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Department of Computer Science
School of Electrical Engineering, Electronics, and Computer Science
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PHP Motivation

Common Gateway Interface — CGI

The Common Gateway Interface (CGI) is a standard method for web servers to use external applications, a CGI program, to dynamically

ssignificant a Pirroject Exam a Help form, and sends it to a web server

- 2 The web server selects a CGI program to handle the request, conversiting of the program
- 3 The CGI program then processes the CGI request and the server passes the program's response back to the client

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PHP Motivation

Disadvantages of CGI/Perl

A distinction is made between static web pages and dynamic web pages created by an external program

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dynamic content to a web page

- can be alleviated to some extent by using here documents

- Use of apperturnal program requires oder com
 - starting a separate process every time an external program is requested
 - exchanging data between web server and external program

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If our main interest is the creation of dynamic web pages, then the scripting language we use

- should integrate well with HTML
- should not require a web server to execute an external program

Overview Features

PHP

PHP is (now) a recursive acronym for PHP: Hypertext Preprocessor

Ssignment Projected Exam He Originally designed as a tool for tracking visitors at Lerdorf's website

- Developed into full-featured, scripting language for server-hid web programming wooder.com
- Inherits a lot of the synlax and features from
- Easy-to-use interface to databases
- Probably the most widely used server-side web programming language
- Negatives: Inconsistent, muddled API; no scalar objects

The departmental web server uses PHP 5.6.25 (released August 2014) PHP 7 was released in December 2015 (PHP 6 was never released)

Overview Features

PHP processing

Server plug-ins exist for various web servers

avoids the need to execute an external program

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Static web pages can easily be turned into dynamic ones

PHP satisfies the criteria we had for a good web scripting language https://powcoder.com

Processing proceeds as follows:

- 1 The web server receives a client request
- The web sayed revenies that the thier power coder a HTML page containing the code power coder
- The server executes the PHP code, substitutes output into the HTML page, the resulting page is then send to the client

As in the case of Perl, the client never sees the PHP code, only the HTML web page that is produced

PHP: Applications

- Applications written using PHP
 - Project Collaboration Software

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http://drupal.org/home

- Magento eCommerce platform
 http://www.sento.com
- MediaWiki Wiki software
 http://www.mediawiki.org/wiki/MediaWiki
- Moodly notice. Ogy e Chat powcoder
- Sugar Customer Relationship Management (CRM) platform
 http://www.sugarcrm.com/crm/
- WordPress Blogging tool and CMS http://wordpress.org/

PHP: Websites

- Websites using PHP:
 - Delicious social bookmarking

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http://digg.com

- Facebook social networking http://www.sebook social networking
- Flickr photo sharing
 http://www.flickr.com
- http://www.drieks/eemnat powcoder
- SourceForge web-based source code repository http://sourceforge.net/
- Wikipedia collaboratively built encyclopedia http://www.wikipedia.org

Recommended texts

R. Nixon:

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Harold Cohen Library: 518.561.N73 or e-book (or lane tentions of the work of the company of the

• M. Achour, F. Betz, A. Dovgal, N. Lopes, H. Magrusson, W. Eichten, at Pagoy, V. Code, et al.: PHP Manual.

PHP Documentation Group, 2018.

http://www.php.net/manual/en/index.php

PHP: Hello World!

```
1 <html>
2 <head><title>Hello World</title></head>
3 <body>
4 SporgfinnentipProject Exam Help
6 print ("<b>Hello World!</b></ri>
7 ?>
8 </body>
PHP code is enclosed between <?pnp and ?</p>
```

- File must be stored in a directory accessible by the web server, for example \$HOME public html, and be readable by the web server
- File name haust have the extension thinge go Men to work to phip



PHP: Hello World!

Since version 4.3.0, PHP also has a command line interface

```
#!/usr/bin/php
ssignment Project Exam Help
   A "Hello World" PHP script. */
print ("Hello,,World!\n");
 https://powcoder.com
```

- PHP code still needs to be enclosed between <?php and ?>
- Code must be stored in an executable file
 File name deed not need to have any particular formander
- → PHP can be used as scripting language outside a web programming context

Output:

Hello World!

PHP: Hello World!

```
<html>
<head><title>Hello World</title></head>
<body>Our first PHP script

</pre
```

- Can alateteped Agripowcoder.com

 php filename
- $\begin{array}{c} \bullet \text{ File does not need to exectuable, only readable for the user} \\ \bullet \text{Output: } Add \begin{tabular}{l} WeChat powcoder \\ \hline \end{array}$

```
<html>
<head><title>Hello World</title></head>
<body>Our first PHP script
<b>Hello World!</b>
</body></html>
```

PHP scripts

 PHP scripts are typically embedded into HTML documents and are enclosed between <?php and ?> tags

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- Statements end in a semi-colon
- Whitespace before and in between statements is irrelevant (This deet a bean its include)
- One-line comments start with // or # and run to the end of the line or ?>
- Multi-line comments are enclosed in /* and */

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Types

PHP has eight primitive types

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<u>int</u> – integers

• <u>object</u> – objects

- float floating-point numbers
- stribttps:/powcoder.com
 - NULL
- Integers, flating-point run ber, and strings two differ ignificantly from the corresponding Perl scalars, including the pecularities of single-quoted versus double-quoted strings
- In contrast to Perl, PHP does distinguish between different types including between the four scalar types

Variables

- All PHP variable names start with \$ followed by a PHP identifier
- A PHP identifier consists of letters, digits, and underscores, A Standard Project Exam Help

 PHP identifiers are case sensitive
 - In PHP, a variable does not have to be declared before it can be used
 - A variable also does no have to be initialised before it can be used, although initialisation is a good idea
 - Uninitialized variables have a default value of their type depending on the contextibution the case useful powcoder

Type	Default	Type	Default
<u>bool</u>	FALSE	string	empty string
<u>int/float</u>	0	array	empty array

If there is no context, then the default value is NULL

Assignments

• Just like Java and Perl, PHP uses the equality sign = for assignments

```
Assignment expression is the value assigned

**The value of an assignment expression is the value assigned**

**The value of an assignment expression is the value assigned**
```

```
*b = ($a = 0) + 1;
// $a hatples // powcoder.com
```

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Binary assignments

PHP also supports the standard binary assignment operators:

Constants

- bool define(string, expr [, case_insensitive])
- 4 September 1 defines a constant that is globally accessible within a script September 1 depth of the script of th

The PHP identifier is the name of the constant

- exprais an expression that should evaluate to a scalar value
- case 1119 Sive is point Contempt on Thing whether the name of the constant is case-insensitive (default is FALSE)
- returns TRUE on success or EALSE on failure

define ("SPEED_OF_LIGHT", 299792458, true);

Constants

• To use a constant we simply use its name

```
A stance = speed_of_light * $time;
```

Variables

• Caveat: PHP does not resolve constants within double-quoted strings not resolve COCCT.COM

```
print "1 - Value of PI: PI\n";
print "2 - Value of PI: ".PI."\n";
```

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COMP284 Scripting Languages

Values, Variables and Types

PHP provides several functions that explore the type of an expression:

```
returns the type of expr as string
 string gettype(expr)
 void var_dump(expr)
                         displays structured information about expr
                         that includes its type and value
      print "Type of 23.0: ".gettype(23.0)."\n";
      print "Type of \"23\": ".gettype("23")."\n";
?>
Type
     of 23:
           integer
     of 23.0: double
Type of "23": string
23 is an integer
```

Type juggling and Type casting

 PHP automatically converts a value to the appropriate type as required by the operation applied to the value (type juggling)

PHP also supports explicit type casting via (type)

```
(int) A12"dd WeClfat (b0) Wcoder TRUE
(int) ("1.23e2" + 0) → 123 (float) "1.23e2" → 123
(int) "10hello5" → 10
(int) 10.5 → 10
(array) "foo" → array(0 => "foo")
```

Comparisons

Comparison operators

Type juggling also plays a role in the way PHP comparison operators work:

```
TRUE iff expr1 is equal to expr2

after type juggling

expr1 <> expr2

Not equal

TRUE iff expr1 is equal to expr2

after type juggling

TRUE iff expr1 is not equal to expr2

after type juggling

TRUE iff expr1 is not equal to expr2

after type juggling

expr1 == expr2

Not identical

TRUE iff expr1 is not equal to expr2

after type juggling

TRUE iff expr1 is not equal to expr2,

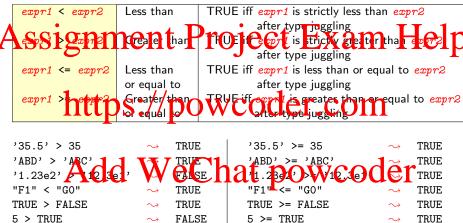
or they are not of the same type
```

Note: For = = and x, puneling strings are converted to numbers and compared numerically

```
"123" == 123
                             TRUE
                                        "123" === 123
                                                                      FALSE
                            FALSE
"123" != 123
                                        "123" !== 123
                                                                      TRUE.
"1.23e2" == 123
                             TRUE
                                        1.23e2 === 123
                                                                      FALSE
"1.23e2" == "12.3e1"
                            TRUE
                                        "1.23e2" === "12.3e1"
                                                                      FALSE
5 == TRUE
                                                                      FALSE.
                             TRUE.
                                        5 === TRUE
```

Comparison operators

Type juggling also plays a role in the way PHP comparison operators work:



Revision

Read

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R. Nixen: ttps://powcoder.com Learning ttps://powcoder.com O'Reilly, 2009.

Also read Add WeChat powcoder

- http://uk.php.net/manual/en/language.types.intro.php
- http://uk.php.net/manual/en/language.types.type-juggling.php
- http://uk.php.net/manual/en/language.operators.comparison.php
- http://uk.php.net/manual/en/types.comparisons.php