PHP Jump Start

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Introduction

- PHP (Personal Home Page Tools) is a computer scripting dynamically typed language mainly used for web applications development.

```php
<?php
$num1 = 10;
$num2 = 20;
$num3 = 30;
$sum = $num1 + $num2 + $num3;
echo "sum=$sum";
?>
```

Introduction

- PHP was originally developed by Rasmus Lardorf in 1994, and was publicly released in June 1995. This released version is known as PHP 2.

- In 1997 Zeev Suraski & Andi Gutmans rewrote PHP parser and formed the base of PHP 3.

- In 1998 Zeev Suraski & Andi Gutmans started a new rewrite of PHP core and produced the Zend Engine in 1999.

Introduction

- On May 22nd 2000 PHP 4 powered by Zend Engine 1.0 was released.

- On July 13th 2004 PHP 5 powered by Zend Engine 2.0 was released.

Development Tools

- There are many different IDEs we can use in order to develop in PHP.

Associative Arrays

- An array is an ordered collection of elements. Each element has a value, and is identified by a key. Each array has its own unique keys.

```php
<?php
$vecA = array(100=>"moshe",101=>"david",102=>"john");
$vecB = array("m"=>"moshe","d"=>"david","j"=>"john");
$vecA[100] = "moshiko";
echo $vecA[101];
?>
```

Object Oriented Programming

- As of PHP 5, we can define classes, abstract classes and interfaces. The syntax is similar to the one we use in Java.

```php
interface Printable
{
    function print();
}

class Bird extends Animal implements Printable, Flyable
{
    ...
}
```

Object Oriented Programming

- As of PHP 5.4, we can define traits in order to group functionality and share it horizontally with other classes.

```
trait Academic {
    function think(){
        echo "I think";
    }
}


class Student extends Person {
    use Academic;
    //...
}
```

Functional Programming

- PHP allows us to assign functions to variables. We can easily define functions that take other functions as arguments.

```php
<?php
function doSomething() { … }
$temp = 'doSomething';
$temp();
?>
```

Functional Programming

- PHP allows us to define anonymous functions. Makes things simpler when passing over a function as argument to another function.

```php
<?php
doSomething(function() {...});
?>
```

Web Applications Frameworks

- There are many available frameworks we can use when coding in PHP.

Open Source Projects

Learning Management Systems

www.caroline.net

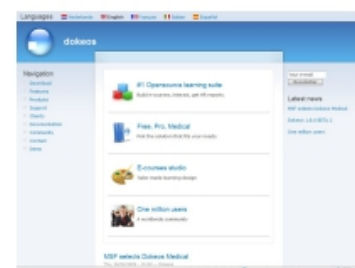www.atutor.ca

www.moodle.org

www.ilias.de

www.edocebo.org

www.dokeos.com

Open Source Projects

Enterprises Resources Planning

www.erp5.org

www.dolibarr.org

www.openpro.com

www.erp21.eu

www.weberp.org

open.mitija.com

Open Source Projects

Customers Relationships Management

www.covide.net

xrms.sourceforge.com

www.sugarcrm.com

www.fireflyseo.com

www.civicrm.org

www.vtiger.com

Open Source Projects

Content Management Systems

www.phpbb.com

www.drupal.org
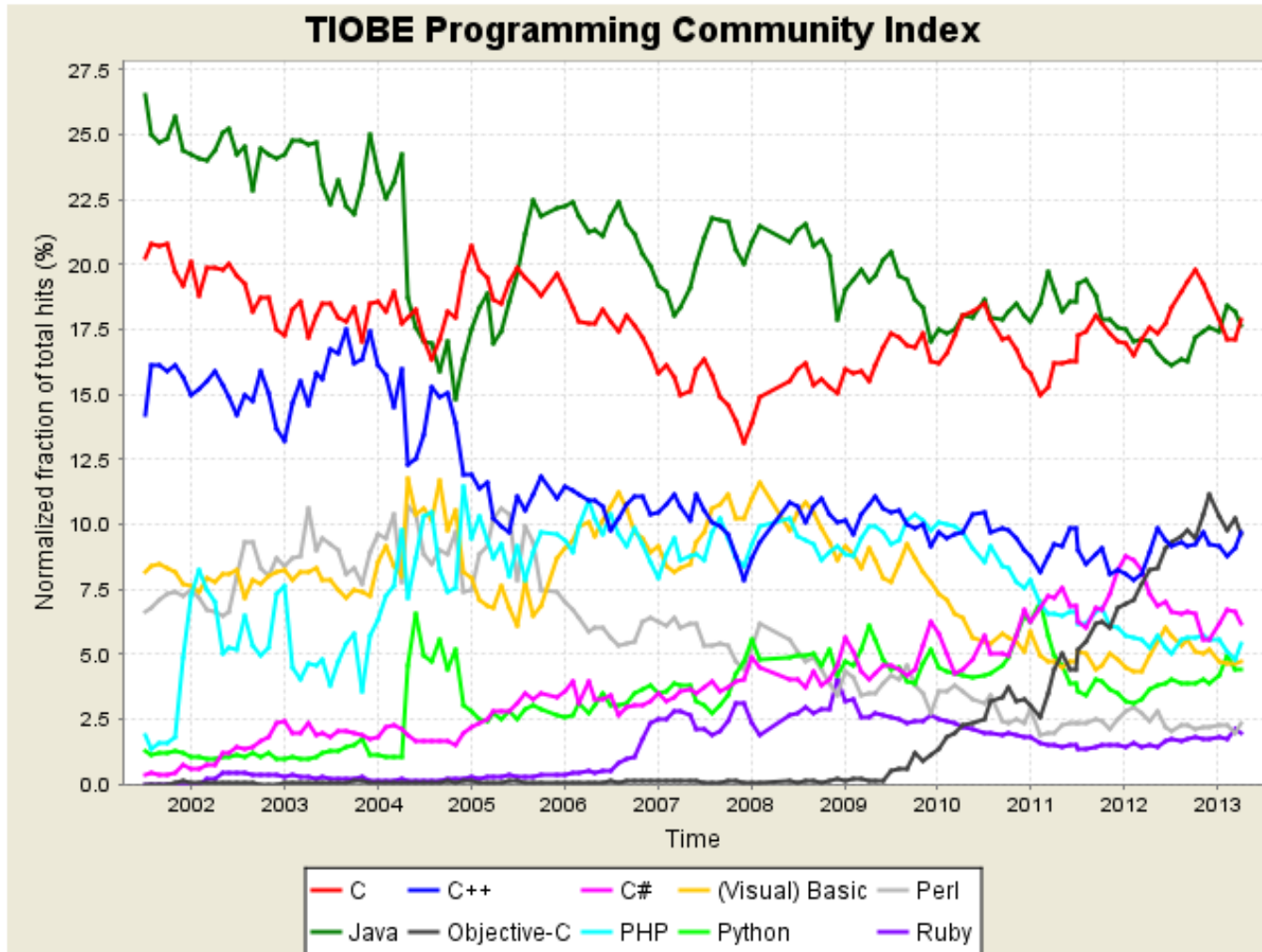
www.wordpress.org

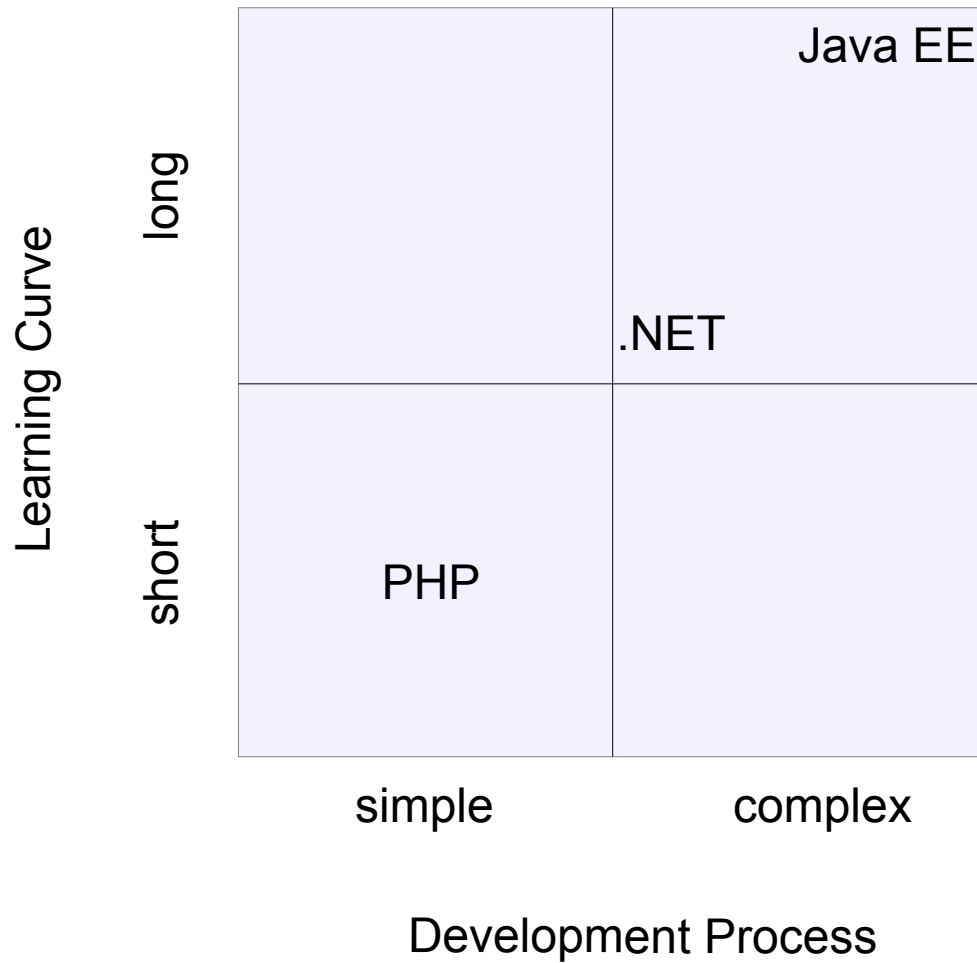www.pligg.com

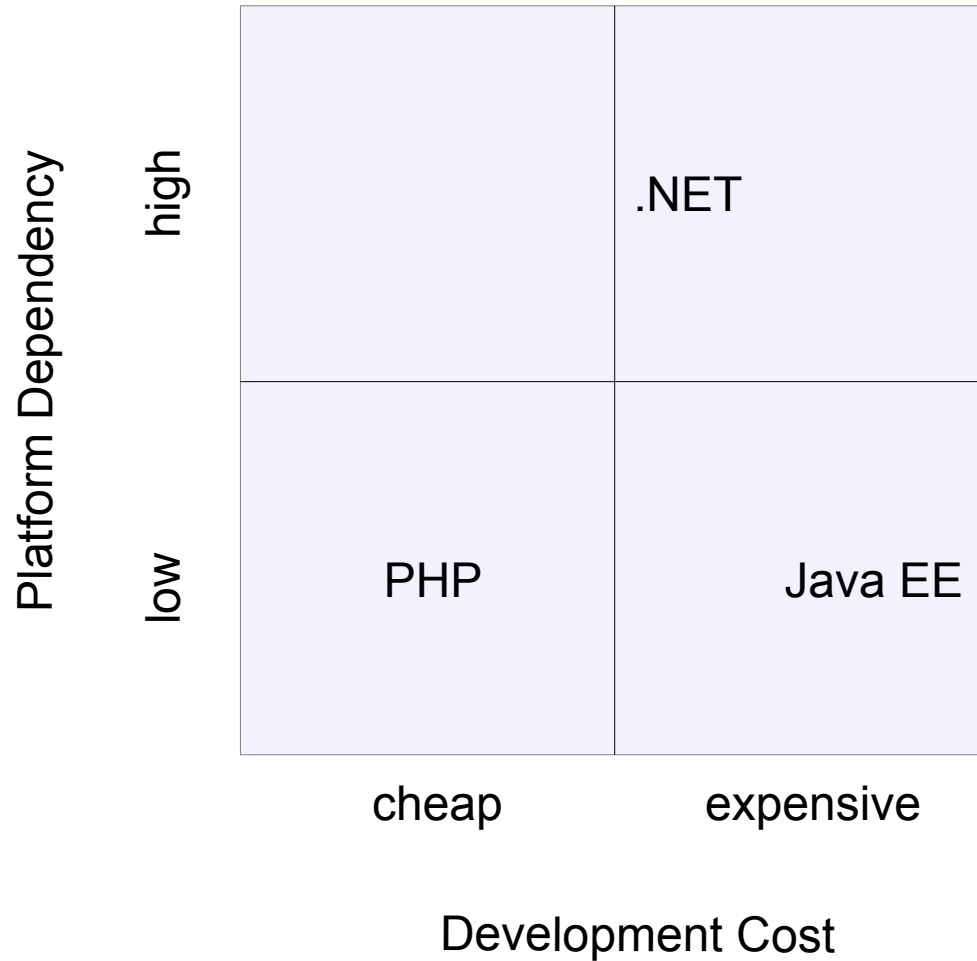www.elgg.org

www.joomla.org

PHP, Java EE & .NET

TIOBE Programming Community Index

www.tiobe.com

PHP, Java EE & .NET

Learning Curve

long

short

Java EE

.NET

PHP

simple   complex

Development Process

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Platform Dependency (vertical axis: high, low)
Development Cost (horizontal axis: cheap, expensive)

	cheap	expensive
high		.NET
low	PHP	Java EE

PHP, Java EE & .NET

Open Source Community

	few	many
big	Java EE	PHP .NET
small		

Hosting Services

PHP, Java EE & .NET

		weak	strong
Functional Programming	**strong**		.NET PHP
	weak		Java EE
		weak	**strong**

Object Oriented Programming
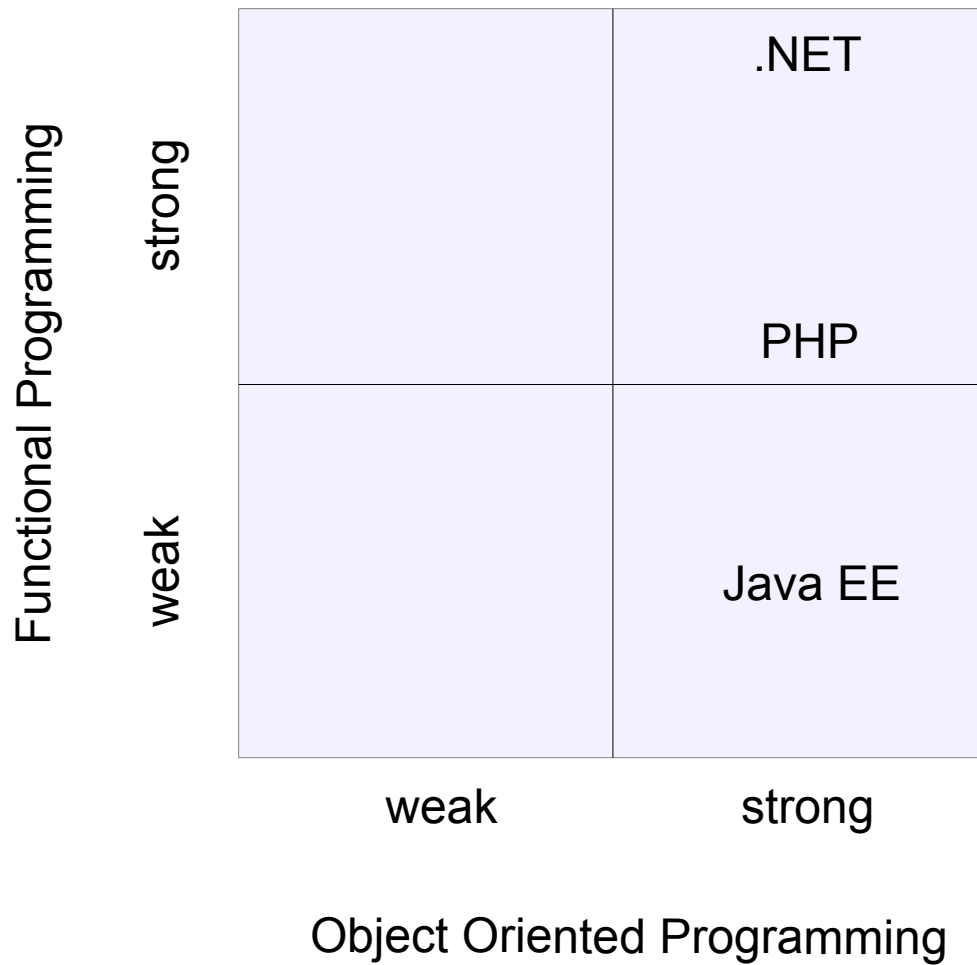
PHP, Java EE & .NET

Databases Dependency

strong

weak

	few	many
strong		
weak	.NET	PHP Java EE

few   many

Available Web Frameworks

PHP, Java EE & .NET
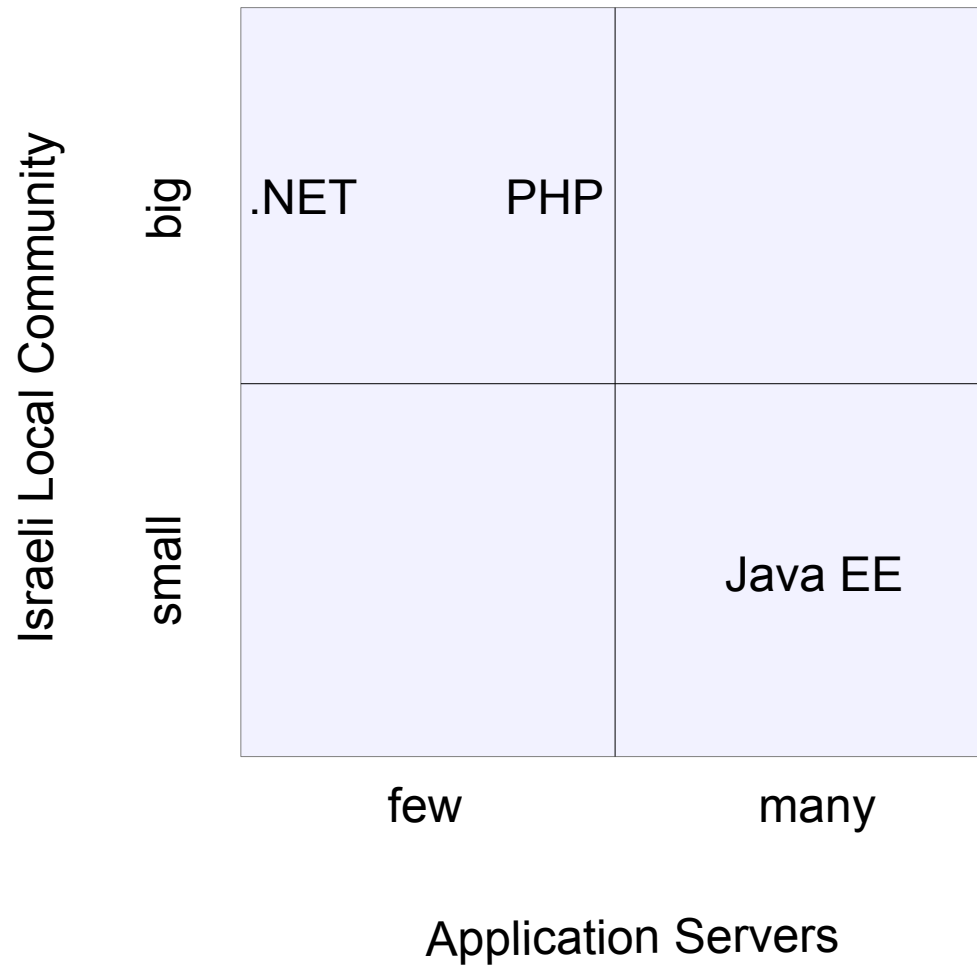
PHP Important Links

- www.php.net

- www.zend.com

- www.phpbook.co.il

- www.abelski.com

- www.xampp.org

Certifications in PHP

- The professional certifications in PHP are managed by Zend and include the following two certifications:

  Zend Certified Engineer in PHP 5.3

  Zend Certified Engineer in Zend Framework

- You can find more information about these two certifications at http://www.zend.com/services/certification/

- You can find a complete list of all people world wide who were certified as PHP engineers at http://www.zend.com/en/yellow-pages.

Questions & Answers

- Two courses you might find interesting include

  PHP Cross Platform Mobile Applications

  [more info](#)   [detailed plan](#)

  Android 4.2 Applications Development

  [more info](#)   [detailed plan](#)

- If you enjoyed my lecture please leave me a comment

  at http://speakermix.com/life-michael.

  Thanks for your time!

  Haim.