

Multimedia im Netz (Online Multimedia)

Wintersemester 2014/15

Übung 02 (Nebenfach)



Organization: Language

- Multiple requests for English Slides
- Tutorial still held in German

Introduction to PHP II

Control expressions: Switch

```
<?php
    $lieblingsfarbe = "rot";

    switch($lieblingsfarbe){
    case "rot":
        echo "Deine Lieblingsfarbe ist rot.";
        break;
    case "blau":
        echo "Deine Lieblingsfarbe ist blau.";
        break;
    case "gelb":
        echo "Deine Lieblingsfarbe ist gelb.";
        break;
    case "gruen":
        echo "Deine Lieblingsfarbe ist gruen.";
        break;
    default:
        echo "Deine Lieblingsfarbe ist weder rot, blau, gelb noch gruen.";
    }
?>
```

Array functions

- Convert a string to an array
array **str_split**(string \$string [, int \$split_length = 1])
- Add one or more elements at the end of an array
int **array_push**(array \$array, mixed \$var [, mixed \$...])
- Checks if a value exists in an array
bool **in_array**(mixed \$needle, array \$haystack [, bool \$strict = FALSE]);
- **More array functions:**
http://www.w3schools.com/php/php_ref_array.asp
- **General Reference:**
<http://php.net/manual/en/>

Saving data

- Data can/needs to be saved
- Client-side: smaller size of data storage, e.g. Cookies
- Server-side: possibility to store a lot of data, e.g. in databases
- Sessions are used to store variables on the server side

Sessions

- What is it good for? The values of variables are persistent, even after refreshing the page
- The Session-ID (saved in cookie or URL) is used to identify sessions
→ necessary to store and retrieve data/variables
- Start a session in PHP (**Important:** This has to be done at the very beginning of the script):
`<?php session_start(); ?>`
- Save values to session variables
`$_SESSION['versuche'] = 10;`
- Variable can be accessed later
`echo $_SESSION['versuche']; // output: 10`

Example (1): Form Skeleton

session.php

```
<!DOCTYPE html>
<html>
  <head><title>Counter</title></head>
  <body>

    <form action="session.php">
      <input type="submit" value="Count"/>
    </form>
  </body>
</html>
```


Example (1): Start a session

session.php

```
<?php session_start(); ?>

<!DOCTYPE html>
<html>
  <head><title>Counter</title></head>
  <body>

    <form action="session.php">
      <input type="submit" value="Count"/>
    </form>
  </body>
</html>
```

Example (1): Store session data

session.php

```
<?php session_start();
    if(!isset($_SESSION['counter'])){
        $_SESSION['counter'] = 0;
    } else {
        $_SESSION['counter'] += 1;
    }
    echo "Counter " . $_SESSION['counter'];
?>
<!DOCTYPE html>
<html>
  <head><title>Counter</title></head>
  <body>
    <form action="session.php">
      <input type="submit" value="Count"/>
    </form>
  </body>
</html>
```

Example (2): Initialize Session

index.php

```
<?php session_start();
    $_SESSION[ 'number' ] = 999;
?>

<!DOCTYPE html>
<html>
  <head><title>Zahl merken</title></head>
  <body>
    <h1>Zahl merken</h1>
    <form action="zahl.php">
      <p>Wir merken uns die Zahl 999 :)</p>
      <input type="submit" value="weiter"/>
    </form>
  </body>
</html>
```

Example (2): Access Session Variable

zahl.php

```
<?php session_start();
?>

<!DOCTYPE html>
<html>
  <head><title>Zahl merken</title></head>
  <body>
    <h1>Zahl merken</h1>
    <?php
      echo "Die gemerkte Zahl ist die " .
        $_SESSION['number'] . " :)" ;
    ?>
  </body>
</html>
```

Assignment 2

- **Topic: Hangman**
- Due in: 1 Week
- Due date: 27.10.2014 12:00 Uhr

Hangman

Das gesuchte Wort: _____

Hangman

Das gesuchte Wort: M _ _ T _ M _ _ _ A

Live Exercise

- Game: **Guess my number**
- Tasks:
 - The user picks a number between 1 and 100
 - A PHP script tries to guess the number
 - The user only indicates if his/her number is higher or lower than the computer's guess (add buttons „higher“ and „lower“ for this)
 - The user wins if the script needs more than 7 attempts

Thanks!
What are your questions?