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python

Python

An Overview of Python

- ✦ What is Python?
- ✦ Interpreted languages
- ✦ Advantages and disadvantages
- ✦ Downloading and installing
- ✦ Which version of Python
- ✦ Where to find documentation

Running Python Scripts

- ✦ Structure of a Python script
- ✦ Using the interpreter interactively
- ✦ Running standalone scripts under Unix and Windows

Getting Started

- ✦ Using variables
- ✦ String types: normal, raw and Unicode
- ✦ String operators and expressions
- ✦ Math operators and expressions
- ✦ Writing to the screen
- ✦ Command line parameters
- ✦ Reading from the keyboard

Flow Control

- ✦ About flow control
- ✦ Indenting is significant
- ✦ The if and elif statements
- ✦ while loops
- ✦ Using lists
- ✦ Using the for statement
- ✦ The range() function

Sequence Data

- ✦ list operations
- ✦ list methods
- ✦ Strings are special kinds of lists
- ✦ tuples
- ✦ sets
- ✦ Dictionaries

Defining Functions

- ✦ Syntax of function definition
- ✦ Formal parameters
- ✦ Global versus local variables
- ✦ Passing parameters and returning values

Working with Files

- ✦ Text file I/O overview
- ✦ Opening a text file
- ✦ Reading text files
- ✦ Raw (binary) data
- ✦ Using the pickle module
- ✦ Writing to a text file

Dictionaries and Sets

- ✦ Dictionary overview
- ✦ Creating dictionaries
- ✦ Dictionary functions
- ✦ Fetching keys or values
- ✦ Testing for existence of elements
- ✦ Deleting elements

Errors and Exception Handling

- ✦ Dealing with syntax errors
- ✦ Exceptions
- ✦ Handling exceptions with try/except
- ✦ Cleaning up with finally

Using Modules

- ✦ What is a module?
- ✦ The import statement
- ✦ Function aliases
- ✦ Packages

Regular Expressions

- ✦ RE Objects
- ✦ Pattern matching
- ✦ Parsing data
- ✦ Subexpressions
- ✦ Complex substitutions
- ✦ RE tips and tricks

Highlights of the Standard Library

- ✦ Working with the operating system
- ✦ Grabbing web pages
- ✦ Sending email
- ✦ Using glob for filename wildcards
- ✦ math and random
- ✦ Accessing dates and times with datetime
- ✦ Working with compressed files

An Introduction to Python Classes

- ✦ About o-o programming
- ✦ Defining classes
- ✦ Constructors
- ✦ Instance methods
- ✦ Instance data
- ✦ Class methods and data

Destructors

Data Wrangling

- ✦ Output formatting
- ✦ The string module
- ✦ Compiling regular expressions
- ✦ Text matching and substitution
- ✦ Extended regular expressions
- ✦ Subexpressions and backreferences
- ✦ Alternate data formats
- ✦ Filename and path manipulation

OS Services

- ✦ Using os.path
- ✦ Working with file systems
- ✦ Using os
- ✦ Process parameters
- ✦ Executing external commands
- ✦ Time and date data
- ✦ Environment variables

Graphical Programming

- ✦ Graphical programming overview
- ✦ About Tk
- ✦ The TkInter module
- ✦ Creating widgets
- ✦ Packing widgets
- ✦ Fonts, colors, and other widget attributes
- ✦ Starting the application
- ✦ Bindings and events

Creating Modules

- ✦ Module overview
- ✦ Understanding namespaces
- ✦ Writing functions
- ✦ Variable scope
- ✦ Documentation
- ✦ Distributing modules

Testing and Debugging

- ✦ Debugging issues
- ✦ Using the debugger
- ✦ Post-mortem debugging
- ✦ Designing tests
- ✦ Creating unit tests
- ✦ Making and using a test harness

Fun with Objects

- ✦ Defining classes
- ✦ Inheritance
- ✦ Multiple inheritance
- ✦ Auto-generating methods

Pythonic Programming

- ✦ Python style
- ✦ Lambda functions
- ✦ List comprehensions
- ✦ Generators and iterators

Network Services

- ✦ Using FTP
- ✦ Sending with SMTP
- ✦ Python and CGI
- ✦ Plain CGI
- ✦ A shopping cart example
- ✦ Using templates

Database Access

- ✦ DB-API overview
- ✦ The dbi module
- ✦ The odbc module
- ✦ Queries
- ✦ Non-query statements

Using XML Data

- ✦ XML Data
- ✦ SAX vs. DOM
- ✦ Using xml.sax
- ✦ Parsing an XML file
- ✦ Using xml.dom
- ✦ Accessing XML objects

Serializing Objects (aka Pickling)

- ✦ About serialization
- ✦ The pickle module
- ✦ Using dump()
- ✦ Using load()
- ✦ Where to use

Contact

KARNATAKA BRANCHES

Regional Office : Malleshwaram - Bangalore

#58/4, 8th main, 17th 'A' Cross, Malleshwaram, Bangalore - 560 055.
Phone : +91-80-4111 0955, Mobile : +91-99800 10081

Jayanagar - Bangalore

#2067/1, "ABINAI" 3rd Floor, East End Main, Jayanagar 9th Block, Bangalore - 560 069.
Phone : +91-80-2664 6117, Mobile : +91-99800 22667

Koramangala - Bangalore

#270, Sancia House, 4th floor, 14th cross, Domlur Layout, Bangalore-560071.
Phone : +91-80-40937171 / 72, Mobile : +91-96633 00524

Shimoga

2nd Floor, Above "Abharana" Jewelers, J.P.N.Road, Gopi Circle, Shimoga - 577 201.
Phone : +91-8182-401449, Mobile : +91-96113 55677

Davangere

1st Floor, Above "Hideout" Hotel, opp, J.J.M. Medical College,
MCC 'B' Block, Davangere - 577 004.
Phone : +91-8192-224378, Mobile : +91-99800 40086

Hubli

Aashiyana Complex, Sirur Park, Vidyanagar, Hubli - 580 026.
Phone : +91-836-4261664, Mobile : +91-96323 52352

Tumkur

2318/B1, Abharana Arcade, M.G.Road, Tumkur-572101.
Phone : +91-816-4011252, Mobile : +91-9731 061439

TAMIL NADU BRANCHES

Regional Office : Mount Road - Chennai

624, Anna Salai, 4th Floor, Khivraj Building, Diagonally Opp USA Embassy,
Near Gemini Flyover, Chennai - 600 006.
Phone : +91-44-4204 5681 Mobile : +91-97909 36547

Anna Nagar - Chennai

A Block, 14A, 1st Floor, Aarai Complex, 3rd Avenue, Near Anna Nagar Round Tana,
Anna Nagar, Chennai - 600102. Phone : +91-44-4269 3886, Mobile : +91-97907 40766

Adyar - Chennai

#57, 2nd Floor of Kaba Plaza, L.B. Road, Near Adyar Police Station,
Adyar, Chennai - 600020.
Phone : +91-44-4550 4146, Mobile : +91-90030 98840

Gandhipuram - Coimbatore

Sreekrishna Towers, Old No : 32 New No 25, Sengupta Street, Behind City Tower Ramnagar,
Coimbatore- 641009. Phone : +91-422-4206205, Mobile : +91-99442 00078

Hopes College - Coimbatore

437 A, Kamarajar Road, Opp. More, Hopes College, Coimbatore- 641004.
Phone : +91-422-4276205, Mobile : +91-96000 81201

