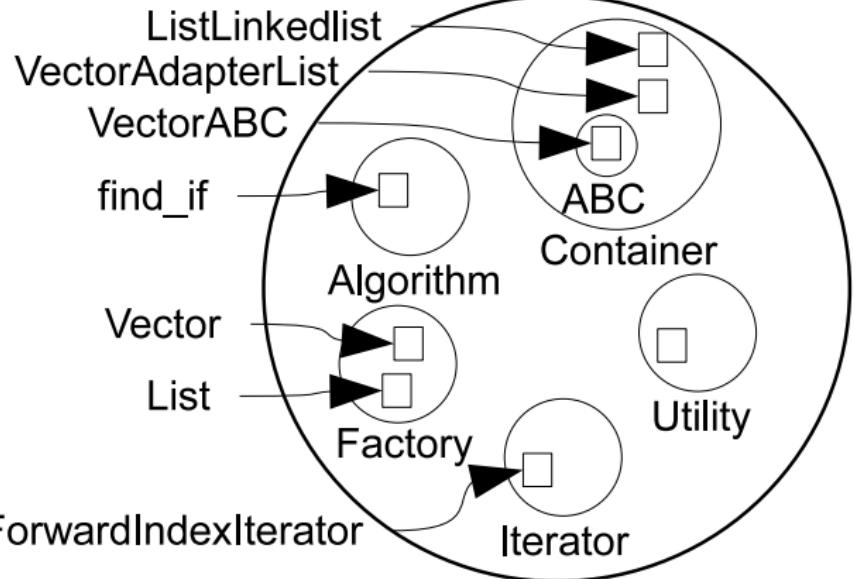


CPH collections



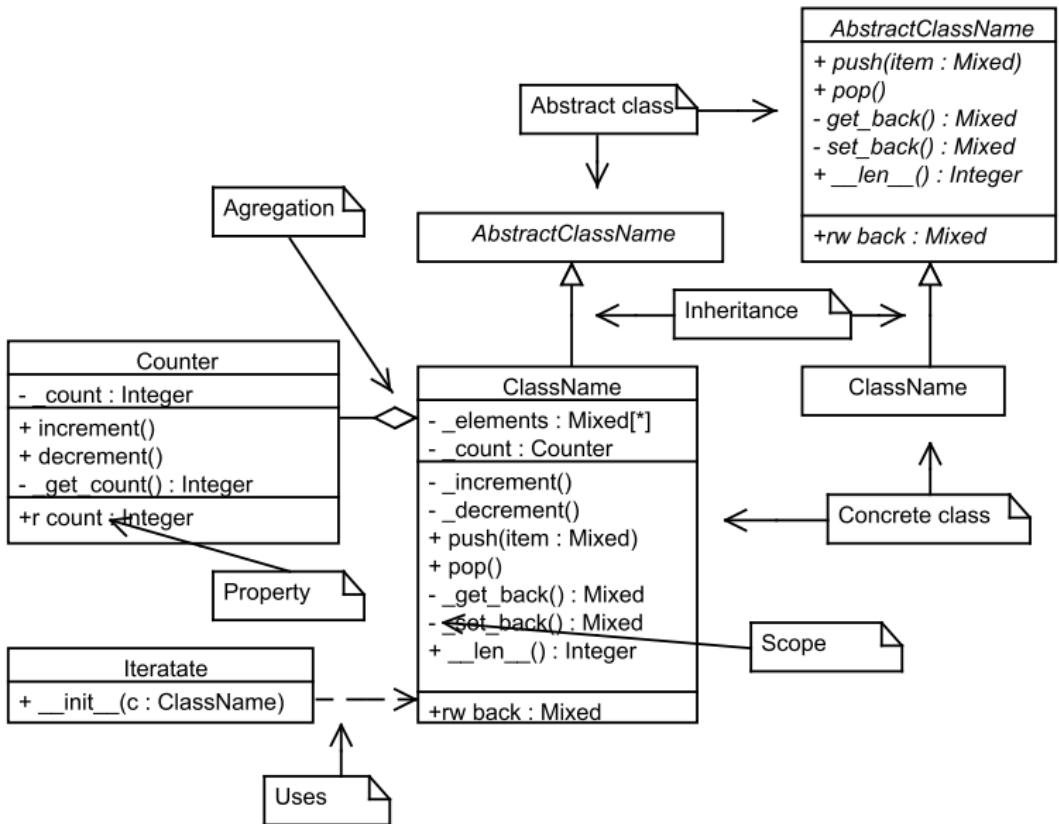
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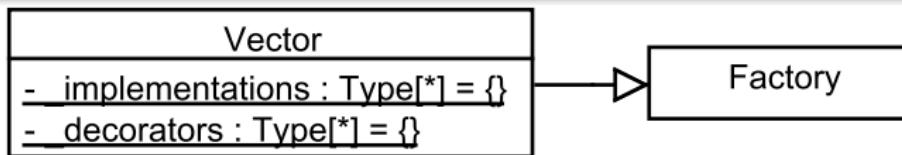


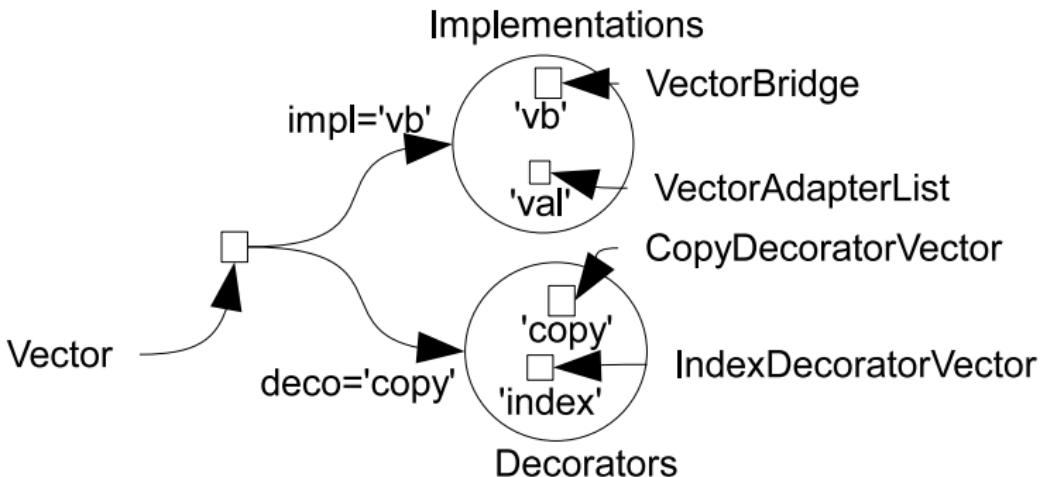
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Factory

```
+ __new__(args*, kwds**) : Mixed
+ register_implementation(id : String, implementation_type : Type)
+ register_decorator(id : String, decorator : Type)
+ get_implementations() : Type[*]
```

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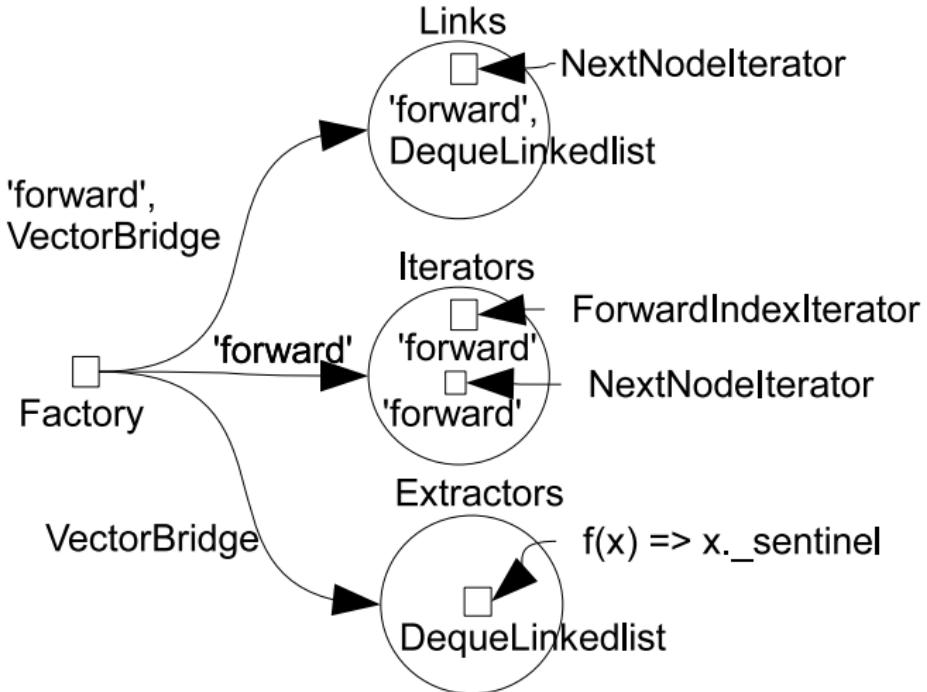




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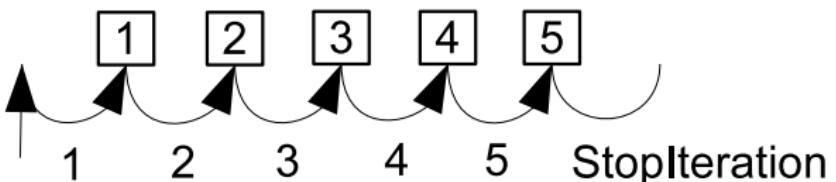
IteratorFactory

<u>- iterator_links</u> = Types[*][*]
<u>- iterator_types</u> = Types[*]
<u>- extractors</u> : Functor[*]
+ <u>__new__(args*)</u> : Iterator
+ <u>register_iterator(concept : String, iter_type : Type)</u>
+ <u>register_extractor(collection_type : Type, extractor : Functor)</u>
<u>- get_data(collection : Collection)</u>
<u>- register_link(concept : String, collection_type : Type, iter_type : Type, data_type : Type = None)</u>

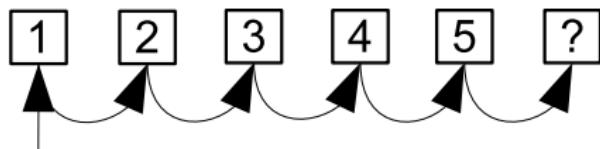


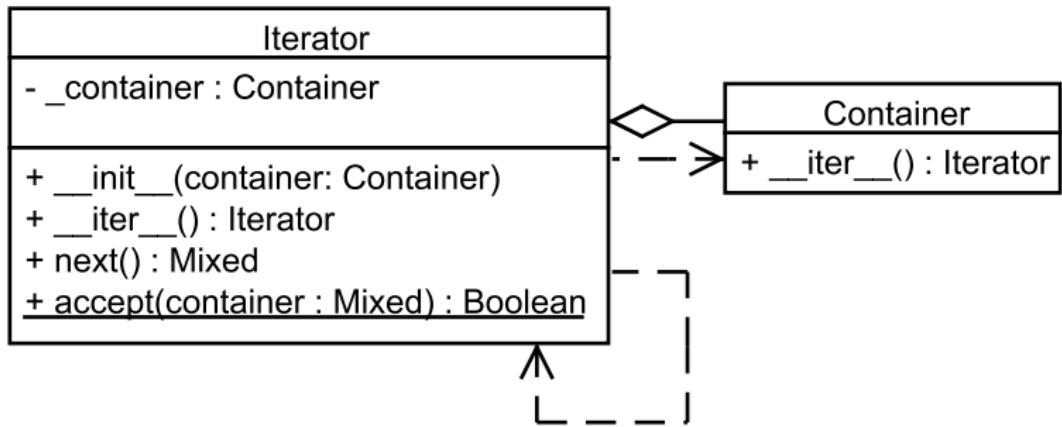
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Python

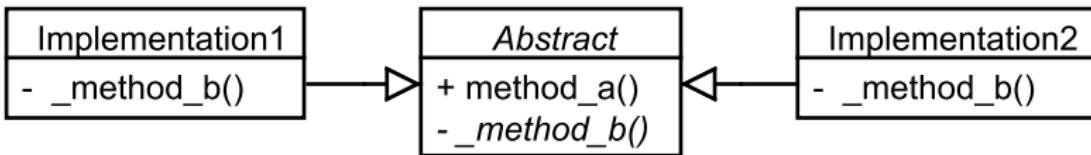


C++





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```
def __ne__(self, a):
    return self < a || a < self

def __eq__(self, a):
    return not (self < a || a < self)

def __gt__(self, a):
    return a < self

def __ge__(self, a):
    return not self < a

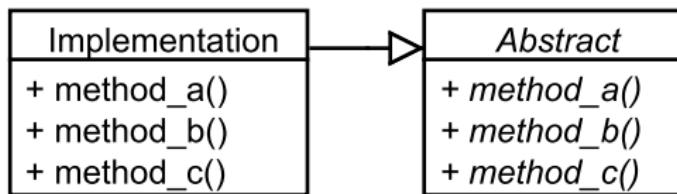
def __le__(self, a):
    return not a < self
```

↓

MinimalComparisonsAbstract

```
+ __lt__(a : Mixed) : Boolean
+ __gt__(a : Mixed) : Boolean
+ __ne__(a : Mixed) : Boolean
+ __eq__(a : Mixed) : Boolean
+ __ge__(a : Mixed) : Boolean
+ __le__(a : Mixed) : Boolean
```

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MinimalComparisonsAbstract



VectorAbstract

```
+ __init__(collection : Collection = [])
+ __del__()
+ __repr__() : String
+ __str__() : String
+ __nonzero__() : Boolean
+ __len__() : Integer
+ __iter__() : Iterator
- _get_size() : Integer
+ resize(n : Integer, value : Mixed = None)
- _get_is_empty() : Boolean
+ clear()
- _get_capacity() : Integer
- _set_capacity(n : Integer)
- __getitem__(index : Integer) : Mixed
- __setitem__(index : Integer, value : Mixed)
- _get_front() : Mixed
- _set_front(value : Mixed)
- _get_back() : Mixed
- _set_back(value : Mixed)
+ push_back(value : Mixed)
+ pop_back()
+ swap(other : VectorImplementation)
+ __lt__(other : VectorAbstract) : Boolean
```



```
+r size : Integer
+r is_empty : Boolean
+rw front : Mixed
+rw back : Mixed
+rw capacity : Integer
```

MinimalComparisonsAbstract



VectorAbstract

```
+ __init__(collection : Collection = [ ])
+ __del__()
+ __repr__() : String
+ __str__() : String
+ __nonzero__() : Boolean
+ __len__() : Integer
+ __iter__() : Iterator
- _get_size() : Integer
+ resize(n : Integer, value : Mixed = None)
- _get_is_empty() : Boolean
+ clear()
- _get_capacity() : Integer
- _set_capacity(n : Integer)
- _getitem_(index : Integer) : Mixed
- _setitem_(index : Integer, value : Mixed)
- _get_front() : Mixed
- _set_front(value : Mixed)
- _get_back() : Mixed
- _set_back(value : Mixed)
+ push_back(value : Mixed)
+ pop_back()
+ swap(other : VectorImplementation)
+ __lt__(other : VectorAbstract) : Boolean
```

+r size : Integer

+r is_empty : Boolean

+rw front : Mixed

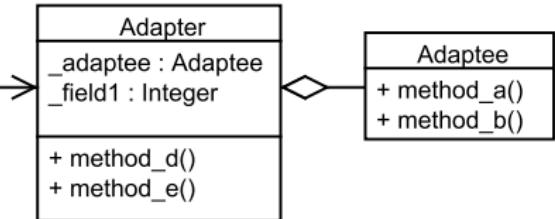
+rw back : Mixed

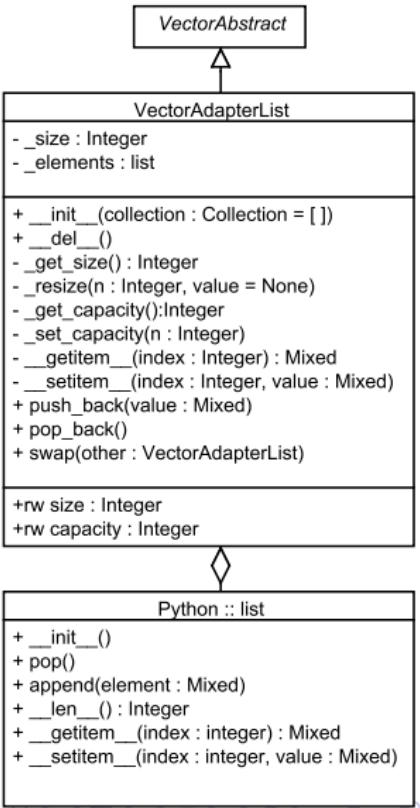
+rw capacity : Integer

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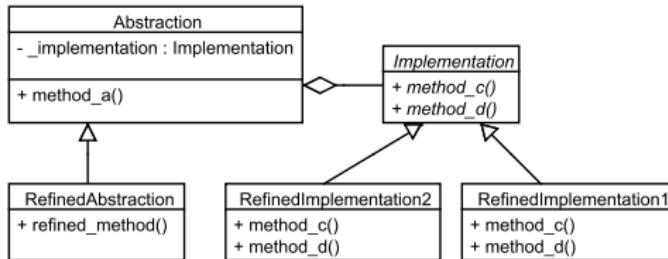
```
def method_d(self):
    if self._adaptee.method_a():
        self._adaptee.method_b()

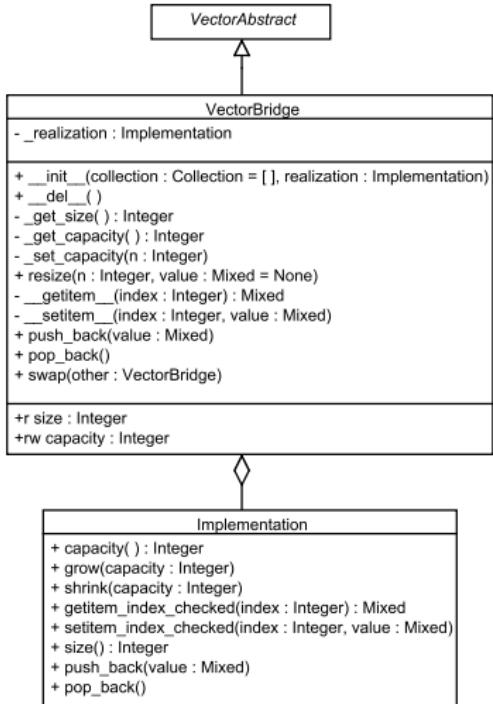
def method_e(self):
    self._field1 += 1
```





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