# Introduktion till PHP

... och byggandet av en simpel gästbok





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#### PHP

Learn to program in PHP, a widespread language that powers sites like Facebook.

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900k+ enrolled students

0%

4 Hours estimated course time

Beginner required technical level

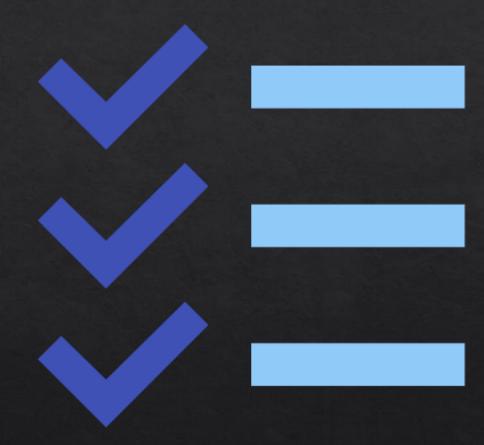
#### WELCOME TO PHP!

Introduction to PHP

This tutorial will introduce you to PHP, a server-side scripting language you can use to make dynamic websites and web applications.

# Dagens agenda – pass 1

- ♦ Introduktion till PHP
  - ♦ Hur används vi PHP?
  - ♦ Variabler
  - ♦ Loopar & iterationer
  - ♦ Funktioner
  - ♦ Namespace
  - ♦ Klasser
  - ♦ Exempel!
- ♦ Kursens github-repo
- Vi bygger en gästbok
- ♦ Del 2 Johan: Composer och DM



# Användning av PHP (1)

```
1 <?php
2
3 echo "This is an awesome script!";
4</pre>
```



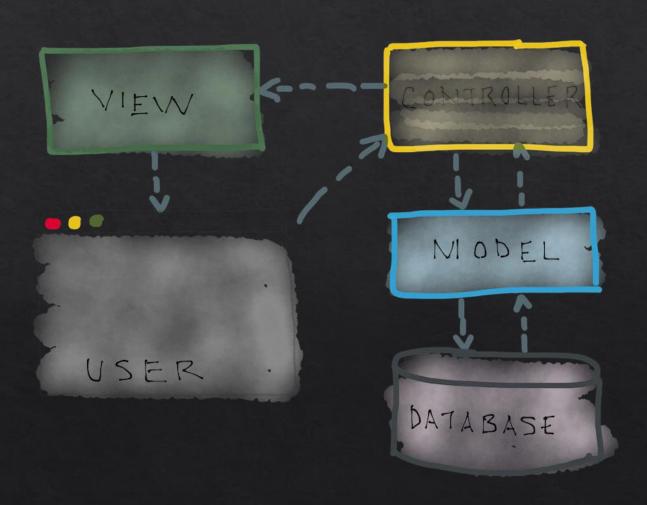
```
php index.php
This is an awesome script!
```

# Användning av PHP (2)

Welcome to my awesome site!

```
<!doctype html>
<html>
                                                      <!doctype html>
<head>
                                                      <html>
    <title>Example document</title>
                                                         <title>Example document</title>
</head>
                                                      </head>
<body>
                                                      <body>
                                                         Welcome to my awesome site!
                                                      </body>
         echo "Welcome to my awesome site!";
                                                      </html>
</body>
</html>
                           ① localhost:4000
```

# Användning av PHP (3)



# Användning av PHP (3 forts.)

```
<h1>Movies</h1>
<hr>>
Id
     Title
     Genre
     Length
     IMDB
  foreach($movies as $movie){
     echo "";
     echo "".$movie['id']."";
     echo "".$movie['title']."";
     echo "".$movie['genre']."";
     echo "".$movie['length']."";
     echo "<a href='".$movie['imdb']."'>IMDB</a>";
    echo "";
```

Över till hur man skriver PHP!

#### Variabler och utskrifter

- Variabler behöver inte deklareras innan de tilldelas värde
- ♦ PHP är ett otypat språk datatyp behöver inte anges
- ♦ Variabelnamn ska börja \$, följt av en bokstav, eller "\_" (underscore)
- Variabelnamn får bara innehålla bokstäver, siffror eller "\_" (underscore)
- ♦ Man använder "camelCase" vid namngivning av variabler

```
1  <?php
2
3  $name = "Anton";
4  $age = 27;
5
6  echo $name." is ".$age." years old";
7  // or
8  echo "$name is $age years old";
9</pre>
```

#### Kommentarer

```
1 <?php
2
3 // One line comment
4
5 /*
6    Multiple line comment
7 */
8</pre>
```

# if, elseif, else

```
1 <?php
2
3 if ($expr1) {
4    // $expr1 is true
5 } elseif ($expr2) {
6    // $expr2 is true
7 } else {
8    // else
9 }
10</pre>
```

#### switch

```
switch ($expr) {
   case 0:
       echo 'First case';
  case 1:
       echo 'Second case';
  case 3:
       echo 'Third case';
   default:
   echo 'Default case';
```

# for-loop

```
1 <?php
2
3 for ($i = 0; $i < 10; $i++) {
4    // for body
5 }
6</pre>
```

#### foreach

```
1 <?php
2
3 foreach ($iterable as $key => $value) {
4    // foreach body
5 }
6
7
```

# while

```
1 <?php
2
3 while ($expr) {
4     // structure body
5 }
6
7</pre>
```

## do while

```
1 <?php
2
3 do {
4     // structure body;
5 } while ($expr);
6
7</pre>
```

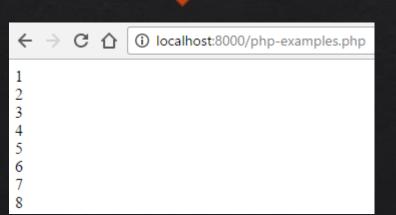
#### try catch

## Arrayer



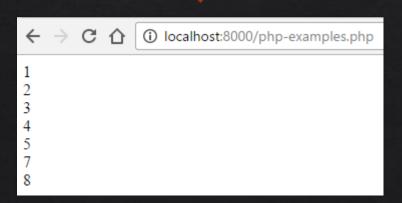
# Arrayer

```
1  <?php
2
3  $numbers = [1, 2, 3, 4, 5];
4  $numbers[] = 6;
5  $numbers[] = 7;
6  $numbers[] = 8;
7
8  foreach ($numbers as $number) {
9     echo $number . "<br>;
10 }
11
```



# Arrays

```
1  <?php
2
3  $numbers = [1, 2, 3, 4, 5];
4  $numbers[] = 6;
5  $numbers[] = 7;
6  $numbers[] = 8;
7
8  unset($numbers[5]); // Key 5 => number 6
9
10  foreach ($numbers as $number) {
11   echo $number . "<br>;
12  }
13
```



## Arrayer med nycklar



#### class Movie { private \$year; private \$grade; public function \_\_construct(\$title, \$year) \$this->year = \$year; \$this->grade = null; \$this->actors = []; public function getJSON() return json\_encode([ "year" => \$this->year, "grade" => \$this->grade, "actors" => \$this->actors \$movie = new Movie("Star Wars", 1977); echo \$movie->getJSON();

#### Klasser



## Namespace

- ♦ Vid mycket kod vill vi se till att vår kod inte kolliderar!
  - ♦ Vad händer om vi har två klasser som heter samma sak?
- Vi vill kunna bygga fristående komponenter, som fungerar med andra komponenter!
  - ♦ Så att vi kan återanvända (och använda andras) komponenter i olika projekt.



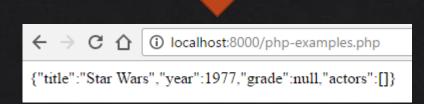
```
movie.php
namespace App;
class Movie {
   private $title;
   private $year;
   private $grade;
   public function __construct($title, $year)
        $this->year = $year;
        $this->grade = null;
        $this->actors = [];
   public function getJSON()
        return json_encode([
           "year" => $this->year,
            "grade" => $this->grade,
            "actors" => $this->actors
```



```
movie.php
namespace App;
class Movie {
   private $year;
   private $grade;
    public function __construct($title, $year)
       $this->year = $year;
       $this->grade = null;
       $this->actors = [];
    public function getJSON()
       return json_encode([
            "year" => $this->year,
            "grade" => $this->grade,
            "actors" => $this->actors
```

```
movie.php

1 <?php
2
3 require("movie.php"); // <= Jobbigt!
4
5 use App\Movie;
6
7 $movie = new Movie("Star Wars", 1977);
8 echo $movie->getJSON();
9
10
```



```
movie.php

1 <?php
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8 echo $movie->getJSON();
9
10
```

```
1 <?php
2
3 require("movie.php"); // <= Jobbigt!
4
5 use App\Movie as M;
6
7 $movie = new M("Star Wars", 1977);
8 echo $movie->getJSON();
9
```

# PHP – Style guidelines

http://www.php-fig.org/

Hantera formulärsdata

## Hantera data från GET-anrop

♦ Men HTTP-anrop (GET) kan man skickar med parametrar, t.ex.

♦ index.php?course=DA287A



## Hantera data från GET-anrop

- ♦ Men HTTP-anrop (GET) kan man skickar med parametrar, t.ex.
  - ♦ index.php?course=DA287A&courseResponsible=Anton



```
movie.php

1 <?php
2
3 $course = $_GET['course'];
4 $courseResponsible = $_GET['courseResponsible'];
5 echo $course; // Prints "DA287A"
6 echo $courseResponsible; // Prints "Anton"
7
```

# Hantera data från POST-anrop

♦ Till skillnad från GET (som används för att efterfråga data) så används POST för att skicka med data. Detta görs t.ex. genom ett HTML-formulär:

♦ Och tas sedan emot genom \$\_POST-funktionen i PHP.

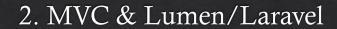
```
covie.php

1 <?php
2
3 $course = $_POST['course'];
4 $courseResponsible = $_POST['courseResponsible'];
5 echo $course; // Prints "DA287A"
6 echo $courseResponsible; // Prints "Anton"
7
8</pre>
```

Vi bygger en gästbok!

#### Kursmoment

1. PHP & Composer



3. Testning & deployment











