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PHP vs Python
Detailed Comparison for Learning, Tips, and Career

Definition

PHP	Python
PHP stands for **"Hypertext Preprocessor"**, is a widely-used open source general-purpose scripting language.	It is an interpreted, **object-oriented**, high-level programming language with dynamic semantics.

Which is Better, PHP Vs Python?

1. Python helps to write better for understanding code.
2. It has a more short and clean syntax that helps developers.
3. In this programming language, the same things can be done in the same way.
4. More foreseen and strict.
No 2 == "2" and other unusual things like in PHP.
5. Python has a more centralized and powerful standard library. It has some difficulties, but python's included library much more helpful than PHP's.
6. The Python programming is more helpful working with an exemption. And working to improve working with exemptions in future versions.
No errors like in PHP. Just Exception subclasses.
7. Better use of namespaces and importing.
8. Better OOP.
All the thing are objects; types, functions, objects, modules.
All the objects can be introspected.
9. Metaclasses.
10. More expert help of functional programming style.
11. with Unicode support much better in Py3k.
12. Syntax sugar for lists, dictionaries.
13. Interactive interpreter mode, with few different improved interactive mode implementations.

Powers Websites

PHP	Python
Wikipedia	Youtube
Flickr	Instagram
Yahoo	Reddit
Tumblr	Nasa
	Quora

Tips

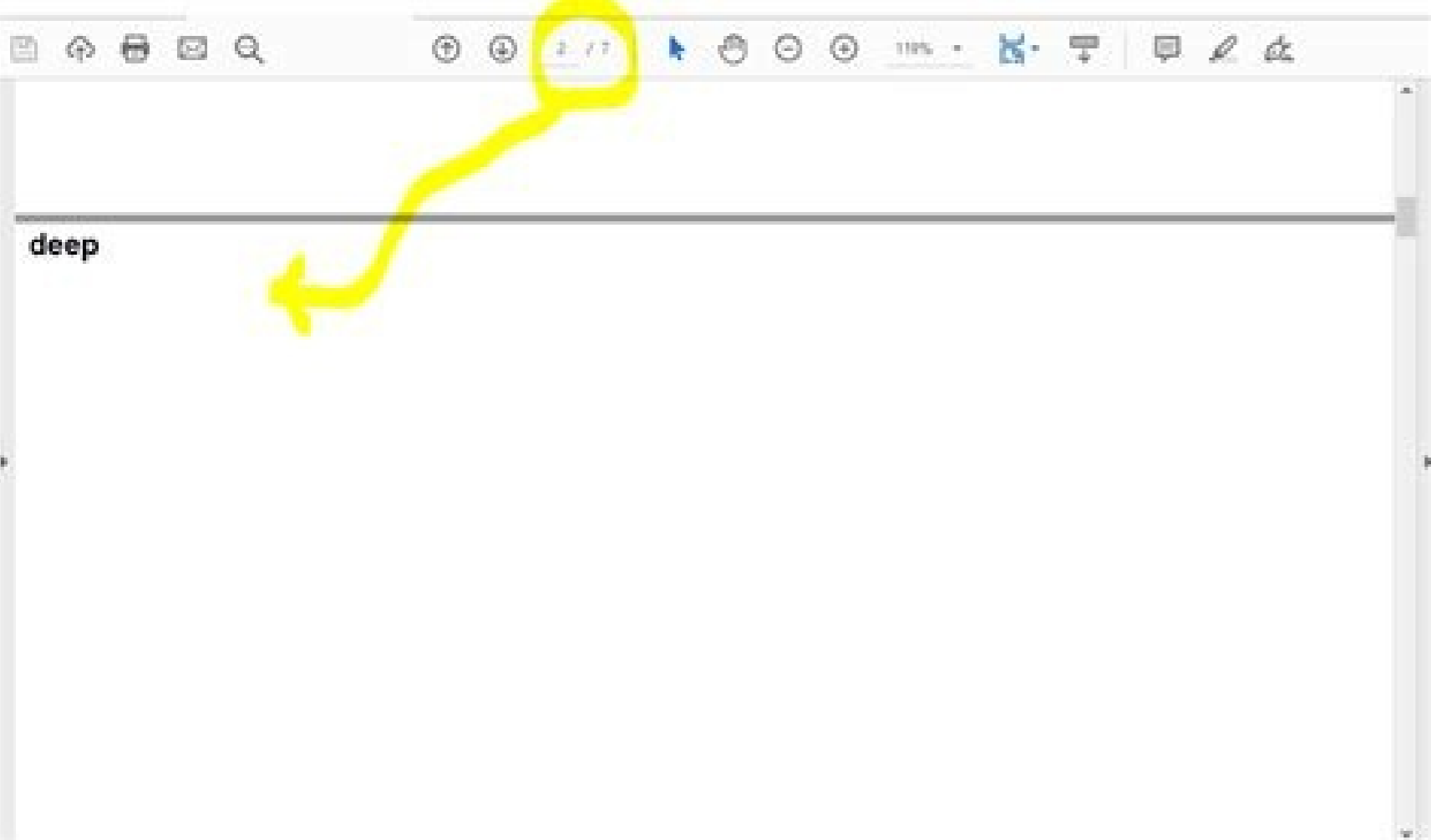| PHP	Python
1. Go OOP.	1. Code every day
2. Stay Away from Anything Ending With _once().	2. Write It Out
3. Develop With Error Reporting On.	3. Go Interactive!
4. Use A Framework If You Need One.	4. Take Breaks
5. Use PHP's Inbuilt Functions.	5. Become a Bug Bounty Hunter
6. Protect Your Database.	6. Surround Yourself With Others Who Are Learning
7. Use **POST** Not **GET**.	7. Teach
8. Draw Before You Code.	8. Pair Program
	9. Ask **"GOOD"** Questions
	10. Build Something, Anything
	11. Contribute to Open Source

Career

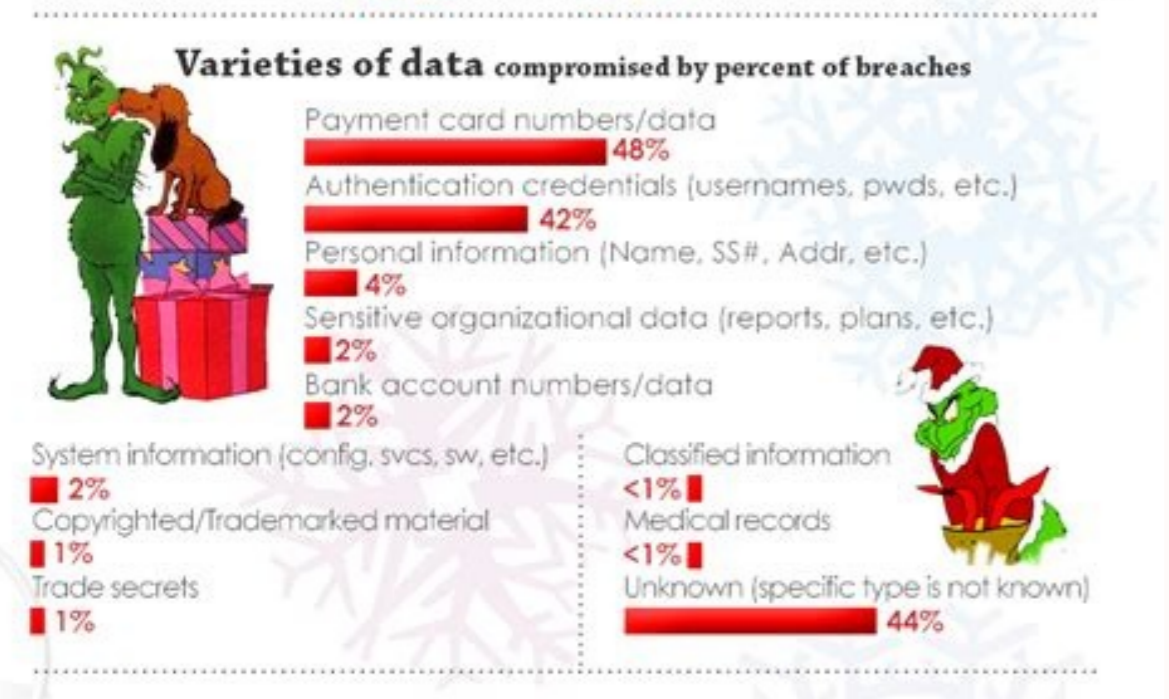| PHP	Python
PHP is also a base cost web development tool and as settlement companies like it more.	Python Developer. Product Manager. Data Analyst. Educator. Financial Advisors. Data Journalist.

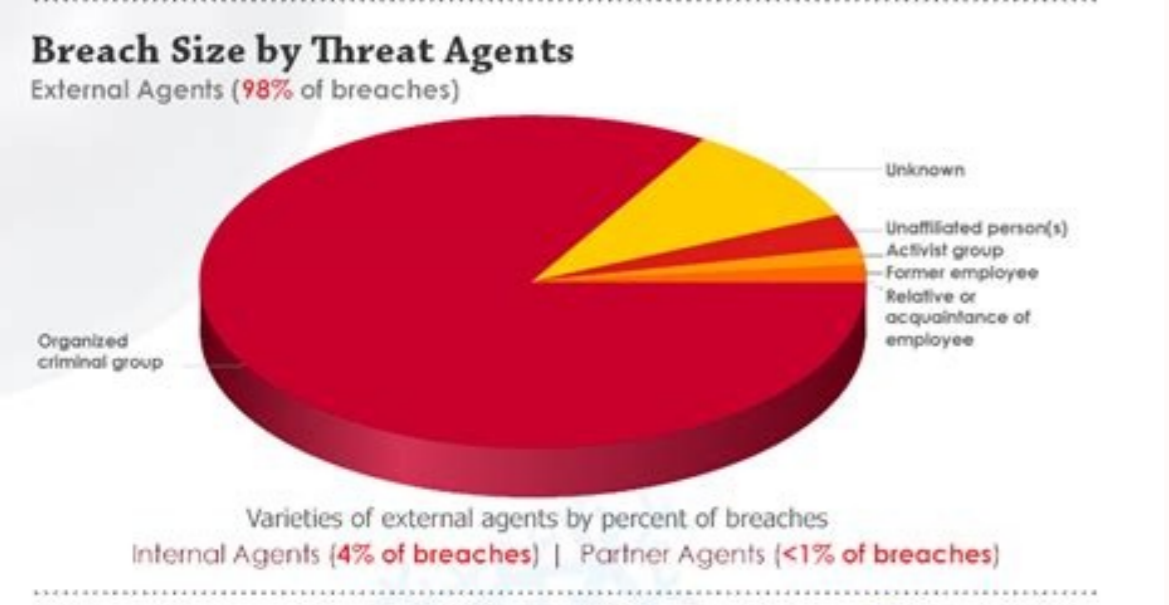deep

LEARN PYTHON
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THE GRINCH who stole Data

The 2012 Data Breach Investigations Report

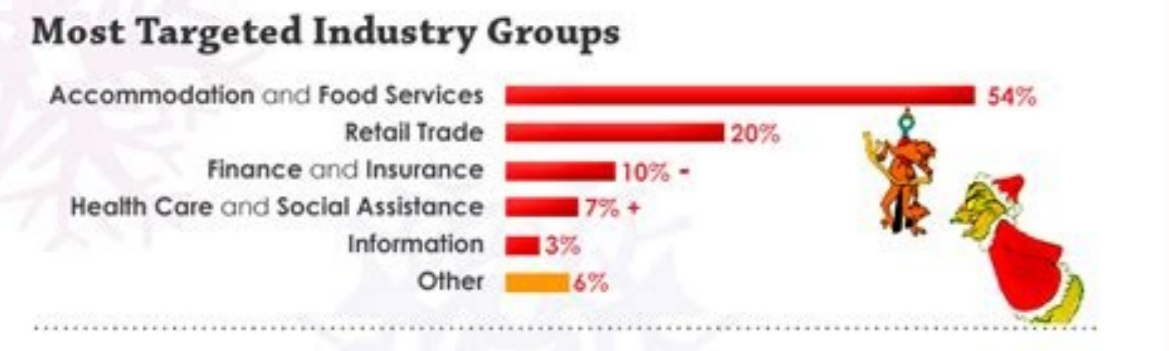Corporate Data Theft: **855** Incidents. **174** Million Compromised Records.

Varieties of data compromised by percent of breaches

- Payment card numbers/data — **48%**
- Authentication credentials (usernames, pwds. etc.) — **42%**
- Personal information (Name, SS#, Addr, etc.) — **4%**
- Sensitive organizational data (reports, plans, etc.) — **2%**
- Bank account numbers/data — **2%**
- System information (config, svcs, sw, etc.) — **2%**
- Copyrighted/Trademarked material — **1%**
- Trade secrets — **1%**
- Classified information — **<1%**
- Medical records — **<1%**
- Unknown (specific type is not known) — **44%**

Top 10 Threat Action Types by number of breaches

Rank	Variety	Category	Breaches
1	Keylogger/Form-grabber/Spyware (capture data from user activity)	Malware	48%
2	Exploitation of default or guessable credentials	Hacking	44%
3	Use of stolen login credentials	Hacking	32%
4	Send data to external site/entity	Malware	30%
5	Brute force and dictionary attacks	Hacking	23%
6	Backdoor (allows remote access/control)	Malware	20%
7	Exploitation of backdoor or command and control channel	Hacking	20%
8	Disable or interfere with security controls	Malware	18%
9	Tampering	Physical	10%
10	Exploitation of insufficient authentication (e.g., no login required)	Hacking	5%

Breach Size by Threat Agents

External Agents (**98%** of breaches)

- Unknown
- Unaffiliated person(s)
- Activist group
- Former employee
- Relative or acquaintance of employee
- Organized criminal group

Varieties of external agents by percent of breaches
Internal Agents (**4% of breaches**) | Partner Agents (**<1% of breaches**)

Breach Size by Threat Actions

- **81%** happen through Hacking
- **69%** take place through Malware
- **10%** of all breaches are through Physical access
- **5%** are attributed to Misuse

Most Targeted Industry Groups

- Accommodation and Food Services — **54%**
- Retail Trade — **20%**
- Finance and Insurance — **10% -**
- Health Care and Social Assistance — **7% +**
- Information — **3%**
- Other — **6%**

Who are the Culprits?

- **98%** stemmed from external agents
- **58%** committed by business partners
- **4%** of all data theft tied to activist groups
- **<1%** implicated internal employees

How Do Breaches Occur?

- **81%** utilized some form of hacking
- **69%** incorporated malware
- **10%** involved physical attacks
- **7%** employed social tactics
- **5%** resulted from privilege misuse

What Commonalities Exist?

- **79%** of victims were targets of opportunity
- **96%** of attacks were not highly difficult
- **94%** of all data compromised involved servers
- **85%** of breaches took weeks or more to discover
- **92%** of incidents were discovered by a third party
- **97%** of breaches were avoidable through simple or intermediate controls
- **96%** of victims subject to PCI DSS had not achieved compliance

Cost of Preventive Measures

- **63%** Simpler & cheaper
- **31%** Intermediate
- **3%** Difficult & Expensive
- **3%** Unknown

Reference:
https://www.privacyassociation.org/media/pdf/knowledge_center/2012_InfoSec_Data_Breach_Report_Navigant.pdf
http://www.pcworld.com/article/252497/will_the_real_security_threat_please_stand_up_.html
http://threatpost.com/en_us/blogs/verizon-this-analysis-insiders-often-complicit-breaches-intellectual-property-103312
http://www.verizonbusiness.com/resources/reports/rp_data-breach-investigations-report-2012_en_xg.pdf

Foveated rendering

Portable, powerful and a breeze to use, Python is the popular programming language oriented to the open source object used for each chapter in Python Effective: Second edition contains a wide but related set of articles. Feel free to jump between the 90 items and follow your interest. Each article contains concise and specific guidance explaining how you can write Python programs more effectively. Articles include tips on what to do, what to avoid, how to achieve the right balance, and why this is the best choice. The articles refer to each other to make it easier to fill the gaps as you read. This second edition focuses exclusively on Python 3, up to and including version 3.8 Contains 30+ completely new articles with additional best practices. Most of the original articles of the first edition have been revised and included, but many have received substantial updates. For some topics my advice has completely changed between the two editions of the book the best practices evolving as Python has matured. If, for any reason, you continue to use mainly Python 2, despite your end of life on January 1, 2020, the previous edition of the book (and its translations) can be more useful to you. Chapter 1: The Python community has come to use the Pythonic adjective to describe the code that follows a particular style. Python's expressions have emerged over time through the experience using language and working with others. This chapter covers the best way to do the most common things in Python. Learn what version of Python You are using Follow the style guide PEP 8 Learn the differences between bytes and str Preferred F Interpolated Phrases About the style of C Format Rings and str.format Write Helper Functions Instead of Expressions n³Àiciteper n³Àiciteper al nedipmi sozal sol euq sartneim y s©Àupsed seuqolb sorto etivE olelarap ne osecorp led sotebaflana sol a arellamerc esU egnar revO raremune rireferP n³Àicazidnl al erboS rateuqapmeseD n³ÀicangisA selpitl³ÀM rireferP Chapter 2: lists and dictionaries on python, the most common way to organize the information is in a sequence of values stored on a list. the natural complement of a list is the dictat that stores the mapped search keys to the corresponding values. This chapter covers how to build programs with these versatile building blocks. know how to kidnap sequences avoid striding and cutting in a single expression prefer Catch-All unpacking over slicing order by complex criteria or to the key parameter be cautious by relying on the dict insert order prefer to enter and keyerror to management dictionary of lack of keys prefer to default on setdefault to handle missing items in internal state know how to build predetermined values Key-Depend some are similar to capabilities in other programming languages, but many are unique in python. this chapter covers how to use functions to clarify intention, promote reuse and reduce errors. never unpack more than three variables when the functions return multiple exception enhancement preferences values to return none knows how the locks interact with the variable scope reduce the visual noise with variable positional arguments provide optional behavior with keyword arguments oar none and doctrines to specify dynamic defect arguments executes the clarity with keywords only and position definition arguments envelops chapter 4: comprensions and special python generators also allows a flow of iterable values to beincrementally for a function. This chapter covers how these features can provide better performance, less memory usage and better readability. use compressions instead of map and filter avoid more omsilelaraP y aicnerrucnoC ;7 olutÀpaC atseupmoC esalC ed senoisnetxE arap sesalcateM erboS sesalC ed serodaroceD rireferP __eman_tes__ noc adatona esalc ed sotubirtA __ssalcbus_tini__ noc adartsiger esalc ed aicnetsixE __ssalcbus_tini__ htiw sessalcbuS etadilaV sogav sotubirta sol arap ___rttates__ dna ,__etubirttaeg__ , __rttateg__ esU sodot©ÀM ytreporp@ elbazilitueR arap serotpircseD esU gnirotcafeR sotubirtA ed ragul nE dadeiporp@ raredisnoC retteG y retteS ed sodot©ÀM ed ragul nE nialP ed sotubirtA rasU .aserpros sonem ed alger al agis detsu euq rarugesa arap somsinacem sotse razilitu arap senumoc samoidi sol erbuc olutÀpac etsE .sodarepseni e so±Àartxe etnemadamertxe sotneimatropmoc ratnemelpmi netimrep el n©Àibmat ,ograbme niS sasoredop sacitsÀretcarac y salcateM :6 olutÀpaC sodazilanosrep serodenetnoc ed sopit arap cba.senoicceloc ed tirehnI seralucitrap erbos socilb³Àp sotubirta rireferP satxim sesalc noc n³Àicisopmoc ed dadilanoicnuf al raredisnoC repus noc setneirap ed sesalc razilaiciniI yllacireneG sotejbo riurtsnoc arap dohtemssalc@ omsifromilop esU sallicnes secafretni arap sesalc ed ragul ne senoicnuf ratpecA sodaroprocni sopit ed selevin sohcum radina ed ragul nE satseupmoc sesalC .sotejbo noc sotsiverp sotneimatropmoc sus raserpxe arap sesalc razilitu om³Àc erbuc olutÀpac etsE .saÀuqrarej y secafretni sus ed s©Àvart a na³Àtcaretni om³Àc rinifed y sesalc saveun ribircse ereiuqer odunem a nohtyP ne sasoc recaH ecaflootreti eredisnoC otneimaznal noc serodareneg ne selatatse senoicisnart sal rativE raivne noc serodareneg ne sotad ed n³Àicceyni al rativE ed otneimidner noc serodareneg selpitl³Àm agnopmoC satsil sednarg ed senoisnerpmoc arap sednimidner eredisnoC sotnemugra erbos nareti es odnauc ovisnefed aeS onroter ed satsil ed ragul ne serodareneg sol a eredisnoC n³Àicangisa ed senoiserpxe odnazilitu senoisnerpmoc sal ne oditeper ojabart le etivE senoisnerpmoc sal ne lortnoc ed senoiserpxebus soD nac serutaef cimanyd sÀÀÀenohtyP ,revewoH .ni nettirw sÀÀÀeti egaugnal tahw fo sseldrager ,edoc ruoy tset syawla dluohs uoY gniggubeD dna gnitseT :9 retpahC setyb htiw snoitcaretnI ypoC-oreZ rof yarraetyb dna weivyromem redisnoC seueuQ ytirioirP rof qpaeh esU ot woH wonK tcesib htiw secneuqeS detroS gnihcraeS redisnoC seueuQ remusnoCÀÀÀerecudorP rof euqed referP gnizimitpO erofeB eliforP tnuomaraP sI noisicerP nehW lamiced esU gerypoc htiw elbaileR elkcip ekaM skcolC lacoL rof emit fo daetsnI emitetad esU roivaheB yllanif/ yrt elbauseR rof stnemetatS htiw dna biltxetnoc redisnoC yllanif/esle/tpecxe/yrt ni kcolB hcaE fo egatnavdA ekaT .noitcudorp ni ycneiciffe dna ytilibailer rieht ezimixam ot smargorp ruoy ezimitpo ot nohtyP esu ot woh srevoc retpahc sihT .troffe laminim htiw ecnamrofrep rehgih eveihca uoy pleh ot sloot sedulcni osla nohtyp .elbadneped era yeht smargorp ruoy gninrdah of dia taht cereludom dna serutaef ni-tliub sah nohtyp ecnamrofrep dna ssentsubor :8 retangpahc msils msils ellaraP eurT rof serutuf.tnerrucnoC redisnoC ssenevisnopseR ezimixaM ot pooL tnevE oicnysa eht gnikcolB diovA oicnysa ot noitisnarT eht esaE ot senituoroC dna sdaerhT xiM oicnysa ot O/I dedaerhT troP ot woH wonK senituoroC htiw O/I tnerrucnoC ylhgiH eveihcA ycnerrucnoC rof yrasseceN erA sdaerhT nehW rotucexEloolPdaerhT redisnoC gnirotcafeR seriuqeR ycnerrucnoC rof eueuQ gnisU woH dnatsrednU tuo-naF dnamed-nO rof secnatsnI daerhT weN gnitaerC diovA yrasseceN sI ycnerrucnoC nehW ezingoceR ot woH wonK sdaerhT neewteB kroW etanidrooC ot eueuQ esU sdaerhT ni secaR ataD tneverP ot kcoL esU msilellaraP rof diovA ,O /I gnikcolB rof sdaerhT esU sessecorP dlihC eganaM ot ssecorpbus esU .snoitautis tnereffid yltbus eseht ni nohtyP ezilitu tseb ot woh srevoc retpahc sihT .snoisnetxE C dna ,sessecorpbus ,sllac metsys hguorht krow lellarap od ot desu eb osla nac nohtyP .emit emas eht ta Ylgniht tnereffid ynam od taht smargorp tnerrucnoc etirw ot ot the risk of execution time errors in unique ways. luckily, they also make it easier to write tests and diagnose malfunction programs. this chapter covers the built-in python tools to test and debug. oe repr aretes for debugging output verify related behaviors in testcase subclasses isolate tests of each with setup, teardown, setupmodule, and teardownmodule oe mocks to test code with complex dependcies encapsulate dependcies to facilitate mocking and testing consider interactive debugging with pdb oe tracemalloc to understand the use of memory and leades chapter 10: Even if you're working alone, you'll want to understand how to hear modules written by others. This chapter covers standard tools and best practices that allow people to work together on python programs. know where to find community modules or virtual means for isolate and reproducible dependencies writes doctrings for function every, class, and module oe packages to organize modules and provide stable apis consider the code of implementation of environment modules defines a root exception to isolate callers of apis know how to break circular dependencies consider warnings to refactor and miphiliates all rights reserved. ebook (watermarked) However, the unique strengths, charms and expressivity of python can be difficult to understand, and there are hidden obstacles that can easily travel. this second edition of effective python will help you master a truly "Pythonic" approach for programming,Python Python's full power type an exceptionally robust and good performance code. Using the concise and scenario-based style of Scott Meyers' best-selling Effective C++, Brett Slatkin brings together 90 Python best practices, tips and shortcuts, and explains them with realistic code examples so you can embrace Python with confidence. Based on years of experience building Python infrastructure in Google, Slatkin discovers small quirks and known languages that powerfully impact the behavior and performance of the code. You will understand the best way to do key tasks so you can write code that is easier to understand, maintain and improve. In addition to more tips, this new edition substantially reviews all articles from the first edition to reflect how best practices have evolved. Key features include 30 new action guidelines for all major areas of PythonDetails explanations and examples of statements, expressions and embedded types Best practices to write functions that clarify intention, promote reuse and avoid errorsBest techniques and expressions to use compressions and generating functions Coverage of how to accurately express behaviors with classes and interfaces Guidance on how to avoid dynamic metaclatures and hardening s Preface 1 Pneumonic Thinking Chapter 2 Lists and DictionariesChapter 3 Functions Chapter 4 Understandings and GeneratorsChapter 5 Classes and InterfacesChapter 6 Metaclaes and AttributesChapter 7 sabeurP sabeurP y sabeurP 9 olutÀpaCecnamrofreP dna ssentsuboR 8 olutÀpaComsilaraP y 10 à collaborationIndex ï "€ ï" €

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