P HP H ypertext P reprocessor

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Whoami

- Seven years in Information Security
- Lecturer
- Author

Agenda

- Introduction
- The Case
- Looping
- Form

The Case

- An online shopping have 500 types of products. This site let the visitors to see the products.

- Solution 1:
  - Make a website for every products. It means, you have to make 500 web pages (500 files) in minimum

- The Problems:
  - How if there is a new product?
  - It's complicated to manage file, update, etc

- Solution 2:
  - Use web programming (Javscript, PHP, ASP, JSP). Data of products will be saved in database. To show 500 of products, you just make 1 file.

Web Programming

- The Activity to build a website.
- There are two type of web programming
  - Client Side
  - Server Side

Requisite

- Web Server (server http: 80)
  - Used to service of requests using http
  - Software
    - Internet Information Service (IIS). Apache, etc
- Interpreter Script
  - Used to translate a program script
- Database Server
  - Used to save your data
  - Software
    - MySQL, SQL Server, Oracle, PostgresSQL, etc
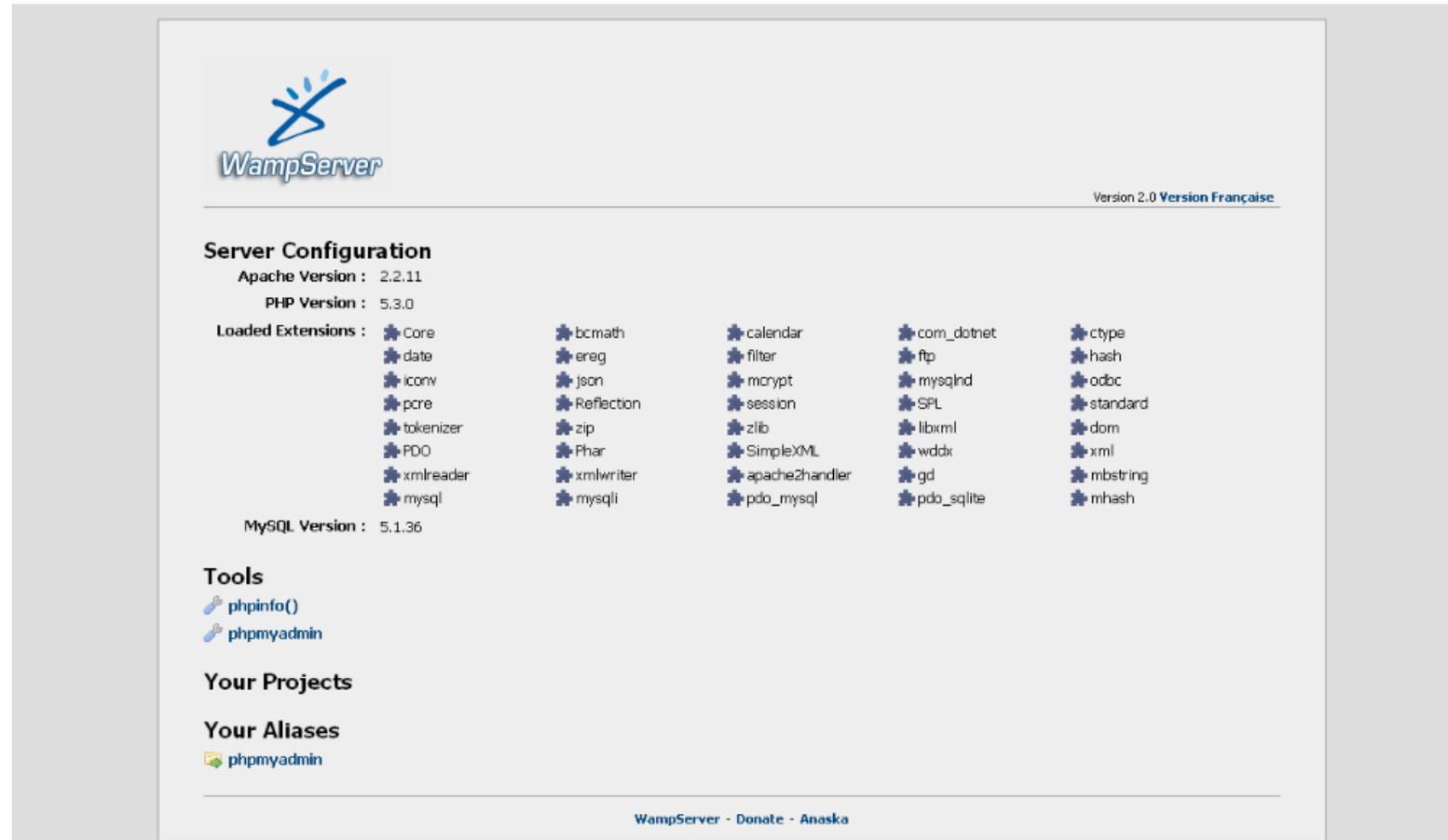
How it works
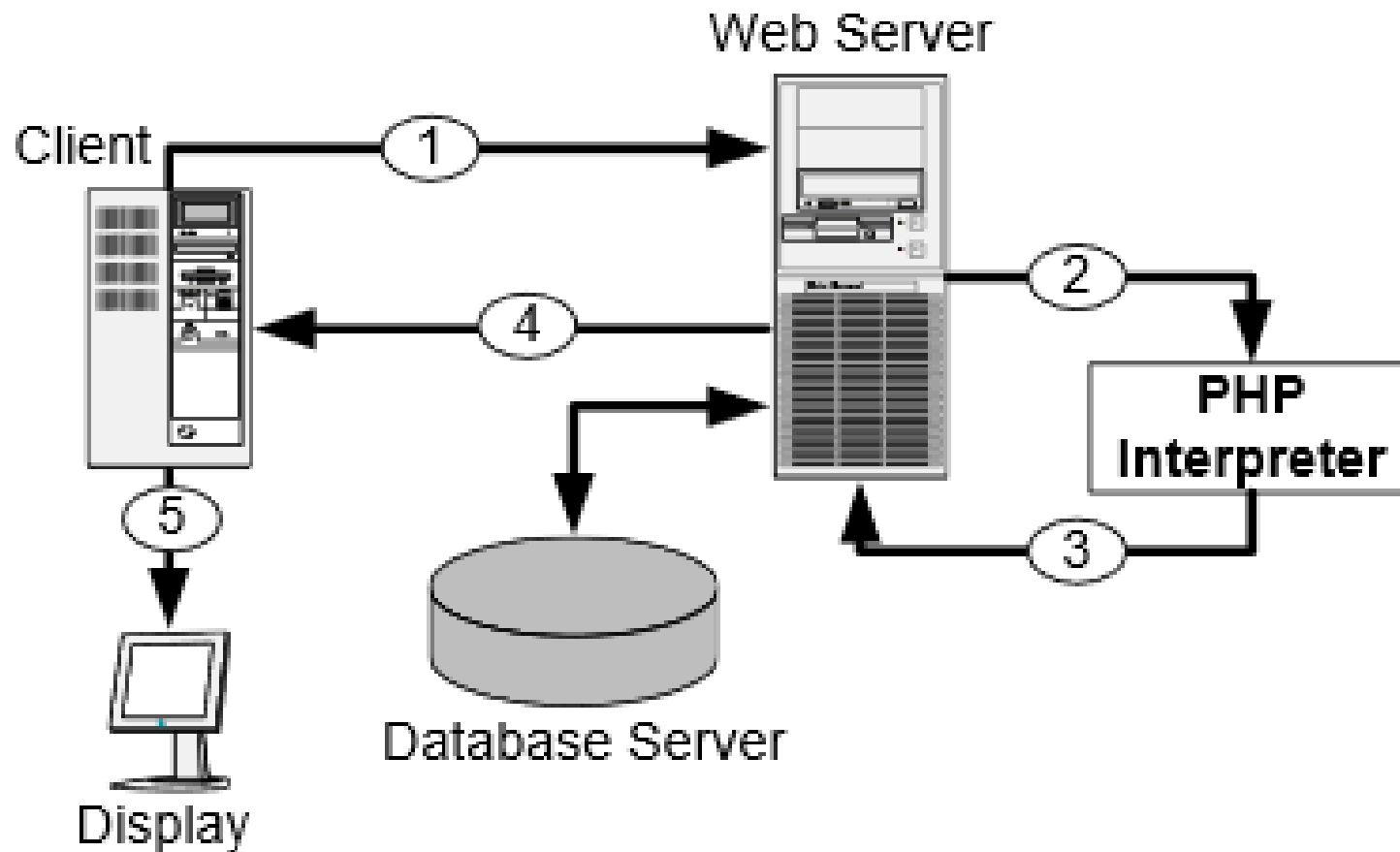
Wamp

- (W)indows, (A)pache,(M)ySQL,(P)HP
- It mix all software that needed to build a website
- Other kind of Wamp
  - Wamp Server/WAMP
  - PHPTriad/Apache2Triad
  - XAMPP

Using Wamp

- Open the Wamp apps → Start Wamp Server
- Check in the browser with:
  - http://localhost
  - http://127.0.0.1
  - http://youripaddress
  - http://yourcomputername (i.e.http://digdo-laptop)

Using Wamp

- If Wamp has running well, then you'll see the below picture

Default Web Page

- Your web pages is in c:\wamp\www
- You have to save all of your web pages in that folder

The First Program

- Make a web page that can show number from 1 to 10000

The First Program

- Solution 1:
  - Using HTML

```
<html>
<body)
   1<br>
   2<br>

   …

   …
   9999<br>
   10000
</body>
</html>
```

The First Program

- Solution 2:
  - Using PHP

```
<html>
<body)
    <?php
        for($i=0;$<i=10000;$i++)
            echo "$i<br>";
    ?>
</body>
</html>
```
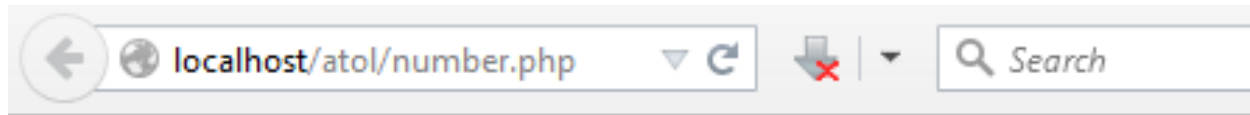
How to write a PHP Script

- Save your script in c:\wamp\www\yournamefolder\
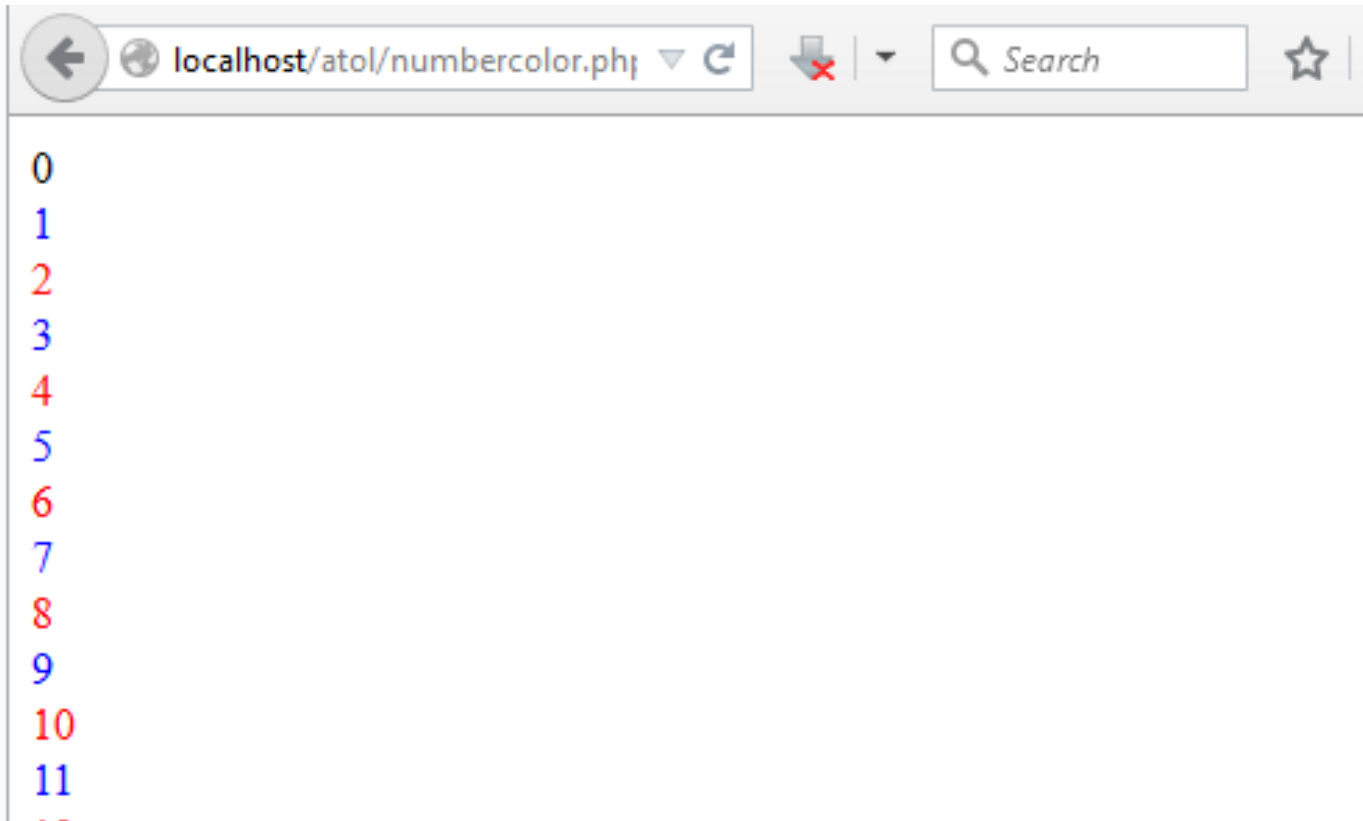- Save the first program name with **number.php**

Call your script

- Access http://localhost/yournamefolder/number.php

localhost/atol/number.php ▽ C ⟱ | ▾ 🔍 Search

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12

Modify your script with add the color

- If even number, the color is red; if odd number, the color is blue

Modify your script with add the color

```
1   <html>
2   <body)
3       <?php
4           for($i=0;$i<=100;$i++)
5           {
6               if($i % 2 == 0)
7                   echo "<font color=red>$i</font><br>";
8               else
9                   echo "<font color=blue>$i</font><br>";
10          }
11      ?>
12  </body>
13  </html>
```
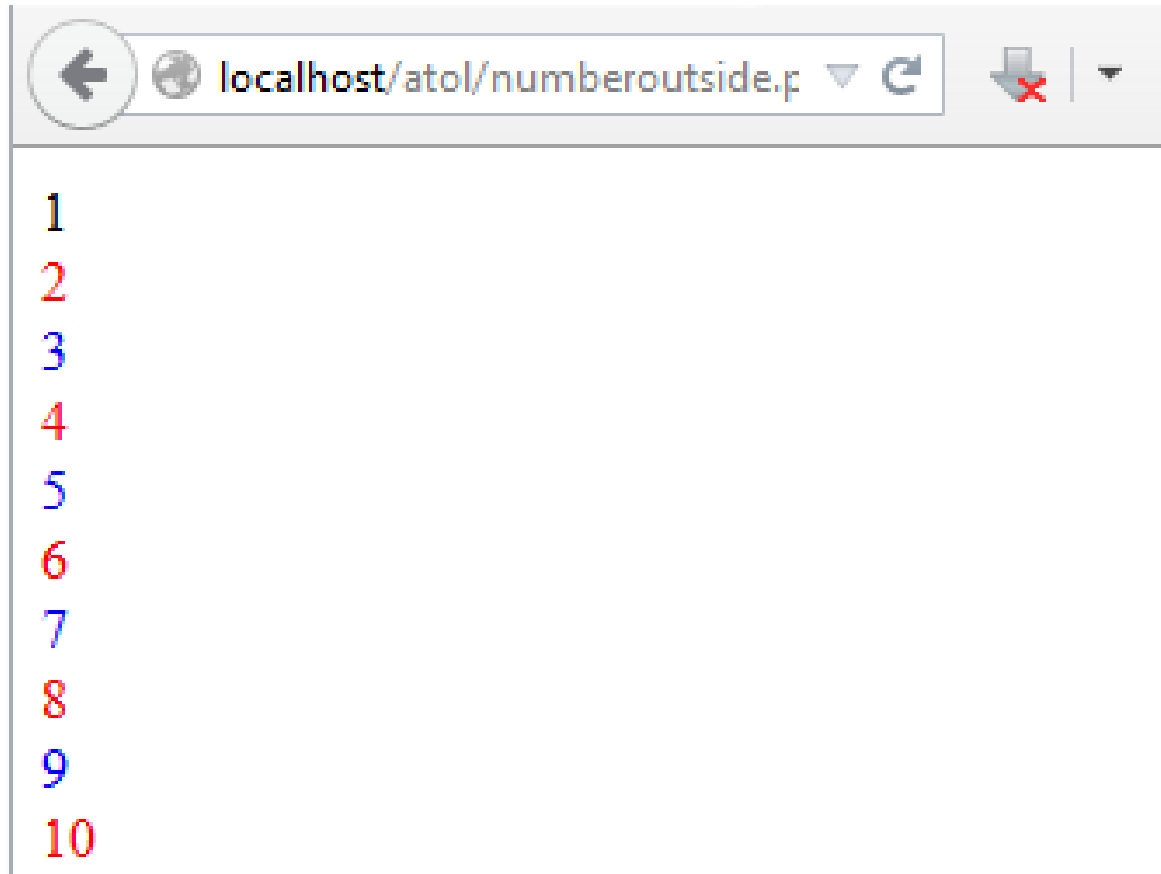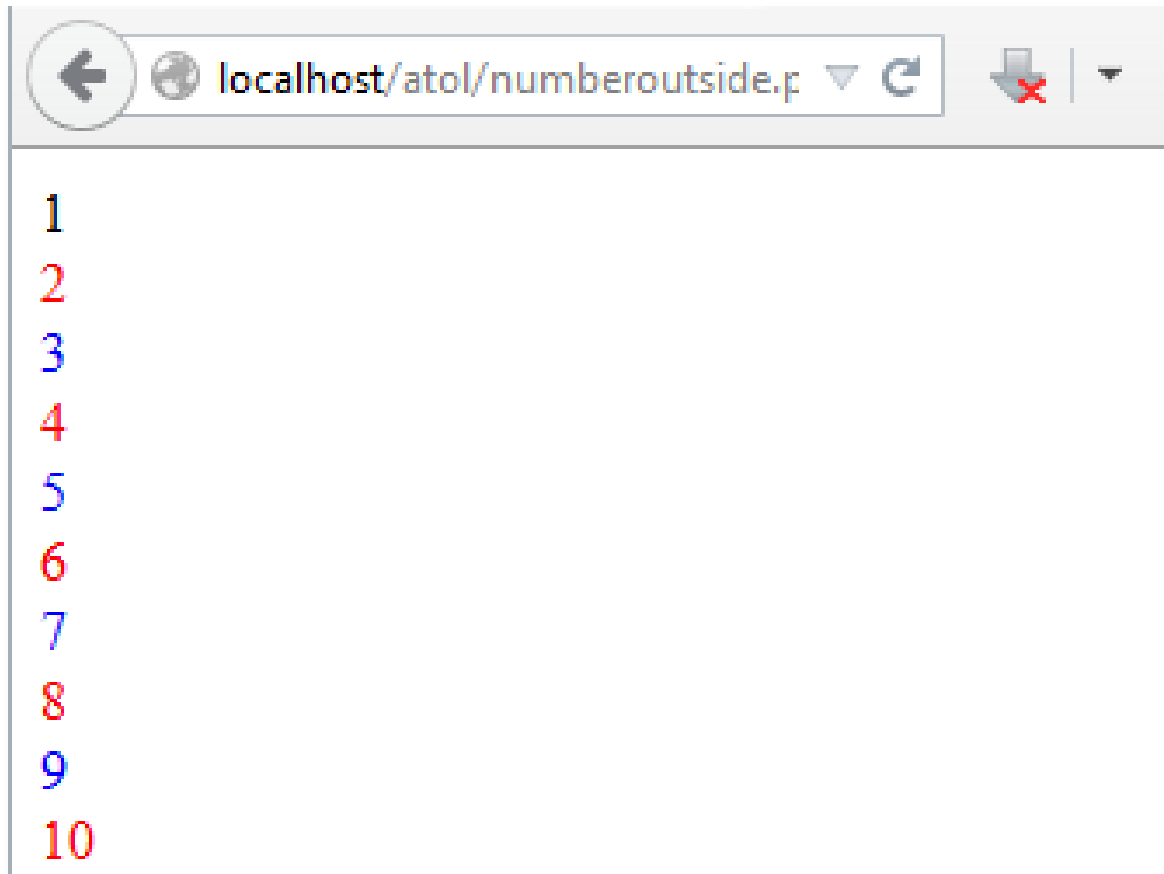
Send value from the outside

- Modify your previous source code (numbercolor.php)
- Add the feature "initial value and end of value" depend on user
- It is not must be 1 until 10000

Send value from the outside

```php
1  <html>
2  <body)
3      <?php
4          for($i=$_GET['initial'];$i<=$_GET['end'];$i++)
5          {
6              if($i % 2 == 0)
7                  echo "<font color=red>$i</font><br>";
8              else
9                  echo "<font color=blue>$i</font><br>";
10         }
11     ?>
12 </body>
13 </html>
```

Send value from the outside

How to send value from the outside

- http://localhost/atol/numberoutside.php?initial=1&end=10

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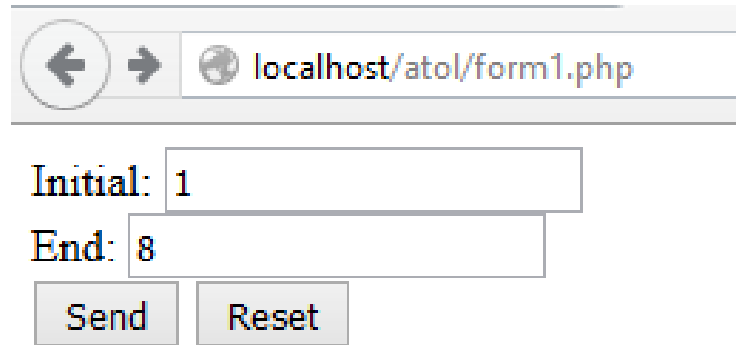7
8
9
10

How to send value from the outside

- Sending the value in previous slide is difficult

- User have to know what is variable in PHP script

- To make easier in filling the data, we usually use form

Make a Form

```
1  <html>
2  <body>
3      <form method="GET" action="numberoutside.php">
4      Initial: <input type="text" name="initial"><br>
5      End: <input type="text" name="end"><br>
6      <input type="submit" value="Send">
7      <input type="reset">
8      </form>
9  </body>
10 </html>
```
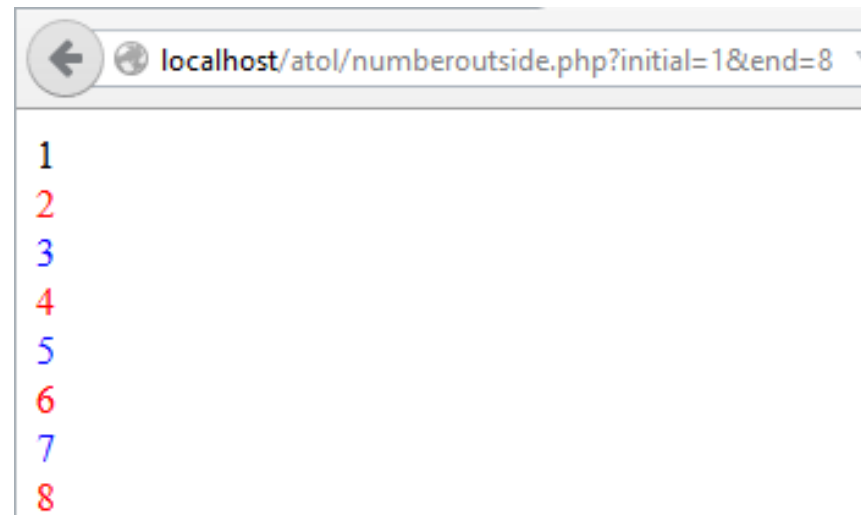
- Save as form1.php

Send data via Form (GET Method)

Send data with POST method

- Modify the previous source code (form1.php)

```
1  <html>
2  <body>
3      <form method="POST" action="numberoutside2.php">
4      Initial: <input type="text" name="initial"><br>
5      End: <input type="text" name="end"><br>
6      <input type="submit" value="Send">
7      <input type="reset">
8      </form>
9  </body>
10 </html>
```
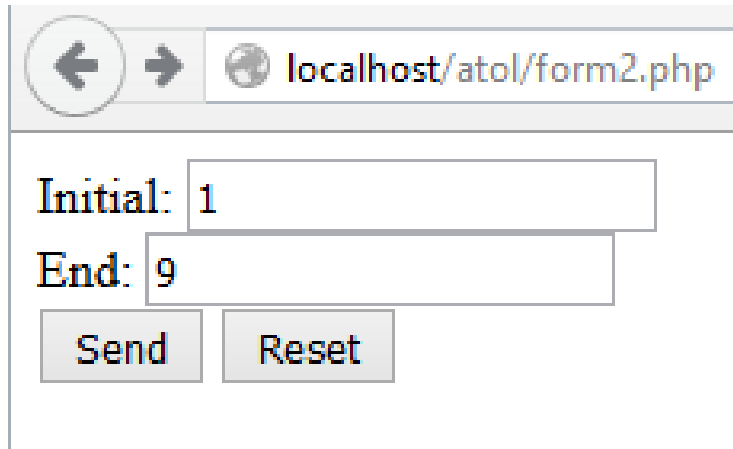
- Save as form2.php

Send data with POST method

- Modify the previous source code (numberoutside.php)

```
1   <html>
2   <body)
3       <?php
4           for($i=$_POST['initial'];$i<=$_POST['end'];$i++)
5           {
6               if($i % 2 == 0)
7                 echo "<font color=red>$i</font><br>";
8               else
9                 echo "<font color=blue>$i</font><br>";
10          }
11      ?>
12  </body>
13  </html>
```
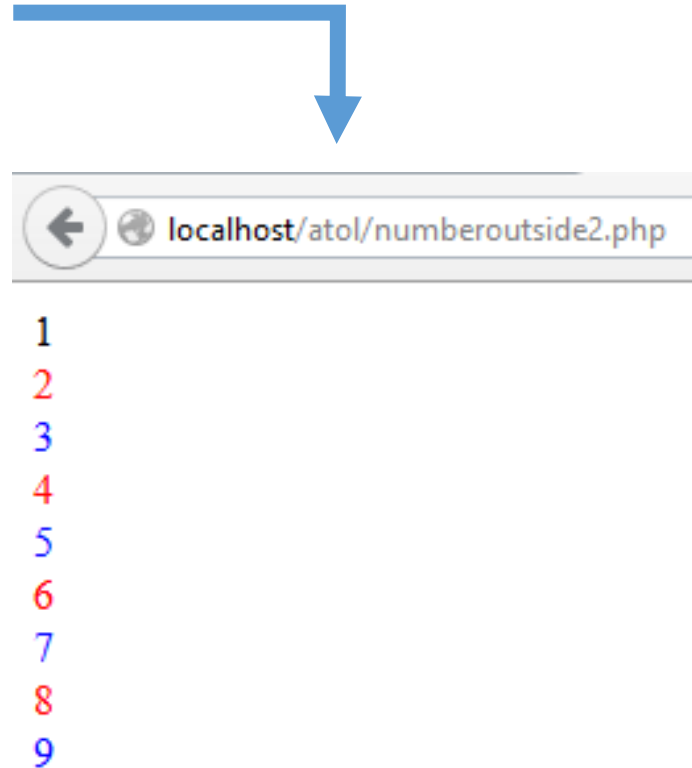
- Save as numberoutside2.php

Send data via Form (POST Method)

localhost/atol/form2.php

Initial: 1

End: 9

Send   Reset

localhost/atol/numberoutside2.php

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Prepare for Next Week

- Learn
  - HTML
  - Table and Form
  - Javascript