

Perl and HTML

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Nirmala Venkat

16 December 2015



Learning Objectives

We will learn how to create



Learning Objectives

We will learn how to create

- **HTML pages**



Learning Objectives

We will learn how to create

- HTML pages
- CGI (Common Gateway Interface) module



System Requirements



System Requirements

- **Ubuntu Linux 12.04 OS**



System Requirements

- **Ubuntu Linux 12.04 OS**
- **Perl 5.14.2**



System Requirements

- **Ubuntu Linux 12.04 OS**
- **Perl 5.14.2**
- **Firefox Web Browser**



System Requirements

- **Ubuntu Linux 12.04 OS**
- **Perl 5.14.2**
- **Firefox Web Browser**
- **Apache HTTP server**



System Requirements

- **Ubuntu Linux 12.04 OS**
- **Perl 5.14.2**
- **Firefox Web Browser**
- **Apache HTTP server**
- **gedit Text Editor**



Pre-requisites

To follow this tutorial, you should have



Pre-requisites

To follow this tutorial, you should have

- Working knowledge of Perl Programming



Pre-requisites

To follow this tutorial, you should have

- Working knowledge of Perl Programming
- If not, for relevant Perl tutorials, visit <http://spoken-tutorial.org>



What is Perl CGI ?



What is Perl CGI ?

- Perl programs used on the web are called Perl CGI



What is Perl CGI ?

- Perl programs used on the web are called Perl CGI
- CGI stands for Common Gateway Interface



What is Perl CGI ?

- Perl programs used on the web are called Perl CGI
- CGI stands for Common Gateway Interface
- It is an interface to serve client-server web communication



What is Perl CGI ?

- Perl programs used on the web are called Perl CGI
- CGI stands for Common Gateway Interface
- It is an interface to serve client-server web communication
- CGI.pm has ready to use functions



How CGI Program works ?



How CGI Program works ?

- When a file in certain directory is requested from web browser



How CGI Program works ?

- When a file in certain directory is requested from web browser
- unlike HTTP server, Perl CGI scripts get executed and send output back to browser



How CGI Program works ?

- When a file in certain directory is requested from web browser
- unlike HTTP server, Perl CGI scripts get executed and send output back to browser
- CGI programs can be a Perl script, Shell Script, C or C++ program



Apache Installation

In the terminal,



Apache Installation

In the terminal,
sudo apt-get install apache2



Steps to run the CGI script on web server:



Steps to run the CGI script on web server:

- Place the Perl program in the **cgi-bin** directory



Steps to run the CGI script on web server:

- Place the Perl program in the **cgi-bin** directory
- Program filename must end with **.pl** or **.cgi** extension



Steps to run the CGI script on web server:

- Place the Perl program in the **cgi-bin** directory
- Program filename must end with **.pl** or **.cgi** extension
- Set permission to the file to execute on the server



Steps to run the CGI script on web server:



Steps to run the CGI script on web server:

- Run the script



Steps to run the CGI script on web server:

- Run the script
- The URL for the program
`http://localhost/cgi-bin/filename.cgi`



Summary

In this tutorial we learnt about how to create

- **HTML pages**
- **CGI (Common Gateway Interface) module**



Assignment

- 1 In **form.cgi** program, add **checkbox** option for languages the user has learned
☐ C/C++ ☐ Java ☐ Perl
- 2 Add **textarea** option to get the user feedback
- 3 Print the user entered information on the webpage



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates on passing online tests
- For more details, please write to contact@spoken-tutorial.org



Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>

