reloaded proof of concept

.8.++64**テオ6カハロ4ソ**.

] t

シス以子494ム+リ氏489カ4千ケニろモフキ:の4

て卉山:丈4千木マ卉ミ〜ム~ コキハ4チソ4くリシソソ

ラモ・カーチ・マーコケーカのコキタン・ハニ共十口名

ジハ舟丈テー。フフロ丈レタレタミ舟ソコーサイ ○○しとしそマ・ムラミケしロフ:カムテハモ卉・代ケヒ:

/ ハチ4チスさネゴニ丈子

| コネマン:升ソマモ山兄ネーフマ+O升|| コるレメケサス=|| * 丈・フラ丈:7

一キムチる山ーキくターハン己子

て8ソケー・ハークジレジフフェで兄子ろサンチ山

三カ共コ+9ハローン:8メ千キのン

キサネソフのかるマニラのソチラるタララハソソオムしチボる:ロソ

ラ8+の142ハチチ卉へる毛兄卉 ・マグボアサ2キ山ム:文8

兄ジケケムソケニ。ロ3ミし。9千ジ+=82ラ3兄山手

○:9兄テ+力卉+ニる舟一く:ラロニ4リリ=4卉モ☆

-レータテニスタイプ 七スジア入くてコムニスタミケメキョレンスト七スジア入くてコムニスタミケメキョレンスト 2 ミケキタしラキタマムラ2 ターしマフ森ンミジテミオモメニュニソアハソ8兄ーショ ジニタ山兄〉+サしモニ4ジタモ2リフテ2サビ68~4でのフ

カムリのピく8=288: デャ+4で、ツー以60ア・フサロレンム。ロー86 ラ37 ヒの6三・メミーミ文ムリキ4兵くメー文6カスアニー

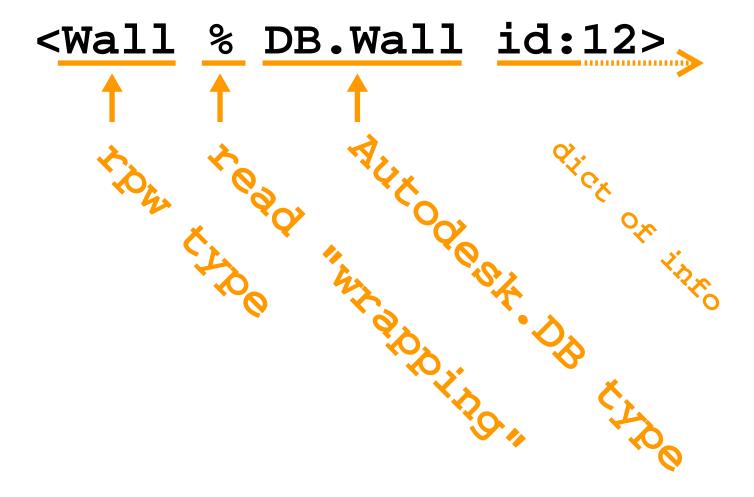
>:ハ千4チススネゴニ女子 4<1アく)ハフミーコンフェモューソナハ支のロソモンにり:+・9カレ ジハ舟丈テー。ファロ丈レタレタミホソコーサイ ⊗しとしチマ・ムラミケしロフ:カムテハモ卉・仟ケヒ:⇒ 兄ジケケムソケニ。ロミミし。全千ジャ=82ラミ兄山キホ **ラ8+の142ハチチ卉へ6手兄卉** ・マグザイフサ2キ山ム:**文8**-ビネタン:代ソマミ山兄ネーフマ+O代一ピるレメケサス=* 文*フラ文:7 44千611ーキくターハンる手 どろ卉をオラミチで**丈:―28ロアく**レ

4サホソフのケミマニラのソチラミタララハソソオムしキボミニン

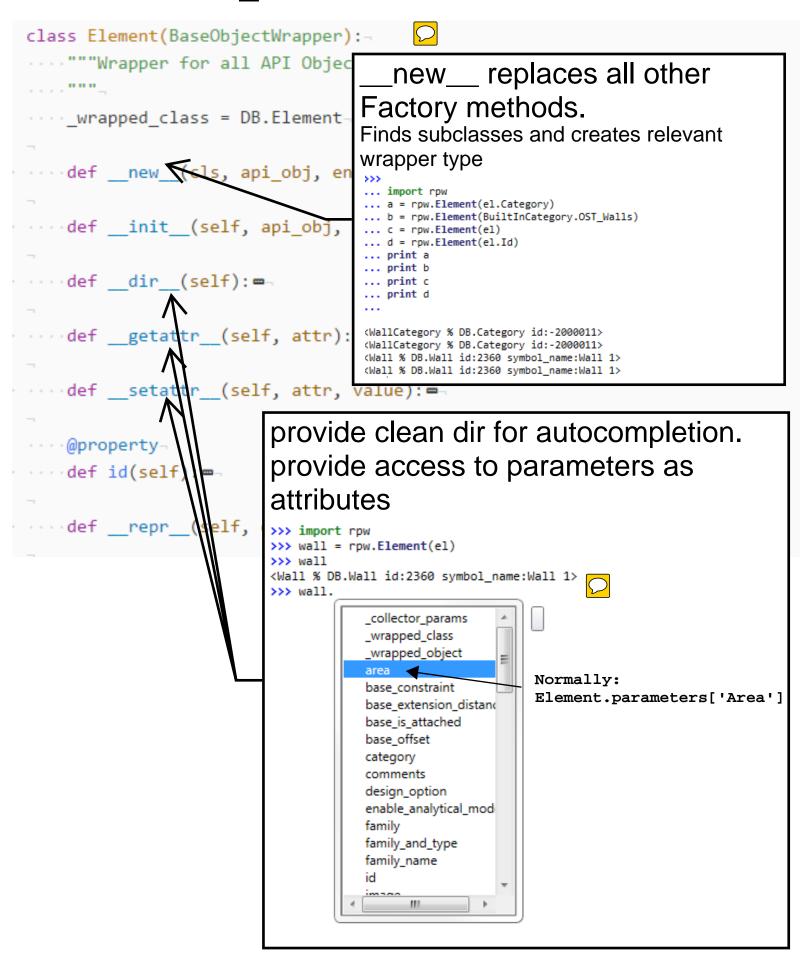
ロくらう兄。~ サイチャミの赤ハレノカ

repr





rpw.Element



rpw.Collector

Extended filters. Filters can change behaviour based on value.

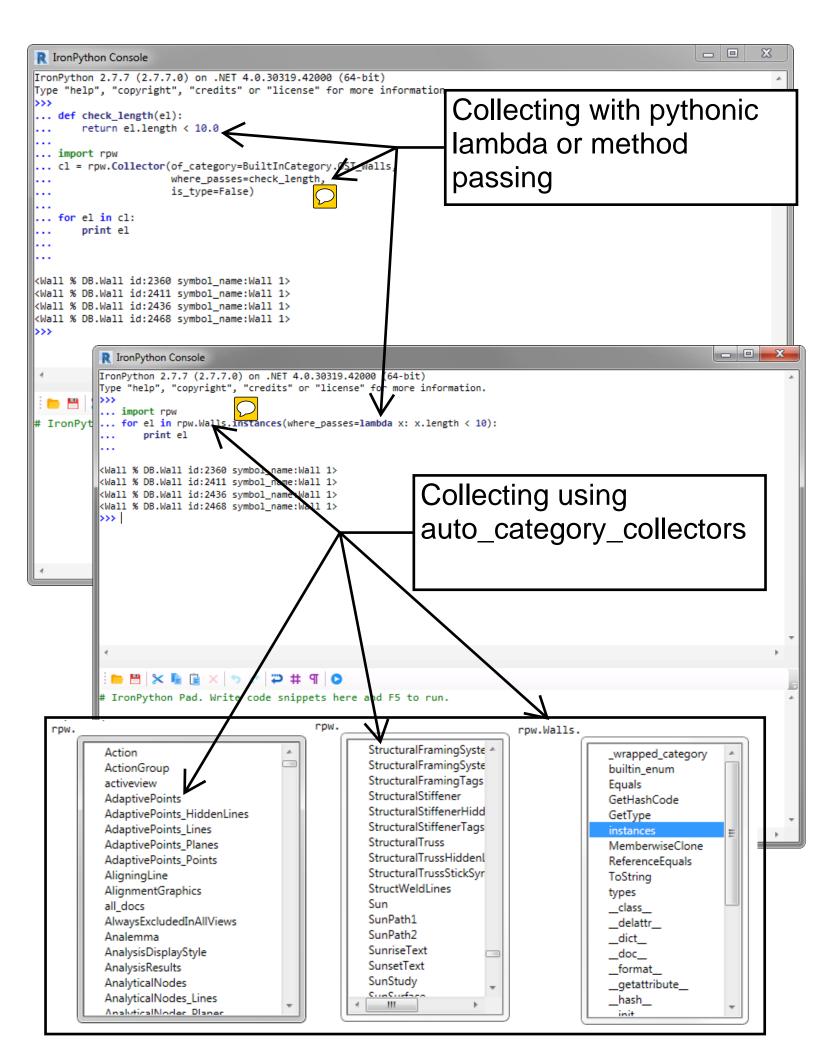
```
class Collector(BaseObjectWrapper):-
  FILTER MAP = {'of_category': 'OfCategory', -
             ·····'of_class': 'OfClass',¬
          ·····'owned by': 'OwnedByView',-
           ····'is_curve_based': 'WhereElementIsCurveDriven', -
                 ∵'is_type': {True: 'WhereElementIsElementType'
                  .....False: 'WhereElementIsNotElementType'},¬
              ·····'is_view_independent': {True: 'WhereElementIsViewIndependent'},¬
              ·····'where_passes': 'WherePasses',¬
               'all': {True: 'WhereElementIsNotElementType'},
                  'all types': {True: 'WhereElementIsElementType'}}-
> · · · def __init__(self, **filters):
□-
> · · · def filter(self, **filters):=-
 ····@property-
> · · · · def elements(self): □ ¬
> · · · def bool (self):■¬
> · · · · def __len__(self): □ ¬
> · · · def __repr__(self, data=None):=-
> · · · def _ iter_ (self): -
 ····@property-
> · · · · def first(self): □-
 ····@property-
> ····def last(self):■¬
```

```
IronPython 2.7.7 (2.7.7.0) on .NET 4.0.30319.42000 (64-bit)
Type "help", "copyright", "credits" or "license" for more information.
>>>
... import rpw
... cl = rpw.Collector(of category=BuiltInCategory.OST Walls)
    for el in cl:
       print el
                                               Collecting all wall
                                               instances and types
kWallSymbol % DB.WallType id:1557 family name:
<WallSymbol % DB.WallType id:1558 family name: Σ</p>
<Wall % DB.Wall id:2360 symbol name:Wall 1>
<Wall % DB.Wall id:2385 symbol name:Wall 1>
<Wall % DB.Wall id:2411 symbol name:Wall 1>
<Wall % DB.Wall id:2436 symbol name:Wall 1>
<Wall % DB.Wall id:2468 symbol_name:Wall 1>
>>>
```

```
>>>
... import rpw
... cl = rpw.Collector(all=True)
... print len(cl)

1751
>>>

Collecting all wall instances of everything
```



Data model

So beautiful! Thank you Gui!

```
class Instance(Element): 
class Symbol(Element): 
class Family(Element): 
class Family(Element): 
class Category(Element): 
class Category(Elem
```

Transactions

Action or Transaction (I'm open to both, Action is shorter though :)

```
class ActionStatus:
class Action(BaseObjectWrapper):
class DryAction(Action):
class ActionGroup(BaseObjectWrapper):
class ActionGroup(BaseObjectWrapper):
```

rpw.ElementCollection

```
class ElementCollection(BaseObject):¬
····# def __new__(\(\)s, mixed_list, enforce_type=None, enforce_types=None):
def __init__(self, mixed_list, enforce_type=None, enforce_types=None): --
····@property-
···def unwrapped_elements(self): --
                                   Collection of elements.
····@property-
· · · def elements(self): □
                                   Selection is a subclass of
···def __len__(self): --
                                   this type.
···def __iter__(self):■¬
···def __getitem__(self, index): --
···def contains (self, mixed list):

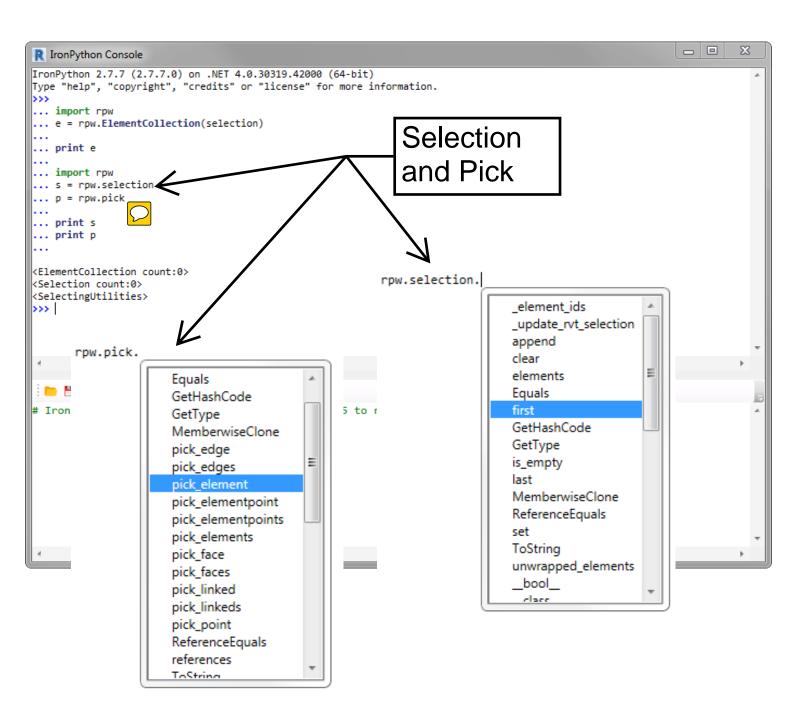
□□
· def bool (self): □
····def repr (self): --
····@property-
····def is empty(self):

---
····@property-
····def first(self):

---
····@property-
···def last(self): □-
····def set(self, mixed_list): □-
···def append(self, mixed_list): --
···def clear(self):

---
```

rpw.selection rpw.pick



rpw.projectinfo

