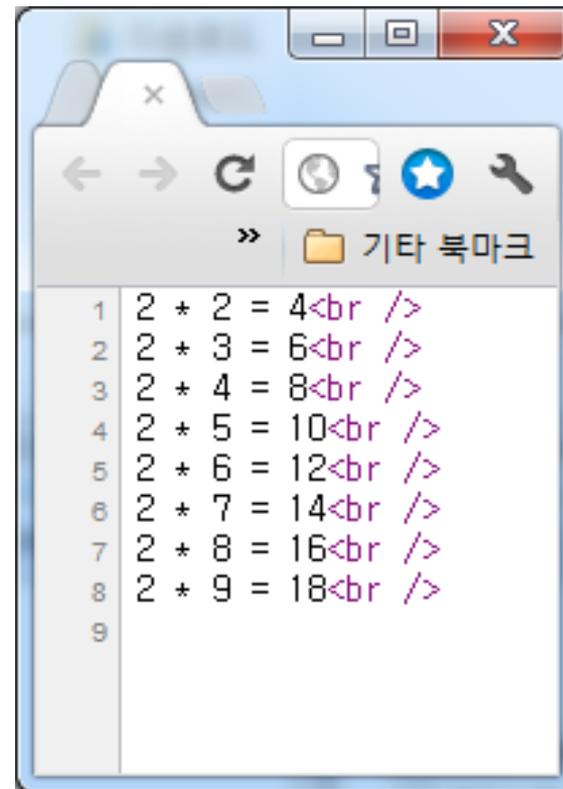
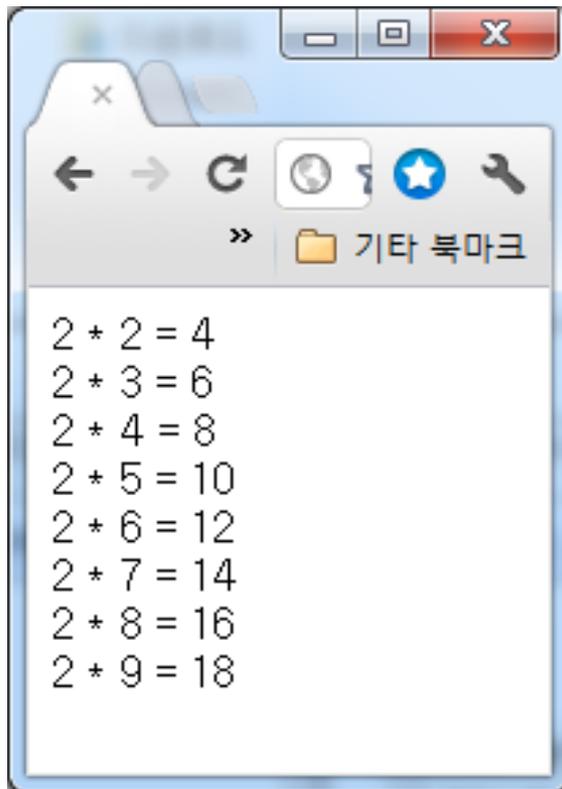
Loop

( )

```
for(초기식 ; 조건식 ; 증감식) {  
    Code Block  
}
```

for 2

```
<?php
// 2dan-for.php
for($i = 2; $i < 10; $i++) {
    echo "2 * $i = ", 2*$i, "<br /> \n";
}
?>
```



# for

```
<?php
```

```
// googoo.php
```

```
for($i = 2; $i < 10; $i++) {
```

```
    echo "${i}      =====" . "<br /> \n";
```

```
    for($j = 1; $j < 10; $j++) {
```

```
        echo "$i * $j = ", $i*$j, "<br /> \n";
```

```
    }
```

```
}
```

```
?>
```

```
2단 =====  
2 * 1 = 2  
2 * 2 = 4  
2 * 3 = 6  
2 * 4 = 8  
2 * 5 = 10  
2 * 6 = 12  
2 * 7 = 14  
2 * 8 = 16  
2 * 9 = 18  
3단 =====  
3 * 1 = 3  
3 * 2 = 6  
3 * 3 = 9
```

## - while

- while

- 

false가

.  
가  
.

- while

Loop

```
while(조건식) {
```

Code Block

```
}
```

# while

```
<?php
//googoo-while.php
$i=2;
while($i < 10) {
    echo "{$i}      =====" . "<br /> \n";
    $j = 2;
    while($j < 10) {
        echo "$i * $j = ", $i*$j, "<br /> \n";
        $j++;
    }
    $i++;
}
?>
```

## - if

- if

가

- if

가 가 . (else if )

```
if (조건) {
```

Code Block

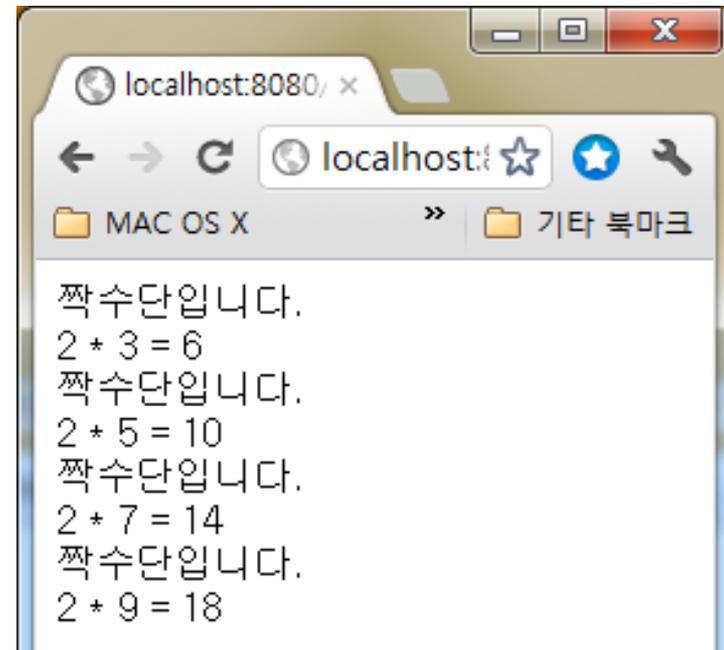
```
} else {
```

Code Block

```
}
```

2

```
<?php
// 2dan-for-if.php
for($i = 2; $i < 10; $i++) {
    if($i % 2 == 1) {
        echo "2 * $i = ", 2*$i, "<br /> \n";
    } else {
        echo "                ." . "<br /> \n";
    }
}
?>
```



2

```
<?php
```

```
// 2dan-for-if-2.php
```

```
for($i = 2; $i < 10; $i++) {
```

```
    if($i % 2 == 1) {
```

```
        echo "2 * $i = ", 2*$i, "<br /> \n";
```

```
    } else if($i % 3 == 0) {
```

```
        echo "          3          " . "2 * $i = " , 2*$i ,  
            "<br /> \n";
```

```
    } else {
```

```
        echo "          3          가  
            ." . "<br /> \n";
```

```
    }
```

```
}
```

```
?>
```

3

# switch

- switch

- if                      if

```
switch ( ) {  
    case 1:  
        ;  
        break;  
    ...  
    default:  
        ;  
        break;  
}
```

2

```
<?php
// 2dan-for-switch.php
for($i = 2; $i < 10; $i++) {
    $times = $i * 2;
    switch($times % 3) {
        case 0 :
            echo "[0] :" . "2 * $i = ", 2*$i, "<br /> \ n";
            break;
        case 1 :
            echo "[1] :" . "2 * $i = ", 2*$i, "<br /> \ n";
            break;
        default :
            echo "[2] :" . "2 * $i = ", 2*$i, "<br /> \ n";
            break;
    }
}
?>
```

## loop : do ~ while

- 

```
do {  
  
} while ( )
```

- 

while

- 

.

-

- Ex. other\_loop.php

```
<?php
$showMany = 5;
$myMineral = 50;
echo "SCV          .<br /> \ n";
$i = 1;
do {
    echo $i . "      SCV          .<br /> \ n";
    $myMineral -= 50;
    $i++;
} while ($myMineral >= 50 )
?>
```

# foreach

- 

```
foreach ( as ) {  
}  
foreach ( as 가 => ) {  
}
```

- 

( )

- 

( )  
가

```
<?php
$arr = array("one", "two", "three");
reset($arr);
foreach ($arr as $value) {
    echo "Value: $value<br /> \n";
}
$arr = array("one", "two", "three");
reset($arr);
foreach ($arr as $key => $value) {
    echo "Key: $key; Value: $value<br /> \n";
}
$arr = array("one"=>1, "two"=>2, "three"=>3);
reset($arr);
foreach ($arr as $key => $value) {
    echo "Key: $key; Value: $value<br /> \n";
}
?>
```

# HTML Form

.

-

# HTML FORM

# FORM

- HTML
  - `<FORM>...</FORM>`
  - 
  - Form

```
<FORM NAME="          "
      ACTION="          "
      METHOD="          "
      ENCTYPE="          " >
      FORM
</FORM>
```

# FORM

## Form

- NAME : HTML
- ACTION
  - 가
  - PHP
- METHOD
  - POST GET
    - POST : HTTP (Body)
    - GET : URL
- ENCTYPE
  - (encoding)
  - POST
  - application/x-www-form-urlencoded multipart/form-data 가 가

# FORM : GET VS. POST

GET : URL ( )

- ( ? ) “ ? = ”
  - ex: /index.php?name=brown
- &
  - ex: ?name=brown&homepage=http://ezphp.net

POST : REQUEST BODY

- 가 .
  - PHP POST
  - php.ini max\_post\_size

# FORM

# : <INPUT>

TYPE	설명
TEXT	일반 텍스트 입력 상자
PASSWORD	비밀번호 입력 상자
FILE	파일 선택 상자
CHECKBOX	체크 상자
RADIO	라디오 버튼
BUTTON	일반 버튼
SUBMIT	쿼리 전송 버튼
RESET	초기화 버튼
IMAGE	이미지 버튼
HIDDEN	숨겨진 필드

# FORM : <INPUT>

## Text Type

- Text ( 255 ).
- `<INPUT TYPE="text" NAME="email" VALUE="id @ domain" SIZE="40" MAXLENGTH="50">`
  - NAME : Form ( PHP File .)
  - VALUE :
  - MAXLENGTH :
  - SIZE :

## PASSWORD

- Text \* \* \*
- Example : inputPwd.html

FORM : <INPUT>

HIDDEN

- Browser
- Source

SUBMIT

- Form

RESET

- Form

# FORM : <INPUT>

## RADIO



```
<INPUT TYPE="RADIO" NAME="gender" VALUE="M" checked>
```

```
<INPUT TYPE="RADIO" NAME="gender" VALUE="F">
```

- checked :



NAME

Group

VALUE

- Example : inputRadio.html

# FORM : <INPUT>

## CHECKBOX

- - `<INPUT TYPE="CHECKBOX" NAME="check1" VALUE="win98" checked> win98`
  - `<INPUT TYPE="CHECKBOX" NAME="check2" VALUE="win2k"> win2k`
- NAME

- Checkbox 가 ?
- Example : check-from.php, check.php

# FORM : <TEXTAREA>

## TEXTAREA

- Text .  
<TEXTAREA NAME="comment" ROWS="4"  
COLS="30" > </TEXTAREA>
- ROWS : Text
- COLS : Text
- Example : inputTextArea.html

# FORM : <SELECT>

## SELECT

- 
- `<option>`
- `value`  

```
<select name="age">  
  <option value="10">10 - 20 </option>  
  <option value="20" selected>21 - 30  
  </option>  
</select>
```
- SELECTED :
- Example : `inputSelect.html`

“ ”

- PHP
- PHP

가

- 
- 

```
<?php  
    $a[0]="abc";  
    $a[1] ="def";  
    $b["foo"]=13;  
?>
```

- “ [ ] ”

가

•

가

가

“

”

•

[0],[1]

•

가

-

- `$array[0] = "Professional";`
- `$array[arr] = "Preprocessor";`
- `$array = array("Professional", "Hypertext", "Preprocessor");`
- `$array = array("first" => "Professional");`

- (Index : )
  - : \$fruit = array( " ", " ", " ", " " );
  - : \$fruit[0];
- (Key : )
  - : \$phone = array( "home" => "123-4567", "office" => "765-4321" );
  - : \$phone[ "home" ];
- Example : arrex.php

- array array ( [mixed ...])
- bool print\_r ( mixed expression [, bool return] )
  - Example : print\_r.php

<http://www.php.net/manual/en/ref.array.php>

:

- `sort` :
  - `bool sort ( array &array [, int sort_flags] )`
  - `sort_flags` PHP4 가
    - `SORT_REGULAR` : ( .)
    - `SORT_NUMERIC` :
    - `SORT_STRING` :
  - Index .
- `asort` :
  - `bool asort ( array &array [, int sort_flags] )`
  - Key 가 key .( )

- ksort : Key .
  - bool ksort ( array &array [, int sort\_flags] )
  -

- Ex. sort.php

- 
- 

가

?

```
<?php
$arr = array("orange", "apple", "lemon");
$arr2 = array("yellow"=>"lemon", "red"=>"apple",
             "orange"=>"orange");
print_r($arr);
print_r(sort($arr));
print_r($arr2);
print_r(asort($arr2));
print_r($arr2);
print_r(ksort($arr2));
?>
```

- shuffle :
  - bool shuffle ( array &array )
  - PHP 4.2.0 srand() 4.2.0  
mt\_srand()
- array\_reverse :
  - array array\_reverse ( array array [, bool preserve\_keys] )
    - preserve\_key가 TRUE
      - 0, 1, 2 가 array\_reverse( , TRUE)  
2, 1, 0
- array\_flip :
  - array array\_flip ( array trans )
  - 가

- count :
  - int count ( mixed var [, int mode] )
  - [http://www.php.net/manual/pt\\_BR/function.count.php](http://www.php.net/manual/pt_BR/function.count.php)
- array\_keys :
  - array array\_keys ( array input [, mixed search\_value] )
  - [http://www.php.net/manual/pt\\_BR/function.array-keys.php](http://www.php.net/manual/pt_BR/function.array-keys.php)
- array\_values :
  - array array\_values ( array input )
  - [http://www.php.net/manual/pt\\_BR/function.array-values.php](http://www.php.net/manual/pt_BR/function.array-values.php)
- Ex. array\_info.php

- current : ( )가 가
  - [http://www.php.net/manual/pt\\_BR/function.current.php](http://www.php.net/manual/pt_BR/function.current.php)
- reset : ( )
  - [http://www.php.net/manual/pt\\_BR/function.reset.php](http://www.php.net/manual/pt_BR/function.reset.php)
- end : 가
  - [http://www.php.net/manual/pt\\_BR/function.end.php](http://www.php.net/manual/pt_BR/function.end.php)
- prev :
  - [http://www.php.net/manual/pt\\_BR/function.prev.php](http://www.php.net/manual/pt_BR/function.prev.php)
- next :
  - [http://www.php.net/manual/pt\\_BR/function.next.php](http://www.php.net/manual/pt_BR/function.next.php)
- Ex. array\_walking.php

,

( )

vs.

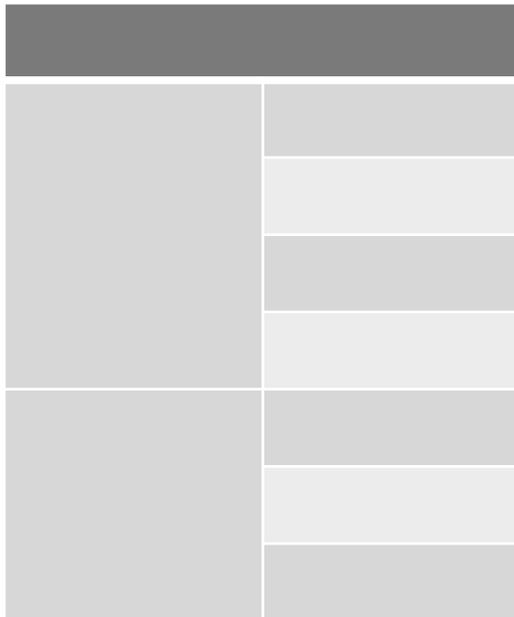


가

(property)

(method)

# (Class)



```
class Human {  
    public $Name;  
    public $Age;  
    public $Height;  
    public $Weight;  
    public function Eat ( $foods ) {  
        echo "          ~          ". $foods . "<BR>";  
    }  
    public function Walk ( $destination ) {  
        echo $destination . "          .<BR>";  
    }  
    public function Talk ( $words ) {  
        echo $words . "<BR>";  
    }  
}
```

- 
- (class )
- 
- 
- 
- 
- 
- 

-

가

가

# (Constructor)

- class
- 
- 
- PHP5 `__construct()`
- 

가

```
function __construct($hname) {  
    $this->Name = $hname;  
    $this->Age = 1;  
}
```

• **\$this** :

가

•

가 .

• **->** :

•

“\$”

## (destructor)

- `__destruct()`

가

```
function __destruct() {  
    $this->Talk( "                !");  
}
```

## (Instance)

- new

```
<?php
$charles = new Human(' ');
$younghee = new Human(' ', 1, 50, 3.5);
$charles = NULL; //
$younghee = NULL; //
?>
```

• “->”

•

public

```
<?php
$charles = new Human('    ', 5); //5
$charles->Talk($charles->Age); //
$charles->Eat("dinner"); // ! ~

// 가 .
$charles->Height = 110; // 110 cm
$charles->Weight = 22; // 22 Kg
?>
```

가

- extends

```
<?php
class Baby Extends Human {
    function      () { echo " ~"; }
    function      () { echo " ~ ~"; }
}
$      = new Baby(' ');
$      ->      ();
?>
```

-  
가 .

public	가
protected	가
private	가

-



# (COOKIE)

- 

(state)

.

- 

.

- “name = value”

.

-

# (COOKIE)

## PHP

```
bool setcookie ( , , , , , );
```

인자	필수	설명
쿠키 이름	예	쿠키의 이름
쿠키 값	아니오	쿠키의 값
만료 시간	아니오	언제 쿠키가 만료될지 시간을 설정
경로	아니오	이 쿠키를 사용할 수 있는 서버 경로
도메인	아니오	이 쿠키를 사용할 수 있는 도메인
보안	아니오	HTTPS 에서만 사용할지 여부를 설정

[ 6 - 1 ] setcookie

# (COOKIE)

## Cookie

- `$_COOKIE`
- Example : `cookie.php` vs. `non-cookie.php`

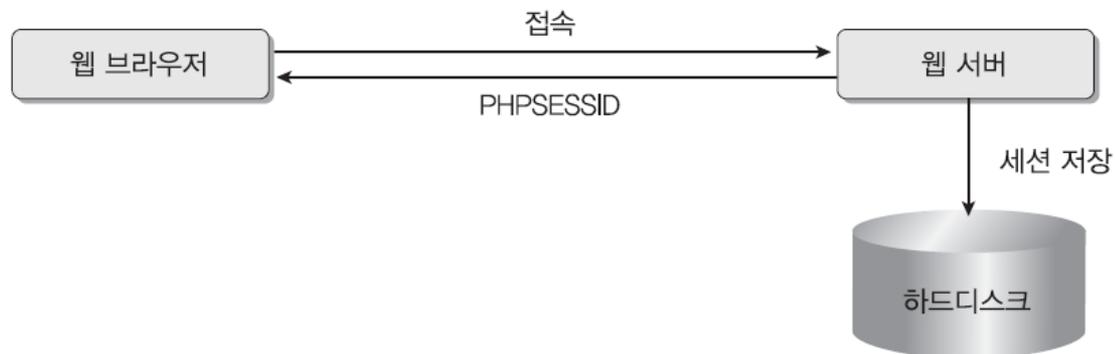
## Cookie

- `setcookie("Cookie", "Cookie")`
- `setcookie("Cookie", "Cookie", time()-3600)`
  - `cookie`

- `setcookie` `Cookie`  
`Client`

# (SESSION)

- 가
- 가
- 가



# (SESSION)

- 
- 
- 
- 
- 
- 

- 
- 
- 

24

ID

,

ID

가

가

.

.

,

.

-

# (SESSION)

- PHP

- session\_start()

- 가

- 

ID가

- PHPSESSID

```
1 <?php
2     session_start();
3 ?>
```

```
HTTP/1.1 200 OK
Date: Tue, 30 Oct 2007 08:02:10 GMT
Server: Apache
X-Powered-By: PHP/5.1.6
Set-Cookie: PHPSESSID=cb64ea3ac26d9ad9ba31390ef8763835; path=/
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0,
pre-check=0
Pragma: no-cache
Content-Length: 12
Content-Type: text/html
```

# (SESSION)

- PHP 4.1

- PHP
  - \$\_SESSION
  - [ 6-7]

```
1 <?php
2     session_start();
3     $_SESSION['message'] = 'Welcome to PHP world!<BR>';
4
5     ?>
6     <a href="read_session.php">                </a>
```

# (SESSION)

- `$_SESSION`
- `session_id()` : ID

```
//read_session.php
1  <?php
2      session_start();
3
4      echo $_SESSION['message'];
5      echo "<P>";
6      echo "PHPSESSID=" . session_id();
7  ?>
```

# MySQL

- 
- 
- DataBase Management System

- 

- 

- 

- 

가 .

# SQL

## SQL

- 

, ,

- 

(Data Definition Language)

- 

- 

(Data Manipulation Language)

- 

, , , .

- 

(Data Control Language)

- 

.

# - MySQL

## DBMS

- 

root

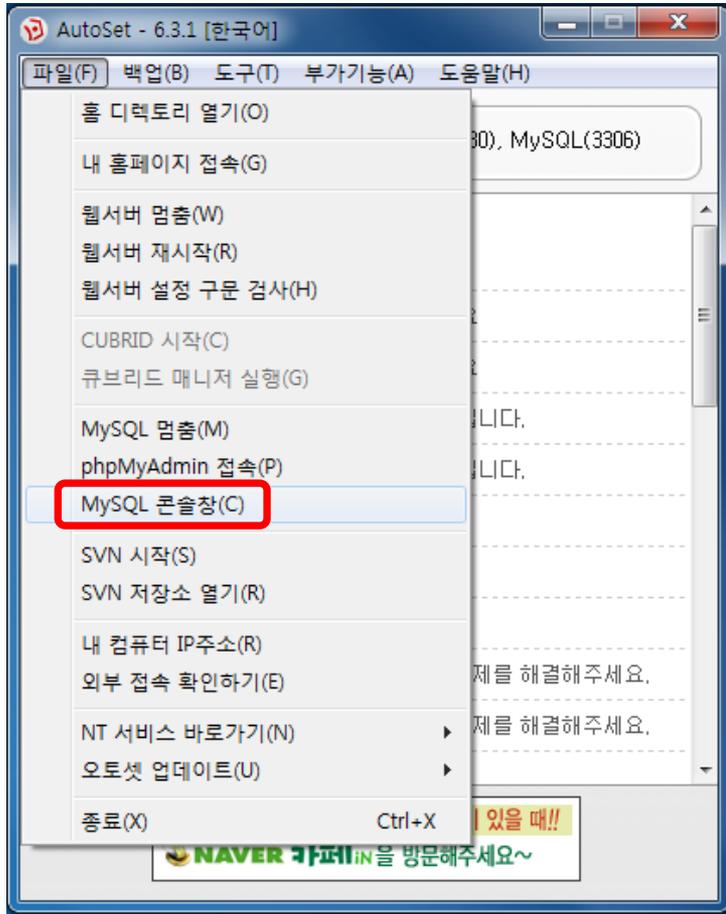
- MySQL

- 

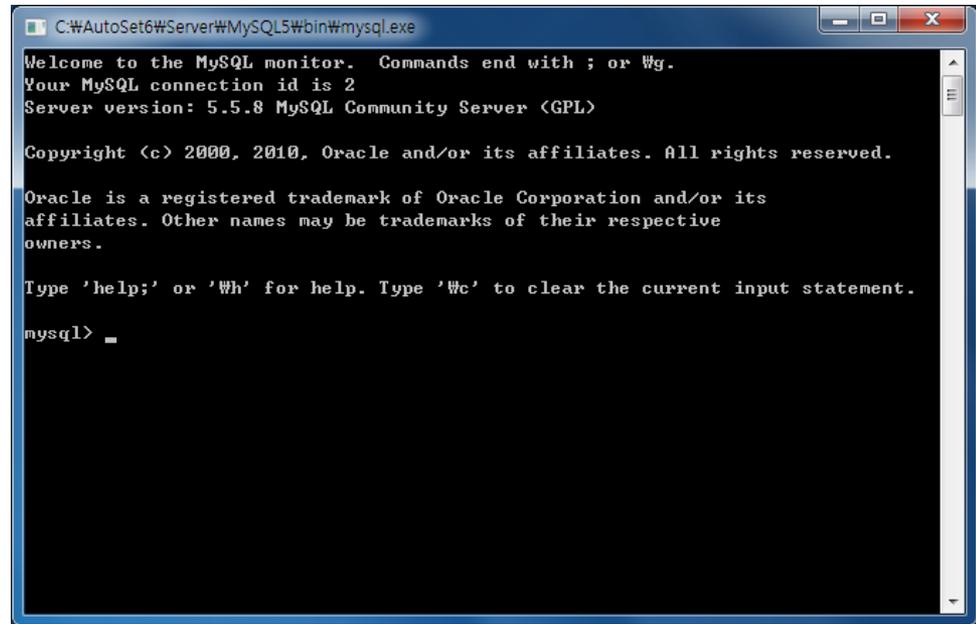
- GRANT [ ] ON [ ] TO [ ] [ ]

# - MySQL

root



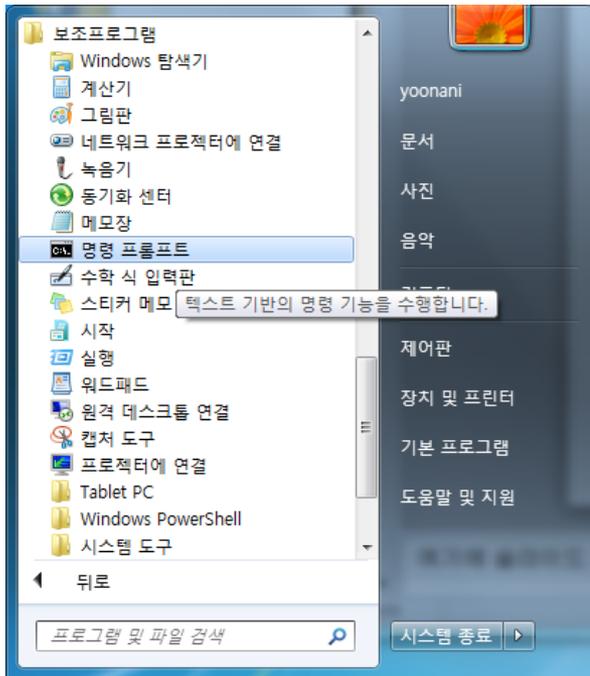
MySQL



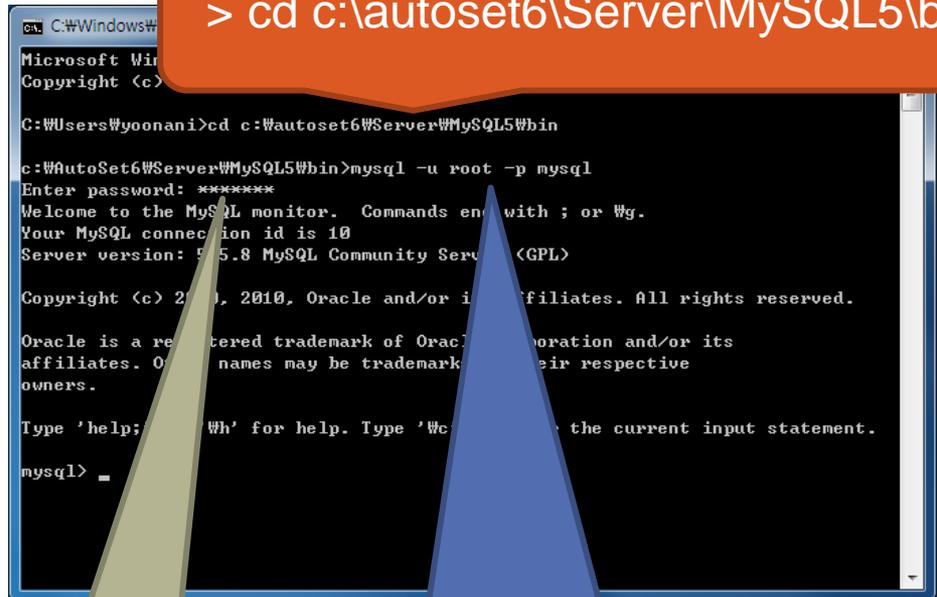
mysql> \q

# - MySQL

## MySQL



> cd c:\autaset6\Server\MySQL5\bin



autaset

> mysql -u root -p mysql

# - MySQL

- root autosec
- 
- : mysql> \q
- 
- mysqladmin -u root  
-p  
password test1234
- autosec

# DB :

## DBMS

## DB

- root
- DB

```
CREATE DATABASE [IF NOT EXISTS] db_name  
  [[DEFAULT] CHARACTER SET [=] charset_name  
  [DEFAULT] COLLATE [=] collation_name]
```

- Ex
  - CREATE DATABASE testDB CHARACTER SET utf8;
  - show databases;

```
C:\Windows\system32\cmd.exe - mysql -u root -p mysql

c:\AutoSet6\Server\MySQL5\bin>mysql -u root -p mysql
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 5.5.8 MySQL Community Server (GPL)

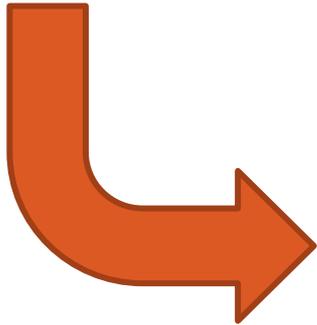
Copyright (c) 2000, 2010, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE testDB CHARACTER SET utf8;
Query OK, 1 row affected (0.00 sec)

mysql> _
```



mysql> show databases;

```
C:\Windows\system32\cmd.exe - mysql -u root -p mysql

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE testDB CHARACTER SET utf8;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+-----+
| Database          |
+-----+
| information_schema|
| mysql             |
| performance_schema|
| test              |
| testdb           |
+-----+
5 rows in set (0.01 sec)

mysql>
```

# DB :

## DB

- DB MySQL
- GRANT

권한	설명
ALL	GRANT OPTION을 제외한 모든 권한
ALTER	ALTER 명령 허용
CREATE	CREATE 명령 허용
DELETE	DELETE 명령 허용
DROP	DROP 명령 허용
INDEX	CREATE INDEX, DROP INDEX 명령 허용
INSERT	INSERT 명령 허용
SELECT	SELECT 명령 허용
UPDATE	UPDATE 명령 허용
USAGE	권한 없음

[ 7 - 10 ] GRANT





# TABLE : 가

## TABLE

- 가 MySQL .
  - ( ) TABLE .
  - .
  - .
- (Primary Key, PK)  
가 .

# TABLE :

# 가



데이터형	설명
BOOL, BOOLEAN	참 거짓, 0은 거짓이고 다른 값은 참
TINYINT(M)	매우 작은 정수, -128~127(또는 0~255)
SMALLINT(M)	작은 정수, -32768~32767(또는 0~65535)
MEDIUMINT(M)	중간 크기 정수, -8388608~8388607(또는 0~16777215)
INT(M), INTEGER(M)	일반 정수, -2147483648~2147483647(또는 0~4294967295)
BIGINT(M)	큰 정수, -9223372036854775808~9223372036854775807 (또는 0 ~ 18446744073709551615)
FLOAT(M,D)	작은 부동소수점수, M은 전체 자릿수, D는 소수점 뒷자리 -3.402823466E+38 ~ -1.175494351E-38 0, 1.175494351E-38 ~ 3.402823466E+38
DOUBLE(M,D)	일반 부동소수점수 -1.7976931348623157E+308 ~ -2.2250738585072014E-308, 0, 2.2250738585072014E-308 ~ 1.7976931348623157E+308

# TABLE : 가



데이터형	설명
CHAR(M)	0~255 길이의 문자열
VARCHAR(M)	MySQL 5.0.3 버전 이전에는 0~255 길이의 문자열 MySQL 5.0.3 버전 이후에는 0~65535 길이의 문자열
TINYTEXT	255 길이의 텍스트
TEXT(M)	최대 65535 길이의 텍스트
MEDIUMTEXT	최대 16,777,215 길이의 텍스트
LONGTEXT	최대 4GB 크기의 텍스트
TINYBLOB	최대 255 길이의 BLOB
BLOB(M)	최대 65535 길이의 BLOB
MEDIUMBLOB	최대 16,777,215 길이의 BLOB
LOBLOB	최대 4GB 크기의 BLOB
ENUM('값1', '값2', ...)	등록된 값 중에서 하나의 값을 선택하는 데이터형, 최대 65535개의 개별 값을 가질 수 있다.

# TABLE : 가



데이터형	설명
DATE	1000-01-01 ~ 9999-12-31 범위의 날짜
DATETIME	1000-01-01 00:00:00 ~ 9999-12-31 23:59:59 범위의 날짜와 시간
TIMESTAMP	1970-01-01 00:00:01 ~ 2038-01-09 03:14:07 범위의 날짜와 시간
TIME	-838:59:59 ~ 838:59:59 범위의 시간
YEAR	1901~2155 범위

[ 7-5]

# TABLE :

# 가

- NULL, NOT NULL
  - .
- DEFAULT
  - .
- AUTO\_INCREMENT
  - 1 가
  - .
- PRIMARY KEY
  - .

# TABLE : 가

## Table

- major(mid, mname)
- student(sid, sname, sage, sgender)
- subject(sbid, sbname)
- sclass(sid, sbid)
- 

## TABLE SQL

```
CREATE TABLE [IF NOT EXISTS] tbl_name (  
    1 [ ], 2 [ ], ... , n [ ],  
    [table ]  
);
```

# TABLE : 가

DB .

- > mysql -u testUser -p testdb

major ( )

```
CREATE TABLE major (  
    mid          int unsigned  
                NOT NULL AUTO_INCREMENT  
                PRIMARY KEY,  
    mname       varchar(20) NOT NULL  
);
```

# TABLE : 가

student( )

```
CREATE TABLE student (  
    sid      char(8)    NOT NULL PRIMARY KEY,  
    sname    varchar(20)    NOT NULL,  
    sage     tinyint unsigned    NOT NULL,  
    sgender  enum('M', 'F', 'E')    NOT NULL,  
    smajor   int unsigned    NOT NULL  
);
```

# TABLE : 가

subject( )

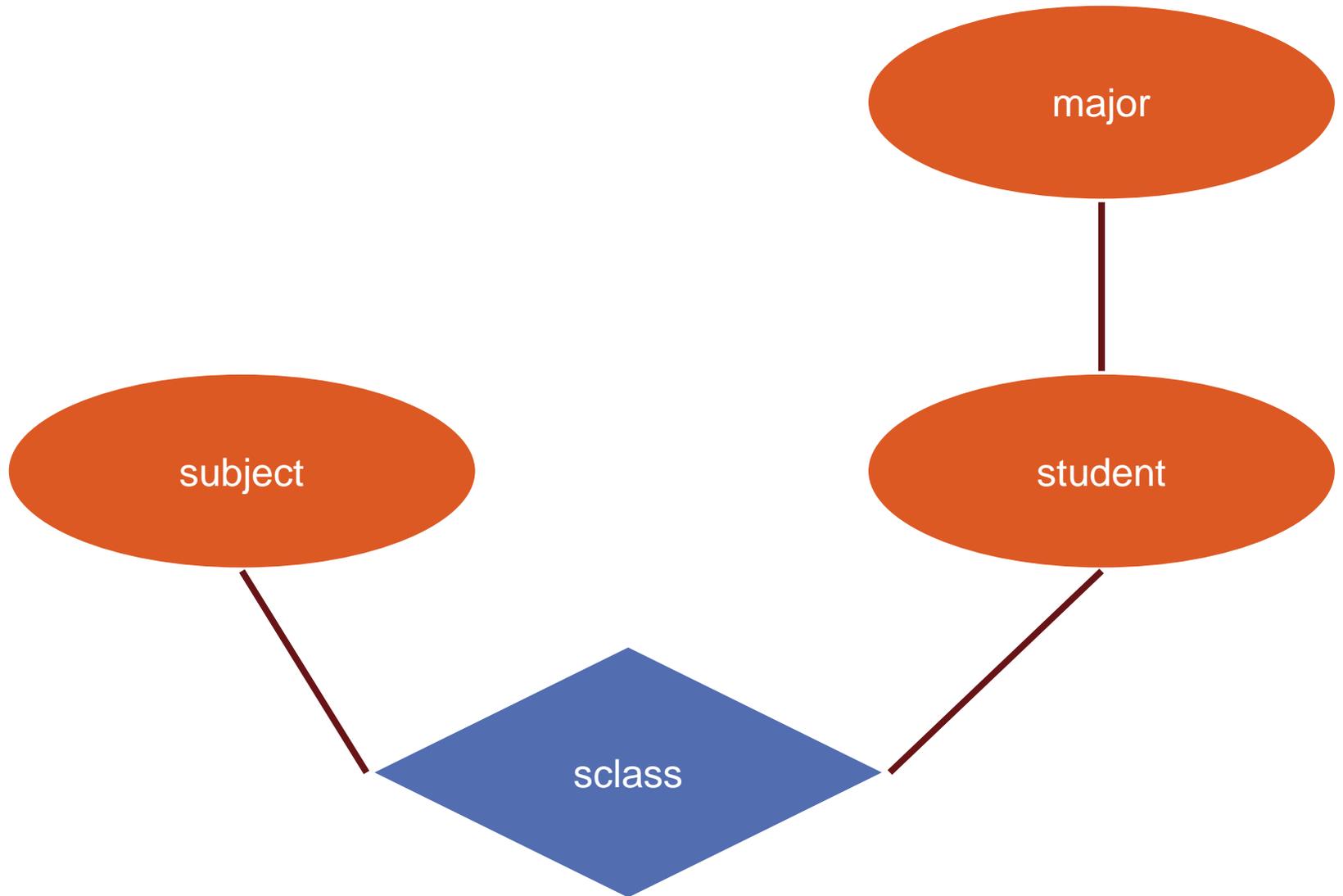
```
CREATE TABLE subject (  
    sbid      int unsigned NOT NULL  
              AUTO_INCREMENT  
              PRIMARY KEY,  
    sbname   varchar(40)  NOT NULL  
);
```

# TABLE : 가

sclass( )

```
CREATE TABLE sclass (  
    sid    char(8)          NOT NULL,  
    sbid   int unsigned    NOT NULL,  
                                PRIMARY KEY (sid, sbid)  
);
```

# E-R



# MySQL

MySQL

# INSERT : - PART I

## Table

<http://dev.mysql.com/doc/refman/5.1/en/insert.html>

```
INSERT INTO tbl_name [(col_name, ... )]  
VALUES (value, ...), ... , (value);
```

```
> INSERT INTO major (mid, mname) VALUES (1, ' ');  
> INSERT INTO major (mname) VALUES (' ');  
> INSERT INTO dept_tab VALUES  
+> (3, ' ')  
+> (4, ' ');
```

```
> SET CHARACTER SET euckr;
```

# UPDATE :

- (WHERE )
- DB
- WHERE
- AND OR

<http://dev.mysql.com/doc/refman/5.1/en/update.html>

```
UPDATE tbl_name SET  
col_name1={ expr1 | DEFAULT}  
[ , col_name2={ expr2 | DEFAULT} ] ...  
[ WHERE where_condition ]  
[ ORDER BY ... ]  
[ LIMIT row_count ]
```

# UPDATE :

- - student smajor가 2 → 3
- > UPDATE student SET smajor = 3 WHERE smajor = 2;

- - 3 → 가 .
- 3 → 가 .

> UPDATE student SET sname = ' ' .  
+> WHERE sname = ' ' AND smajor = 3

# DELETE :

(WHERE)

<http://dev.mysql.com/doc/refman/5.1/en/delete.html>

```
DELETE FROM tbl_name
[ WHERE where_condition ]
[ ORDER BY ... ]
[ LIMIT row_count ]
```

- 20121001
  - > DELETE FROM student WHERE sid = '20121001';
- WHERE 가
  - > DELETE FROM student\_tab;

# SELECT :

DB 가

(WHERE)

<http://dev.mysql.com/doc/refman/5.1/en/select.html>

```
SELECT select_expr [, select_expr ... ]  
  [FROM table_references  
  [WHERE where_condition  
  [GROUP BY {col_name | expr | position}  
    [ASC | DESC], ... [WITH ROLLUP]]  
  [HAVING where_condition  
  [ORDER BY {col_name | expr | position}  
    [ASC | DESC], ... ]  
  [LIMIT { [offset, ] row_count | row_count OFFSET offset } ]
```

# SELECT :

- 

INSERT INTO student VALUES

```
(NULL, '20121001', ' ', ' ', 51, 'M', 1),  
(NULL, '20121002', ' ', ' ', 25, 'M', 2),  
(NULL, '20121003', ' ', ' ', 5, 'M', 1),  
(NULL, '20121004', ' ', ' ', 24, 'M', 3),  
(NULL, '20121005', ' ', ' ', 28, 'M', 4),  
(NULL, '20121006', ' ', ' ', 41, 'M', 1),  
(NULL, '20121007', ' ', ' ', 10, 'M', 3),  
(NULL, '20121008', ' ', ' ', 11, 'F', 2);
```

# SELECT :

- 1  
SELECT \* FROM student WHERE smaj or = 1;
- 1  
SELECT sid, same FROM student WHERE smaj or = 1;
- - count( ) : ;  
SELECT smaj or, count(smaj or) as ' '  
FROM student GROUP BY smaj or;
- 가 1  
SELECT smaj or, count(smaj or) as ' '  
FROM student GROUP BY smaj or  
HAVING smaj or <> 1;

# SELECT :

- ( )

```
SELECT smajor, sid, sname  
FROM student  
ORDER BY smajor ASC, sid DESC;
```

- 가
- 

```
SELECT sid, sname FROM student  
ORDER BY sid LIMIT 0, 1;
```

# PHP

MySQL

# MYSQL

## mysql\_connect()

- <http://kr.php.net/manual/en/function.mysql-connect.php>
- resource mysql\_connect (
  - [ string \$server = *ini\_get("mysql.default\_host")*
  - [, string \$username = *ini\_get("mysql.default\_user")*
  - [, string \$password = *ini\_get("mysql.default\_password")*
  - [, bool \$new\_link = *false*
  - [, int \$client\_flags = *0* ] ] ] ] )
  - \$server : MySQL Server
  - \$username : MySQL
  - \$password :

## mysql\_close()

- <http://kr.php.net/manual/en/function.mysql-close.php>
- bool mysql\_close ([ resource \$link\_identifier ] )
  - \$link\_identifier :

## Ex. mysql\_connect.php

# mysql\_select\_db()

- <http://kr.php.net/manual/en/function.mysql-select-db.php>
- `bool mysql_select_db (`  
    `string $database_name`  
    `[, resource $link_identifier ] )`
  - `$database_name` : DB
  - `$link_identifier` :
- Ex. `mysql_select_db.php`

# mysql\_query()

- <http://kr.php.net/manual/en/function.mysql-query.php>
- resource mysql\_query ( string \$query [, resource \$link\_identifier ] )
  - \$query : SQL MySQL
  - \$link\_identifier :
- Ex.

```
$result = mysql_query('SELECT mid, mname FROM major');  
if (!$result) {  
    die('Could not query:' . mysql_error());  
}
```

## mysql\_affected\_rows

- <http://kr.php.net/manual/en/function.mysql-affected-rows.php>
- int mysql\_affected\_rows ( [ resource \$link\_identifier ] )
  - \$link\_identifier :
  - Insert, update, delete

## mysql\_num\_rows()

- <http://kr.php.net/manual/en/function.mysql-num-rows.php>
- int mysql\_num\_rows ( resource \$result )
  - \$result : mysql\_query()
  - Select

Ex. mysql\_counting.php

# 가

## mysql\_result

- <http://kr.php.net/manual/en/function.mysql-result.php>
- string mysql\_result ( resource \$result ,  
int \$row  
[ , mixed \$field = 0 ] )
  - \$result : mysql\_query
  - \$row : 가 (0 )
  - \$field : 가 (0 )
- Ex. mysql\_result.php
-

# 가

## mysql\_fetch\_array

- <http://kr.php.net/manual/en/function.mysql-fetch-array.php>
- array mysql\_fetch\_array ( resource \$result  
[, int \$result\_type = *MYSQL\_BOTH* ] )
  - \$result : mysql\_query
  - \$result\_type
    - *MYSQL\_BOTH* :  
가 .
    - *MYSQL\_NUM* :  
가 .
    - *MYSQL\_ASSOC* :  
가 .
  - 가 .
  - 가 .
- Ex. mysql\_fetch\_array.php





5

# TABLE

```
CREATE TABLE gbook (
```

```
    gb_id          int unsigned NOT NULL  
                  AUTO_INCREMENT PRIMARY KEY,  
    writer         varchar(50) NOT NULL,  
    regDate        datetime NOT NULL,  
    comments       text NOT NULL,  
    userpwd        char(41) NOT NULL
```

```
);
```

```
mysql> desc gbook;
```

```
+-----+-----+-----+-----+-----+-----+  
| Field      | Type                | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| gb_id      | int(10) unsigned    | NO   | PRI | NULL    | auto_increment |  
| writer     | varchar(50)         | NO   |     | NULL    |                |  
| regDate    | datetime            | NO   |     | NULL    |                |  
| comments   | text                | NO   |     | NULL    |                |  
| userpwd    | char(41)            | NO   |     | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.01 sec)
```

# (CONF.PHP)

DB

DB

```
<?php
$host = "localhost";
$user = "testUser";
$password = "test1234";
$db = "testdb";
$conn = mysql_connect($host, $user,
$password);
if(!mysql_select_db($db)) {
    die("DB Connectio failed : " .
mysql_error() );
}
?>
```

# FORM(WRITE\_FORM.HTML)

Form

POST

write\_proc.php



The screenshot shows a web browser window with the following content:

- Tab: [방명록 - 글쓰기]
- Address bar: localhost/gbook/write\_form.html
- Page Title: 방명록 : 글쓰기
- Form Fields:
  - 글쓴이 (Author):
  - 암호 (Password):
  - 내용 (Content):
- Submit Button: 보내기

# - (WRITE\_PROC.PHP)

가 DB

Form

- ID, , Form  

```
$getID = trim( $_POST["getID"] );  
if(strlen($getID) < 1) {  
    echo "<script type= \ "text/javascript \ "> \ n";  
    echo "    alert('                .'); \ n";  
    echo "    history.go(-1); \ n";  
    echo "</script> \ n";  
    exit;  
};
```

DB

list.php

## - LIST.PHP

```
$sql = "select count(*) from gbook";  
$result = mysql_query($sql);  
$total = mysql_result($result, 0, 0);
```

```
$page_size = 5;
```

가

```
if( !isset($_GET["start"]) ) {  
    $start = 0;  
} else {  
    $start = $_GET["start"];  
}
```

# - LIST.PHP

가

```
$sql = "SELECT gb_id, writer, comments FROM gbook  
ORDER BY gb_id DESC  
LIMIT " . $start . ", " . $page_size;
```

```
$result = mysql_query($sql);
```

```
$pageViews = mysql_num_rows($result);
```

```
if($pageViews == 0) {
```

```
    //
```

```
} else {
```

```
    while($rows = mysql_fetch_array($result, MYSQL_ASSOC) )
```

```
    {
```

```
        //
```

```
    }
```

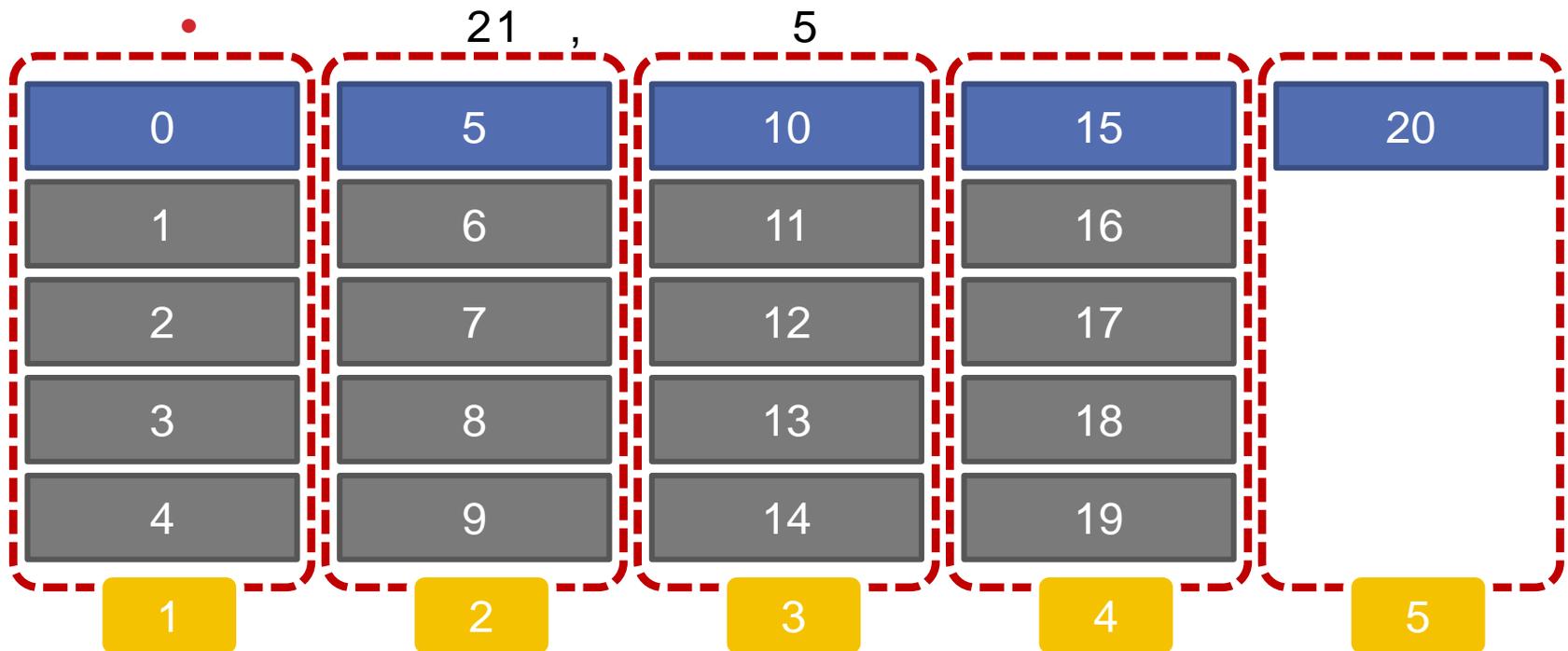
```
}
```

# - LIST.PHP

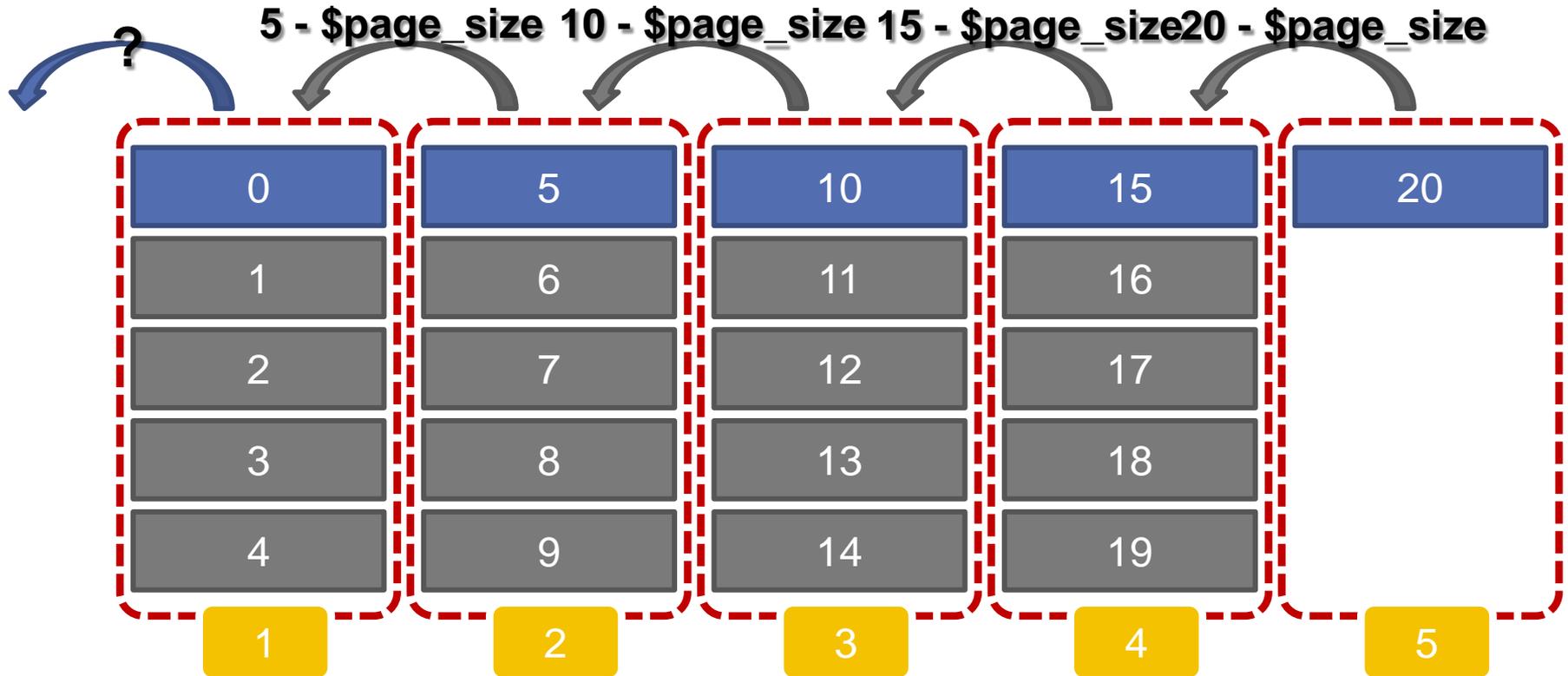
## Page

- \$start

index



# - LIST.PHP



## - LIST.PHP

```
<?php
```

```
    $prev_page = $start - $page_size;
```

```
    if ($prev_page >= 0) {
```

```
?>
```

```
[<A
```

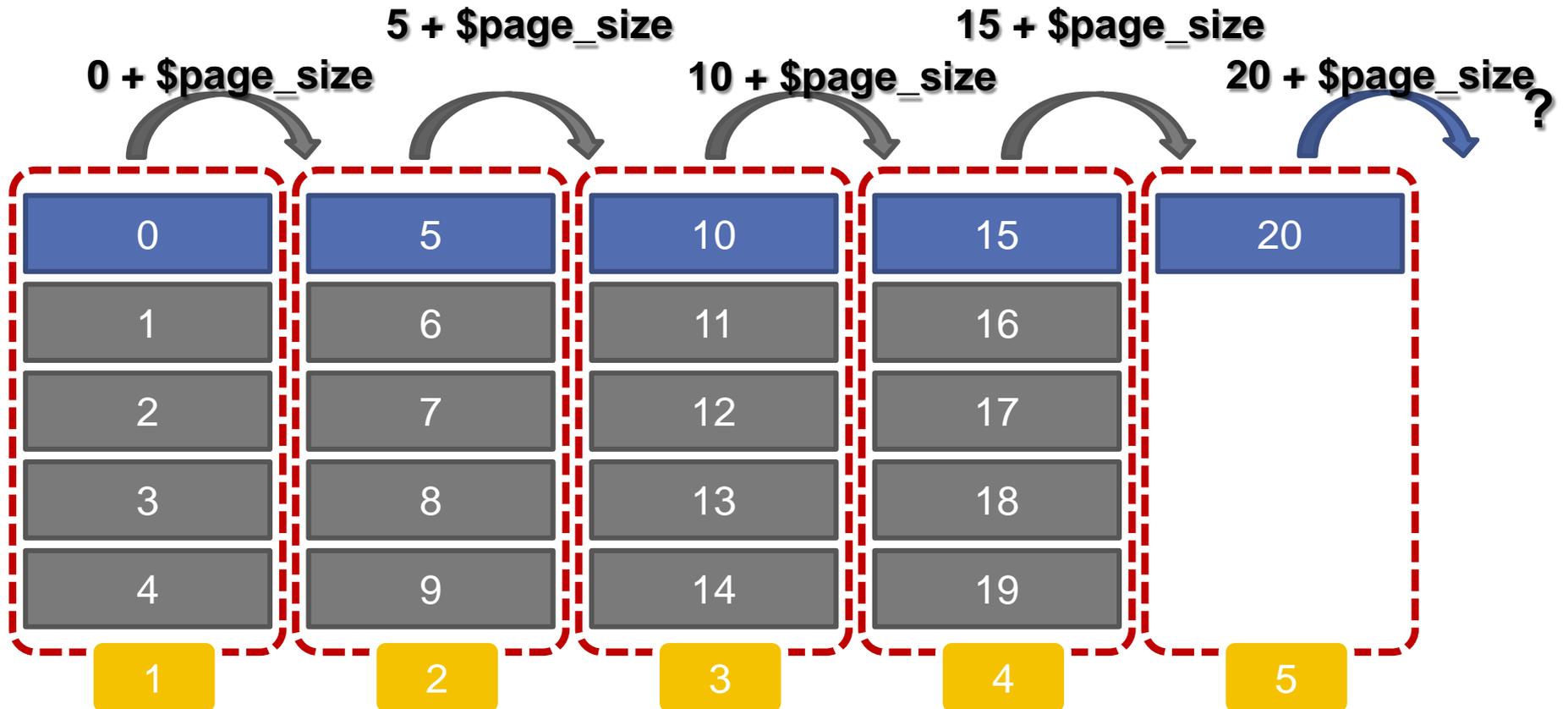
```
HREF="<?=$_SERVER["PHP_SELF"]."?start=".$prev_page?>">    Page</A>]
```

```
<?php
```

```
    }
```

```
?>
```

# - LIST.PHP



# - LIST.PHP

```
<?php
```

```
    $next_page = $start + $page_size;
```

```
    if ($next_page < $total) {
```

```
?>
```

```
[<A
```

```
HREF="<?=$_SERVER["PHP_SELF"]."?start=".$next_page?>">    Page</A>]
```

```
<?php
```

```
    }
```

```
?>
```





( )



5

# TABLE

CREATE TABLE gbook (

    gb\_id                  int unsigned  NOT NULL  
                          AUTO\_INCREMENT PRIMARY KEY,  
    writer                varchar(50)  NOT NULL,  
    regDate                datetime      NOT NULL,  
    comments              text           NOT NULL,  
    userpwd                char(41)     NOT NULL

);

```
mysql> desc gbook;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| gb_id | int(10) unsigned | NO | PRI | NULL | auto_increment |
| writer | varchar(50) | NO | | NULL | |
| regDate | datetime | NO | | NULL | |
| comments | text | NO | | NULL | |
| userpwd | char(41) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```



# ACTION.PHP

- `action.php?action=update&id= ID&start=`
- `action.php?action=delete&id= ID&start=`

## GET

- `$action = $_GET["action"];`
- `$id = $_GET["id"];`
- `$start = $_GET["start"];`

## Hidden `validate_user.php`

- `<input type="hidden" name="action" value="<?php echo $action;?>" />`
- `<input type="hidden" name="id" value="<?php echo $id;?>" />`
- `<input type="hidden" name="start" value="<?php echo $start;?>" />`

# VALIDATE\_USER.PHP

action.php

가

action

- `$action = $_POST["action"];`
- `$id = $_POST["id"];`
- `$start = $_POST["start"];`
- 가
  - `$sql = "SELECT userpwd FROM gbook WHERE gb_id = " . $id;`
  - `$result = mysql_query($sql);`
  - `$isHere = mysql_num_rows($result);`
  - `if($isHere) {`  
`$storedPwd = mysql_result($result, 0, 0);`

# VALIDATE\_USER.PHP

- - `$sql = "SELECT password('" . trim($_POST["getPWD"]) . "');";`
  - `$result = mysql_query($sql);`
  - `$inputPwd = mysql_result($result, 0, 0);`

- `if(strcmp($storedPwd, $inputPwd))`

- `strcmp` 0

```
switch($action) {  
    case 'update' :  
?>  
        //          JavaScript  
<?php  
            break;  
    case 'delete' :  
?>  
        //          JavaScript  
<?php  
            break;  
} -
```

```
$action = $_GET["action"];  
$id = $_GET["id"];  
$start = $_GET["start"];
```

```
if(isset($_GET["action"]) AND isset($_GET["id"]) AND  
isset($_GET["start"])) {
```

가

```
$sql = "SELECT gb_id, writer, comments FROM gbook WHERE  
gb_id=" . $id;  
$result = mysql_query($sql);  
$rows = mysql_fetch_array($result, MYSQL_ASSOC);
```

```
<input id="getID" name="getID" type="text" size="20"
maxlength="20" value="<?php echo $rows["writer"];?>" />
```

...

```
<textarea id="getComments" name="getComments"
rows="10" cols="40"><?php echo
$rows["comments"];?></textarea>
```

## hidden

```
<input type="hidden" name="id" value="<?php echo $id;?>" />
<input type="hidden" name="start" value="<?php echo $start;?>" />
```

## (Form Validation) - SQL - UPDATE

```
$sql = "UPDATE gbook SET  
writer="" . $getID . ",  
comments="" . $getComments . ",  
userPwd=password("" . $getPWD . ")  
WHERE gb_id = " . $_POST["id"];
```

가

```
echo "<script type=\"text/javascript\">\n";  
echo " location.href='list.php?start=" . $_POST["start"] . "';\n";  
echo "</script>\n";  
exit;
```

```
<script type="text/javascript">
var isDel = confirm("                ?");
if(!isDel) {
    location.href='list.php?start=' + '<?php echo $start;?>';
}
</script>
```

## SQL - DELETE

```
$sql = "DELETE FROM gbook WHERE gb_id = " . $id;
```

가

```
<script type="text/javascript">
    alert("                .");
    location.href='list.php?start=' + '<?php echo
$start;?>';
</script>
```

PHP

.

가 가

<http://openx3.tistory.com>

“ Web

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