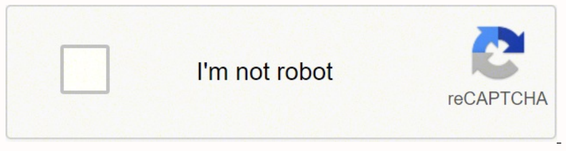

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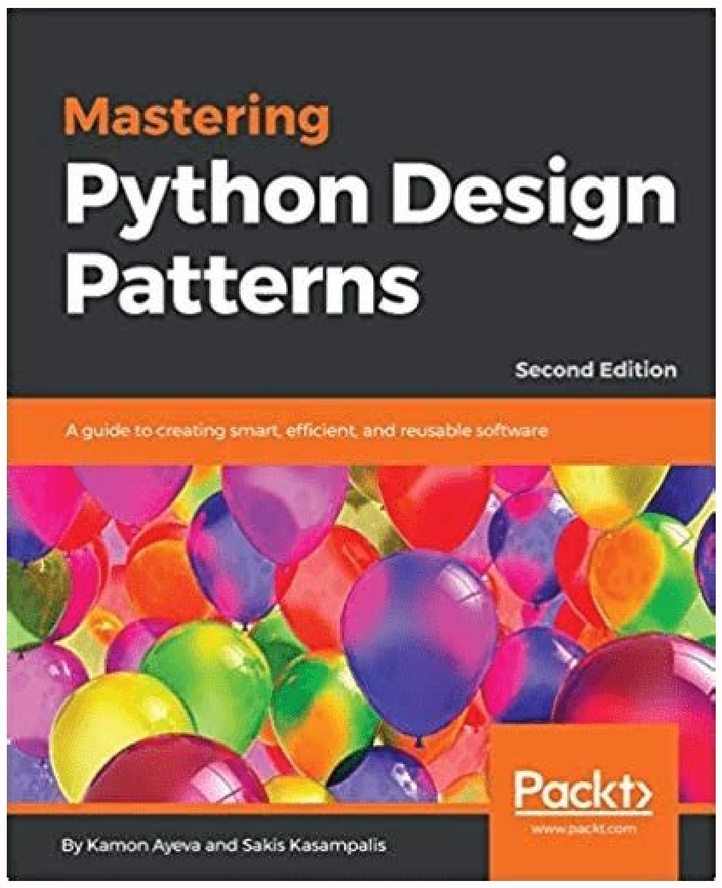

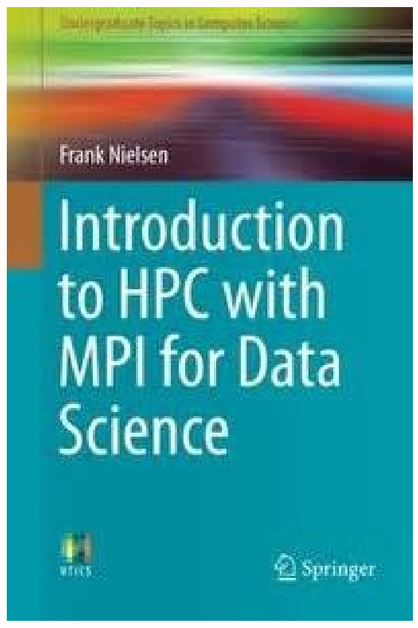

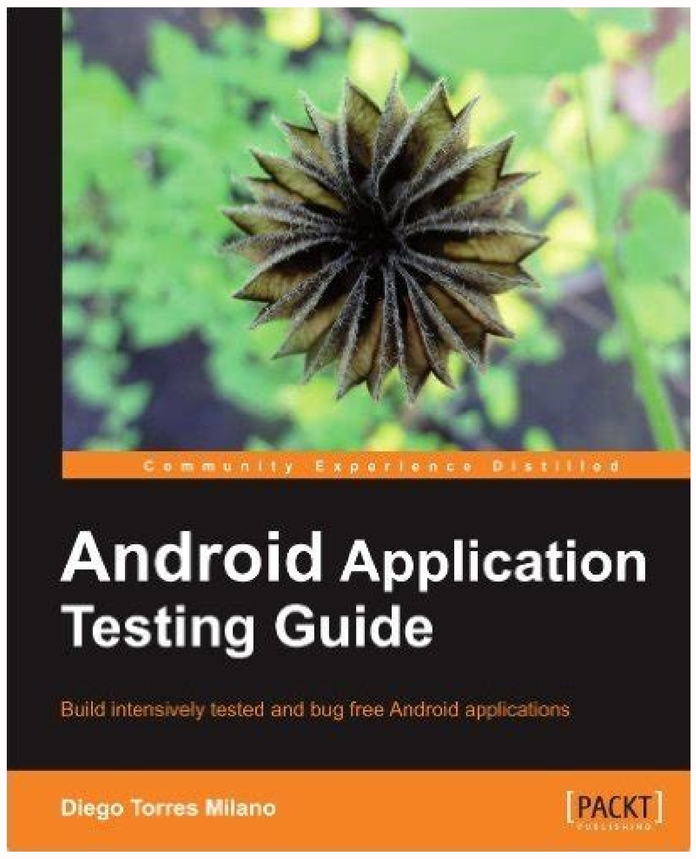

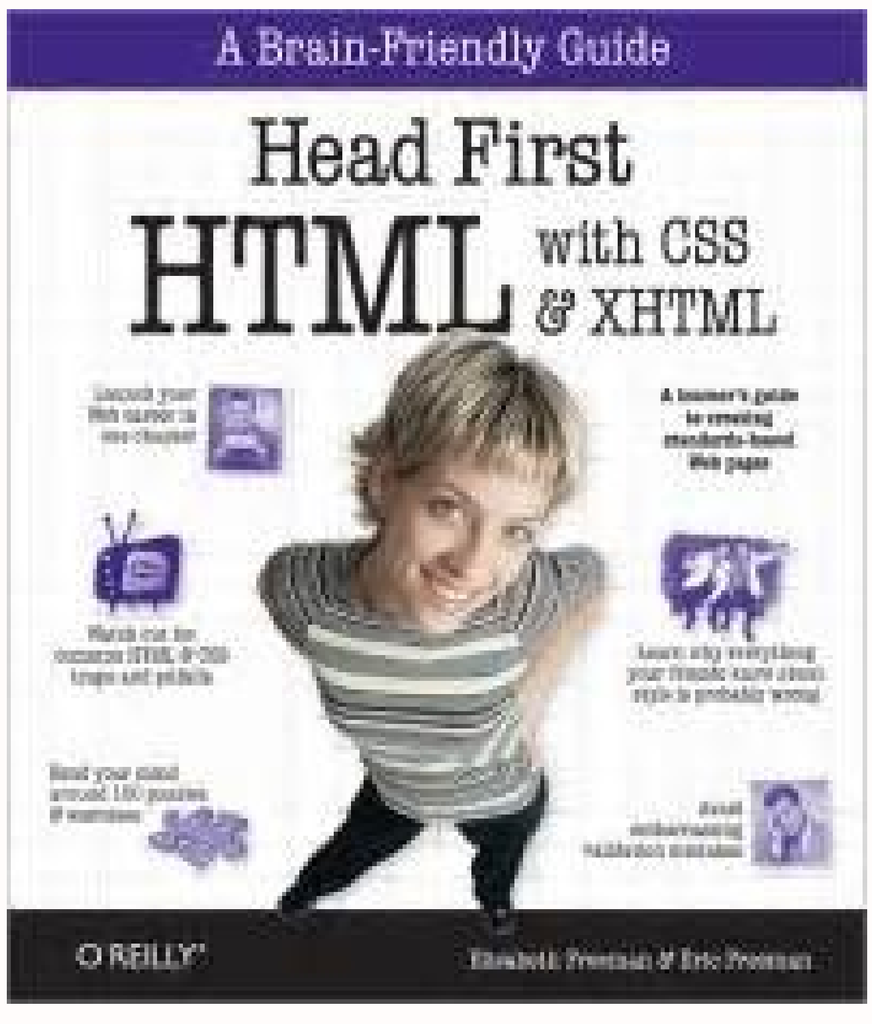

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But the result should be the same: the two directions must be different. We added the Wizardworld class, where we use our assistant and orca lessons. The code is as follows: Class FrogWorld: Def __init __ (me, name): Print (auto) self.player_name = Def __STR name __ (me): Back '\ t -------- Frog World - ------ - 'defk_character (me): Return the frog (Self.Player_Name) def Make_obstacle: Return the error () The Wizardworld game is similar. We define the JSON Data Extractor class (JsondataExtractor). In the factory design pattern, a client (which means client code) requests an object without knowing where the object is (ie, what class is used to generate). We will decide what game to create and throw in execution time, depending on the user's entry. First, there is an exception message when trying to access a SQLite file (.SQ3): So, we obtain the following result from processing the film file (JSON): Finally, we get this result from processing the person's XML file to find People whose surname is a liar: Notify that although JsondataExtractor and XMLDataExtractor have the same interfaces, which is returned parsed_data () is not handled uniformly. The improvement of performance in this chapter was not demonstrated. Another case of use that is worth mentioning is related to the improvement of the performance and use of the memory of an application. They are shared among the programmers and continued to improve over time. On the basis of analysis, the title can be shown, the year, the name of the director and the film of the film (when the value is not empty), as follows: JSON_FACTORY = EXTRACT_DATA_DESFROM ('data / movies.json') json_data = json_factory.parsed_dataprint (fzefon: {len (json_data)} movies') for movies in JSON_DATA: Print (F "Title: {film ['Title']}") OR = ['Year '] If the year: Print (F " Year: {Year} ") Director = Film ['Director'] Yes Director: Print (F" Director: {Director} ") GENER = Movie ['Genre'] Yes Genre: Print (F" Genre: {genre} ") Print () The final part shows you to work with XML files using the mÃ© Todo factory. To demonstrate the abstract ³ of the factory, reuseÃ© one of my favorite examples, included in the book, Python 3 Patterns, Recipes and Idioms, by Bruce Eckel. The only difference is that the magician fights monsters like jobs instead of eating bugs! This is the definition ³ the Wizard class, which is similar to the Frog class: Class Wizard: def __init__(self, name): self.name = name def __str__(self): return self.name def interactive_with(self, obstÃoculo): act = obstÃculo.action() msg = f'{self} wizard fights {obstÃculo} and {act}!' print(msg) ³, the definition ³ the Ork class is as follows: Ork class: def __str__(self): return 'an evil work' def action(self): return 'mata' We also need to define the WizardWorld class, similar to the FrogWorld we discussed; the obstacle, in this case, is an instance of Ork: WizardWorld class: def __init__(self, name): print(self) self.player_name = name def __str__(self): return '\tâ Wizard World â ' def make_character(self): return Wizard(self.player_name) def make_obstÃculo(self): return Ork() The GameEnvironment class is the main entry point for our game. You can get as far as you want; create many obstacles, many enemies, and anything else you like. There is an exception ³ occurs if you write and run the ³ in the Python Read-Eval-Print Loop (REPL)Â¢ or simply Â , the interactive prompt Â but that is a specific REPL optimization ³ not normally occurring. The whole factory is also useful when you want to unlink object creation ³ object use. Every user needs a good name, and in our case, the name is given by the user at run time ³ n. Used to create model instances that support test-specific attributes. An abstract factory takes care of the part of creation³ .dlroWgorF .dlroWgorF amall eS .sotejbo ed n³Ãicaerc ed osecorp le racifilpmis se acirb¡Ãf anu ed s¡Ãrted aedi aL .ogeuj eats it: class Bug: def __str__(self): return 'a bug' def action(self): return 'eats it' The FrogWorld class is an abstract factory. There are several categories of design patterns used in object-oriented programming, depending on the type of problem they address and/or the types of solutions they help us build. We also add our wrapper for handling exceptions, the extract_data_from() function. If the age is not valid, it returns a tuple with the first element set to False. For this reason, it is advised that you work with human-readable files, unless there are other restrictions that do not allow it (mainly unacceptable performance and proprietary binary formats). The model that is assembled by the machinery is configurable and easy to change at any time. Imagine that we are creating a game or we want to include a mini-game as part of our application to entertain our users. The example focuses only on XML and JSON, but adding support for more services should be straightforward. Publication date: August 2018 Ã Â Design patterns are reusable programming solutions that have been used in various real-world contexts, and have proved to produce expected results. How old are you? The property decorator is used to make parsed_data() appear as a normal attribute instead of a method, as follows: class JSONDataExtractor: def __init__(self, filepath): self.data = dict() with open(filepath, mode='r', encoding='utf-8') as f:self.data = json.load(f) @property def parsed_data(self): return self.data The XMLDataExtractor class parses the XML file and has a parsed_data() method that returns all data as a list of xml.etree.Element as follows: class XMLDataExtractor: def __init__(self, filepath): self.tree = etree.parse(filepath) @property def parsed_data(self): return self.tree The dataextraction_factory() function is a factory method. In the next chapter, we will discuss the builder pattern, which is another creational pattern that It will be used to refine the creation of complex objects. You could consider trying it as a good exercise. The entire interact_with () is used to describe the interaction of the frog with an obstacle (for example, an error, a puzzle and other frogs) as follows: Class Frog: Def __init__ (Self, Name): Self. Name = Name Def __STR__ (Self): Return Self.Name Def Interact_with (Self, Obstacle): ACT = Obstacle.action () MSG = F '{Self} The frog find {obstacle} and {ACT}!' Print (MSG) There may be many different types of obstacles, but for our example, an obstacle can only be an error. The data comes in many ways. Let's start with the children's game. Find a SQLite file, or create yours and prove it. We are not paired / linked to a specific class when we create an object; We only provide partial information about what we want to call a function. Maintain separate creation methods and their genetic names (for example, make_character () and make_obstacle ()) allows us to change the active factory (and therefore the active game) dynamically without any change of Code Describe the problem, the solution, when applying it and its consequences. The classic example is the ability to change the appearance and sensation of an application (for example, Apple-Like, Windows-Like, etc.) for the user while the application is in use, without the need to finish it and restart it . And parts of your behavior can be customized using attributes such as MAX_LENGTH or REQUIRED (J.MP/DJangofac). In his book, the four band has 23 designer patterns, divided into three categories: creative, structural and behavioral. The answer is that we usually begin with the factory of fact that it is more simple. The whole PLAY () starts the interaction between the created Hero and the obstacle, as follows: GameEenvironment class: Def __init__ (Self, Factory): Self.hero = :)fles(:)fles(yalp fed)(elcatsbo_ekam.yrotcaf = elcatsbo.fles)(es soibmac ©Âuq¿Â ,NOSJ y LMX sovihcra sol rajenam arap ogid³Âc omsim le etnematcaxe razilitu edeup euq odneinopuS .adilas ed olpmeje nºÃgla somaev y yp.yrotcaf_tcartsba nohtyp odnamoc le odnasu amargorp etse a somemalL ogeuj la raguj arap onrotne ed otejbo le ne)(yalp. a somamalL tnemnorivnEemaG esalc al ogeul y ,atcerroc ogeuj ed esalc al somaicnatsnI oirausu led dade al ed n³Âicnuf ne razilitu ogeuj ed esalc ©Âuq somidiceD dade al y erbmon le arap oirausu led adartne al somenetbO :n³Âicnuf atse ed sotcepsa sol nos setneiugis soL .erawtfoS detneirO-tcejbO elbasueR fo stnemelE :snrettaP ngiseD odalutit ,sedissilV nhoJ y nosnhoJ hplaR ,mleH drahciR ,ammaG hcirE ed orbil la saicarg ralupop se amet etsE .sonretxe soicivres)sorutuf sol sodot a y(sose a etneilc led n³Âixenoc al razilartnec somereuq ,opmeit omsim lA .ralucitrap otxetnoc nu ne amelborp le revloser arap atnemelpmi e atpada es n³Âiculos aL .n³Âicacifidom al y n³Âiccepsni al ,sotad ed oibmacretni le natilicaf ,soiranib sovihcra sol euq razilana ed sotnel s¡Ãm etnemlareneg nos sonamuh rop selbigel sovihcra sol euqnuA .guB y gorF sesalc sartseun somazilitu ednod ,dlroWgorF esalc al somida±ÃA .oirasecen etnematulosba se is ol³Ãs sotejbo soveun odnaerc airomem ed osu le y otneimidner le rarojem edeup acirb¡Ãf ed odot©Ãm nU .)(ega_etadilav n³Ãicnuf al somida±ÃA .³Ãticilos es euq ocits¡Ãlp ed eteuguj le se)odaedlom led s©Ãupsed(adilas al y)ehcoc o otap ,olpmeje rop(somereuq euq eteuguj led erbmon le se adartne al euq le ne acirb¡Ãf ed odot©Ãm nu renet omoc sE .sedutilimis neneit euq sotejbo ed n³Ãicaerc al etnemacig³Ãl apurga acirb¡Ãf ed odot©Ãm adaC .}eman{ emocleWâf(tupni = ega :yrt :)eman(ega_etadilav fed :eugis omoc ,oirausu le rop adad dade al se euq ,alput al ed otnemele odnuges le atropmi son etnemlaer odnauc osac le se ese y eurT ne ecelbatse es alput al ed otnemele remirp le ,neib ¡Âtse dade al iS .adil¡Âv dade anu ©Âd euq oirausu la edip)(ega_etadilav n³Âicnuf aL to support a third format, for example, SQLite? The first part ensures that exception handling is effective, such as def def main(): sqlite_factory = extract_data_from('data/person.sq3') print() The next part shows how to work with the JSON files using the factory method. The addresses are also printed in the output so that we can inspect them. Ã In this chapter, we have seen how to use the factory method and the abstract factory design patterns. Note that it is absolutely fine to create more than one factory method, and this is how it is typically done in practice. Interestingly, when using the factory method, we are not required to know any details about how the resulting object is implemented and where it is coming from. There are two main file categories for storing/retrieving data: human-readable files and binary files. It accepts the factory as an input and uses it to create the world of the game. If we find out that our application requires many factory methods, which it makes sense to combine to create a family of objects, we end up with an abstract factory. When the frog encounters a bug, only one action is supported. Examples of binary files are the .sq3 file format used by SQLite and the .mp3 audio file format used to listen to music. Its main responsibilities are creating the main character and the obstacle(s) in the game. Finally, we have the main() function, followed by the conventional trick for calling it. For example, one factory method might be responsible for connecting you to different databases (MySQL, SQLite), another factory method might be responsible for creating the geometrical object that you request (circle, triangle), and so on. These patterns deal with different aspects of object creation. The factory method centralizes object creation and tracking your objects becomes much easier. It is easier to track which objects are created if this is done through a central function, compared to letting a client create objects using a direct class instantiation. We add the factory function, dataextraction_factory(), obtener la clase de extractor de datos adecuada. Definimos la clase GameEnvironment. En este capÃtulo, discutiremos: El mÃ©todo de fÃ¡brica La fÃ¡brica abstracta Ã El mÃ©todo de fÃ¡brica se basa en una Ãºnica funciÃ³n escrita para manejar nuestra tarea de creaciÃ³n de objetos. Stuart Blackton", "cast":null,"genre":null}, {"title":"Family Troubles", "year":1900, "director":null, "cast":null, "genre":null}, {"title":"Feeding Sea Lions", "year":1900, "director":null, "cast":"Paul Boyton", "genre":null}] The XML file, person.xml, is based on a Wikipedia example (j.mp/wikijson), and contains information about individuals (firstName, lastName, gender, and so on) as follows: We start with the enclosing tag of the persons XML container: Then, an XML element representing a person's data code is presented as follows: John Smith 25 21 2nd Street New York NY 10021 212 555-1234 646 555-4567 male An XML element representing another person's data is shown by the following 555-1234 001 452-8819 female Finally, we close the XML container: We will use two librers that are part of the Python ³ to work with JSON and XML, json and xml.etree.ElementTree, as follows: import jsonimport xml.etree.ElementTree as etree The JSONDataExtractor class parses the JSON file and has a parsed_data() method that returns all data as a dictionary (dict). The molding material used to build plastic toys is the same, but different toys (different shapes or shapes) can be produced using the appropriate plastic molds. The JSON file, movies.json, is an example (found on GitHub) of a dataset that contains information ³ American movies (title, title, director name, manager name, etc.). In this case, we have some input data stored in an XML and JSON file, and we want to analyze it and retrieve some ³ information. We will begin with the first part ³ creative design of the book Gang of Four: the design ³ of the factory. The same machinery is used to stamp the parts (doors, panels, capÃ³, fenders and mirrors) of different models of ³ cars. We run it, passing a couple of meters that provides us with information ³ what we want and, as a result, creates the desired object. We define the XML data extractor class (XMLDataExtractor). But, a question arises: Â How ³ do we know when to use the mÃ© all of the factory versus using an abstract factory? Basically, an abstract factory is a group (magic) of ³, where every single piece of factory is responsible for generating a different type of object. The design ³ of the factory is implemented as a single function³ which does not belong to any class and is responsible for creation ³ a single type of object (a shape, a connection point, ³, etc.). We saw how ³ all of the factory is related to the construction ³ toys, we mentioned how ³ is used by Django Django create different form fields and discuss other possible use cases for it. For each matching person, the ³ name and phone number information is displayed as follows: xml_factory = extract_data_from('data/person.xml')xml_data = xml_factory.parsed_dataliars = xml_data.findall(f".//person[lastName='Liar']")print(f'found: {len(liars)} people') to liars in liars: firstname = liar.find('firstName').text print(f'first name: {firstname}') lastname = liar.find('lastName').text print(f'last name: {lastname}') [print(f"phone number ({p.attrib['type']}):", p.text) for p in liar.find('phoneNumbers')] print() Here is the summary of the implementation ³ n (you can find the ³ in the file factory_method.py): We start by importing the ³ dules we need (json and ElementTree). Its goal is to provide better alternatives for situations where the direct creation ³ objects, which in Python happens within the __init__() function³ is not convenient. One advantage of the abstract factory that is not normally very visible from the user's point of view when using the mÃ© all factory is that it gives us the ability to modify the behavior of our application³ n dinÃ mically (at run³ n time) changing the mÃ© all factory active. We can see that in the practice in the following ³ (file id.py), it creates two instances of the same class, A, and uses the function ³ n id() to compare their memory addresses. We want to include at least two games, one for children and one for adults. Finally, we have the function ³ in main(), followed by the conventional Python trick to call it when invoking this file from the command line. Although it is good to be able to use the same ³ for all extractors, this is not realistic for the most part, unless we use some kind of common mapping for data, which is very often provided by data providers Adds exception handling as follows: def extract_data_from(file_path): factory_obj = None try: factory_obj = = Except Valueerror as E: Print (E) Return Factory_OBJ The MAIN () function shows how you can use the designer model of the entire factory. Ask for the name and age of the user, and decide what game should be played, given the age of the user, as follows: Def Main (): Name = Input ("Hello. Our example of implementation of the factory Abstract is a minigame that shows how we can use many folders related in a single class. It also provides suggestions and examples of implementation. The factory usually have two ways: â € El MÃ © entre Factory, which is a M ... © Everything (or simply a function for a Python developer) that returns a different object by input parameter, and Â "Abstract Factory, which is a group of Factory method used to create a family of related objects. As Example, we implemented a factory of fact that provided access to the XML and JSON files. An example of the factory method of factually used is in the context of a PLA toy construction kit Restus. ') Age = int (Age) except Valueerror as ERR: Print (F "age {AGE} It is not válido, intact again ... ") Return (false, age) Return (TRUE, AGE) ultimate, but not least, the Main () function comes. First, let's look at the data files. The following are the aspects of the main function: we try to extract data from an SQL file (Data / person.sq3), to show how the exception is handled Extra data from a JSON file and analyze the result we extract data from an XML file and analyze The result the following is the type of output (for the different cases) that you will get by calling the Python Factory_Method.py command. We define the Wizard and Work classes for the Wizardworld game. Creative designer patterns are the first category that we will cover along this chapter, and chapters 2, the constructor pattern and chapter 3, others Creatal A generator reduces the complexity of the maintenance of an application to unlock the code that creates an object of the code that uses it. Examples of ed sotnitsid sotejbo sod naerc es euq acifingis setneref id naes airomem ed senoiccerid sal euq ed ohceh lE .amelborp etse revloser arap acirb¡Ãf ed odot©Ãm le somerasU .amelborp le nevleuser euq sesalc y sotejbo ed lareneg n³Ãicisopsid anu se n³Ãiculos aL .NOSJ Â LMX Â :oirausu le rop selbigel sotamrof sod ne somerartnec son ,olpmeje etse nE .)"]'raiL'=emaNtsal[nosrep//."f(lladnif.atad_lmx = srail odnazilitu(raiL odillepa le neneit euq nosrep sotnemele sol sodot racsub arap azilitu es htaPX .)pdmortsnig/pm.j(n³Ãicuceje ed opmeit ne nabeurpmoc es sopit sol euqrop oirasecen se on otse ,nohtyP ne orep ,soÃcav sodot©Ãm noc atcartsba zafretni/esalc anu aÃres atcartsba acirb¡Ãf al ,ocit¡Ãtse opit noc ejaugnel nu nE .)(yrotcaf_gninimatad ed rodenetnoc nu se)(morf_atad_evomer n³Ãicnuf aL)htapelif(rotcartxe nruter))htapelif(tamrof.'}{ ed sotad sol reartxe nedeup es oN'(rorrEeulaV esiar :esle rotcartxEataDLMX = rotcartxe :)'lmx'(htiwsdne.htapelif file rotcartxEataDNOSJ = rotcartxe :)'nosj'(htiwsdne.htapelif fi :)ovihcrAeDatur(yrotcaf_gninimatad fed :arenam etneiugis al ed adartne ed ovihcra led osecca ed atur al ed n³Ãisnetxe al ed n³Ãicnuf ne rotcartxEataDLMX o rotcartxEataDNOSJ ed aicnatsni anu evleuveD .dlroWgorF ogeuj le arap guB y gorF sesalc sal sominifeD :etneiugis le se)yp.yrotcaf_tcartsba ovihcra le ne otelpmoc ogid³Âc le rev(ritucsid ed somabaca euq n³Ãicatnemelpmi al ed nemuser lE)(yalp.tnemnorivne))eman(emag(tnemnorivnEemaG = tnemnorivne dloWdraziW esle 81 < ega fi dloWgorF = emag)eman(ega_etadilav = ega ,tupni_dilav :tupni_dilav ton euq sartneim eslaF = tupni_dilav)" .otelpmoc s¡Ãm olrecah arap ogeuj le rednetxe atnetnI :etneiugis le se otluda nu arap artseum al ed odatluser lE :etneiugis al se etnecseloda nu arap artseum ed adilas aL .bew oiralumrof nu ed sopmac sol raerc arap acirb¡Ãf ed odot©Ãm ed n³Ãrtap le azilitu ognajD ed bew arutcurtse al ,erawtfos led odnum le nE .NOSJ y LMAY ,motA/SSR ,LMX nos sovihcra soL Following Following: Class A: Passif __name__ == '__Main__': A = A () B = A () Print (ID (A) == ID (B)) Print (A, B) Executing the Python ID.PY command on my team team In the following output: FALSE Note that the addresses you see if you run the file are not the same as the addresses you see because they depend on the current memory. Design and allocation. The abstract factory design pattern is implemented as a series of factory methods that belong to a single class and are used to create a family of related objects (the parts of a car, the environment of a game, etc.). In the software category, the Factory_Boy package (provides an abstract factory implementation for creating DJANGO models under test. Here's a quote about the four-book gang's design patterns: a design patron systematically names, motivates, and explains a general design that addresses a recurring design problem in object-oriented systems. Since the abstract factory pattern is a generalization of the factory method pattern, it offers the same benefits, facilitates the tracking of an object creation, decoupling the creation of objects from the use of the object, and gives us the potential to improve memory usage and performance of Our application. Let's discuss some examples, use cases and a possible implementation. This means that making changes to the function is easy and does not require any changes to the code that uses it. The abstract factory design pattern is a generalization of the factory method. The forms module, included in Django, supports the creation of different types of fields (e.g. Charfield, Email Field, etc.). As an illustration, here is a snippet that a developer might write for a form (the character form that contains the name of the fields and the birth) as part of the Application UI code for the from Django Import Class Forms (FORMS.FORM): nombre = formulario.cherfield (max_length = 100) nacimiento_date = Forms.datefield (required = false) si usted usted That you can not track the objects created by your application because the code that creates them is in many different places instead of in a single function / method, you should consider using the pattern of the factory of factory. WhiteÂ », Â« CastÂ »: null, Â« GÃ © Nero »: Â» Brief Documental : Â »j. This is actually a large file, but here is an extract, simplified for greater readability, to show how it is organized its contents: [{«title»: Â »After Dark in Central Park», «Year»: 1900 , Â «DirectorâÂ»: null, Â «CastÂ»: null, Â «Genre»: null}, {«title»: Â »Boarding School Girls' Pijama Paradeâ», «Year»: 1900, Â «Director» : null, â «CastÂ»: null, Â «GÃ ©â»: null}, Â «TitleÂ»: Â »Buffalo Billâ € ™ s Wild West Parad», Â «Year»: 1900, Â «Director»: null, «CastÂ»: null, «GÃ ©â»: null}, â € œthew », Â« Year »: 1900, Â« Director »: Null,« CastÂ »: null , «GÃ © Null»: null}, â € œCowns Spinning Hatsâ »,« Year »: Null}, Â« Title »: Â» Capture of Boer Battery by Britishâ »,« Year »: 1900, Â« Director »: Â» James H. The abstract factory is used in automobile manufacturing . Read more Unlock this book with a free 7-day trial. The main Hero is a frog to which he likes to eat bugs. This is important because, in this way, your tests become readable and avoid sharing unnecessary code. We mention how the abstract factory is related to the manufacture of automobiles, how the Django_Factory package for Django is used to create clean testing, and then cover your common use cases. Both patterns are used when we want to track the creation of objects of the use of objects or even improve the performance and use of resources of an application. A different Python code must be used to work with each data extractor. How are you calling? When we create objects using a class direct instance, it is assigned .)esac .)esac .)osac le se on etnemlamron euq ol ,etnemanretni ©Ãhcac ecilitu esalc al euq sonem a(otejbo oveun nu aerc es euq zev adac lanoicida

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