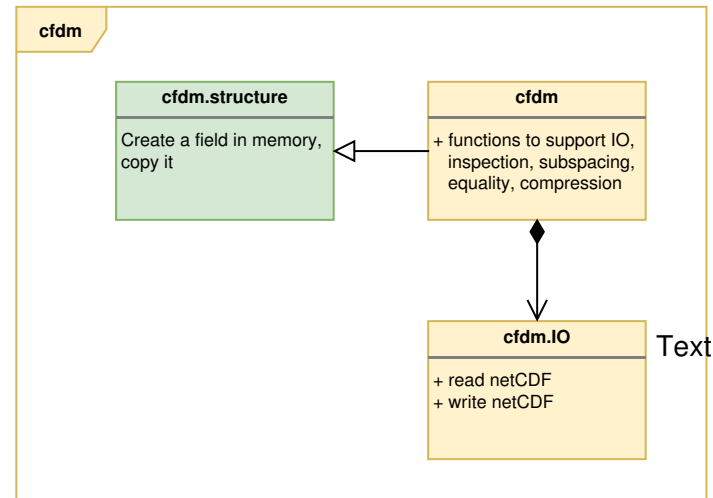


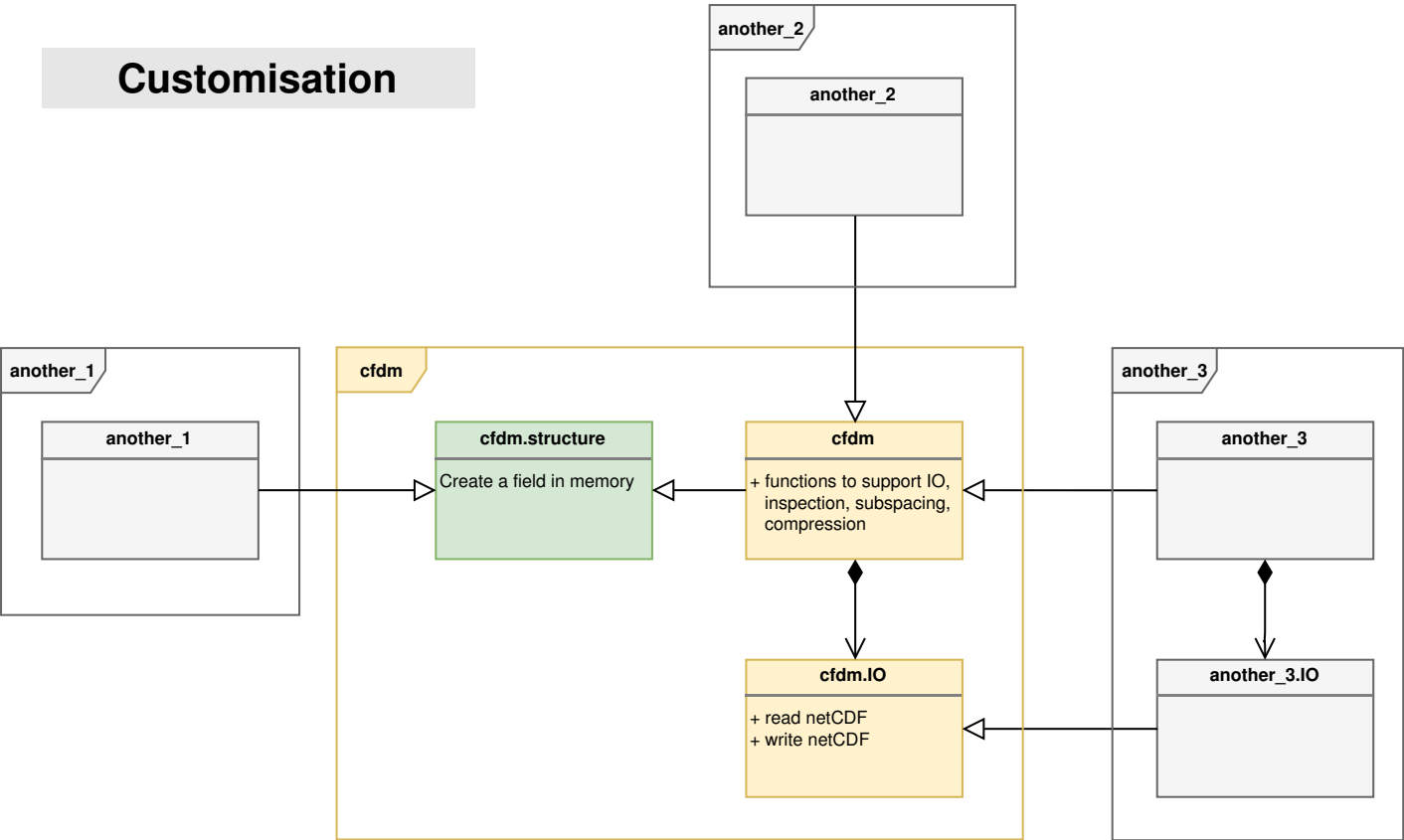
## CF data model reference implementation



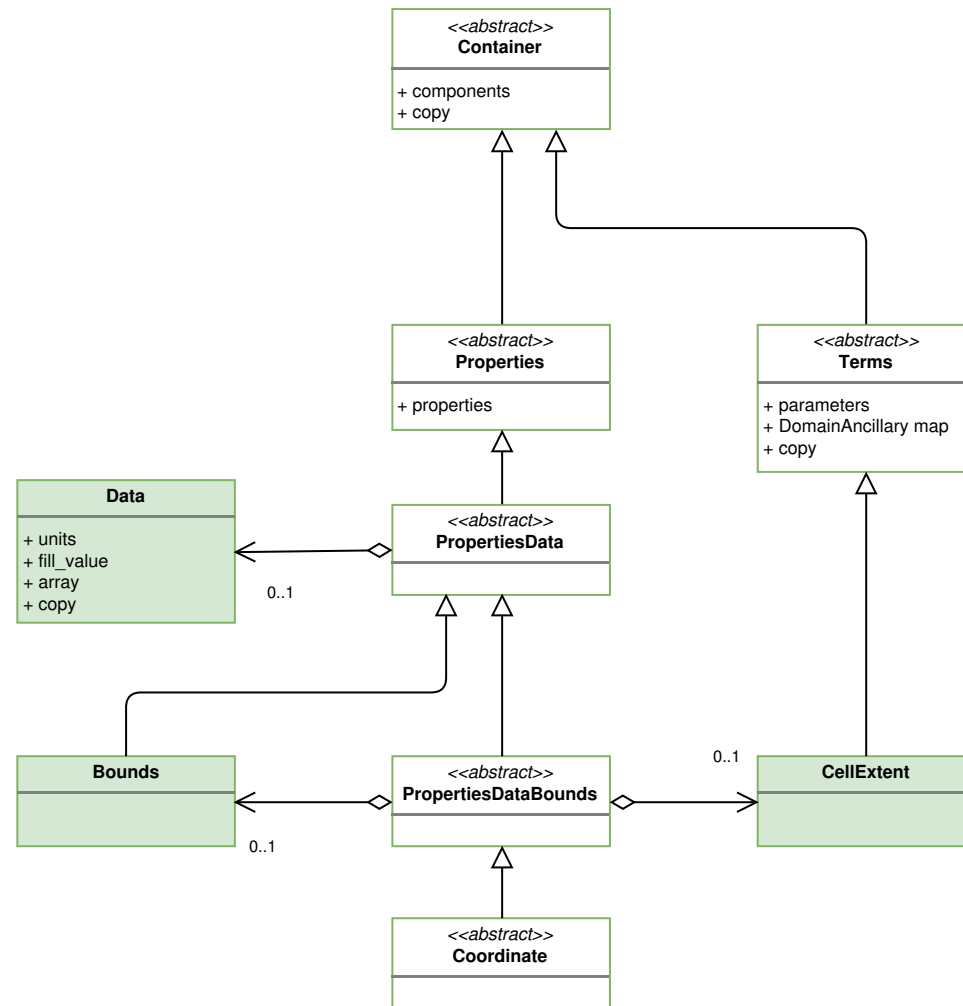
```
>>> import cfdm
>>> f = cfdm.structure.Field()
>>> f.set_property('standard_name', 'iron_growth_limitation_of_picophytoplankton')
>>> print f.get_property('standard_name')
'iron_growth_limitation_of_picophytoplankton'
```

```
>>> import cfdm
>>> f = cfdm.read('file.nc')
>>> print f.equals(f)
True
>>> f[:, 0] = -99
>>> cfdm.write(f, 'newfile.nc')
```







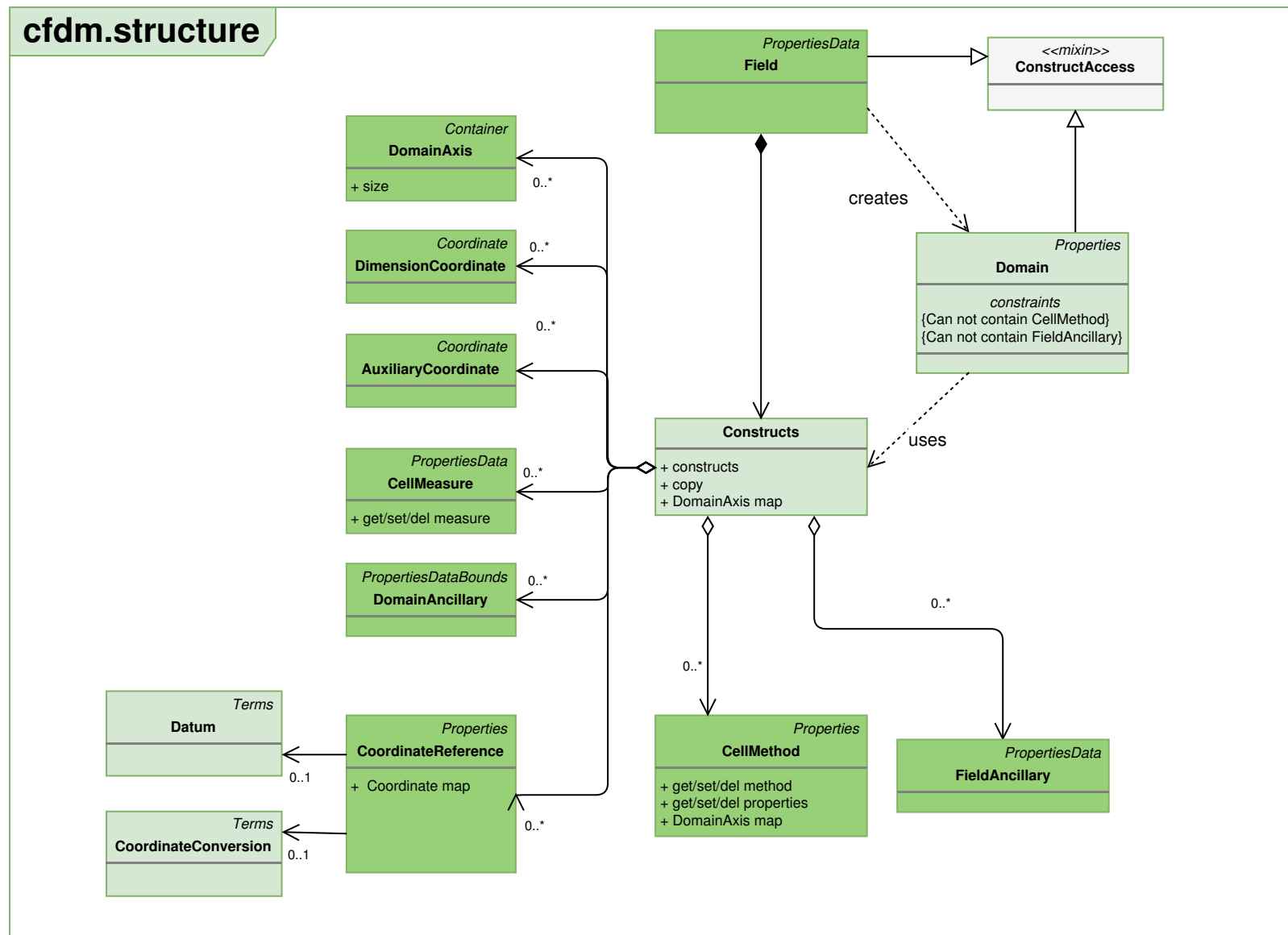
**cfdm.structure**



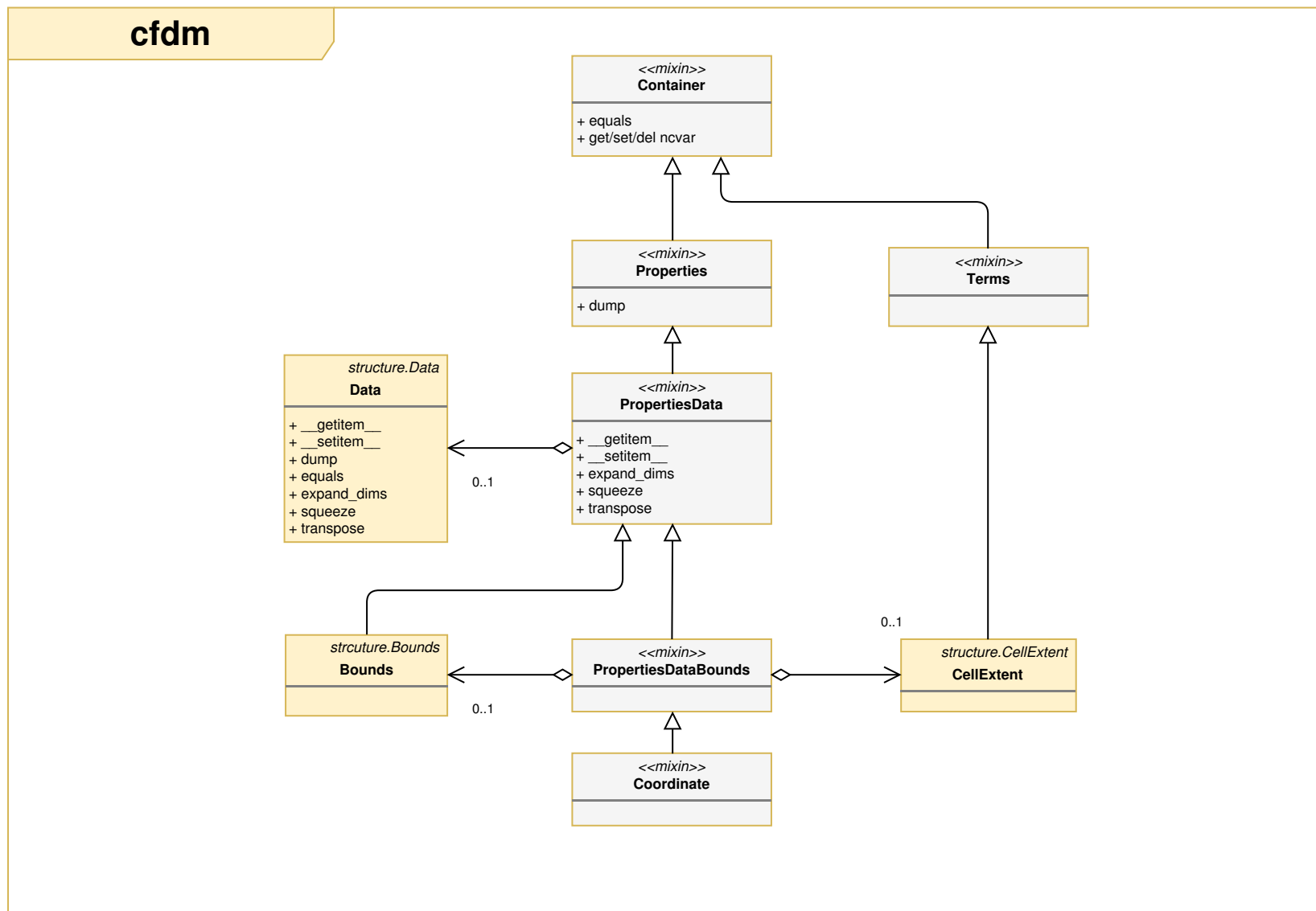




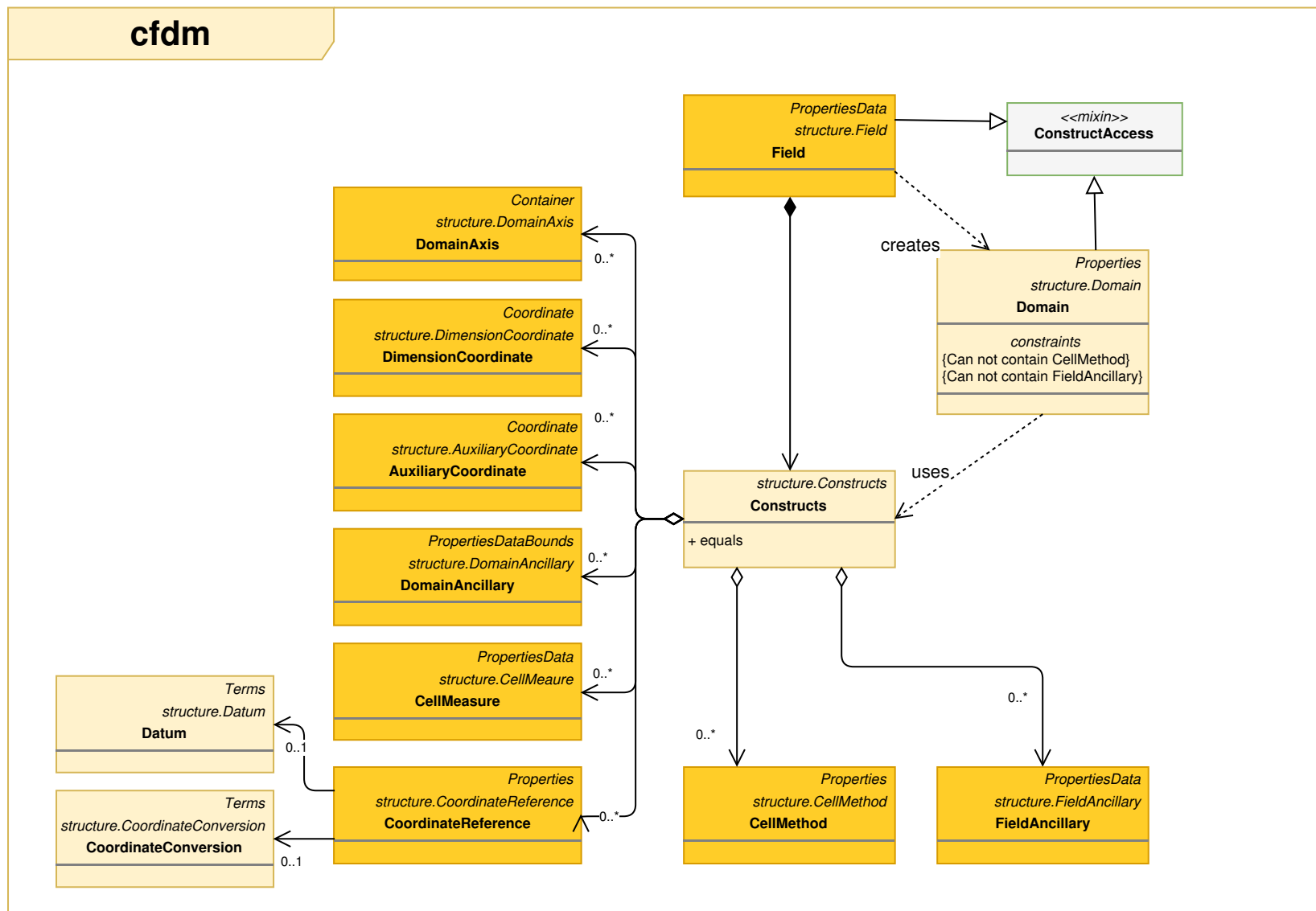




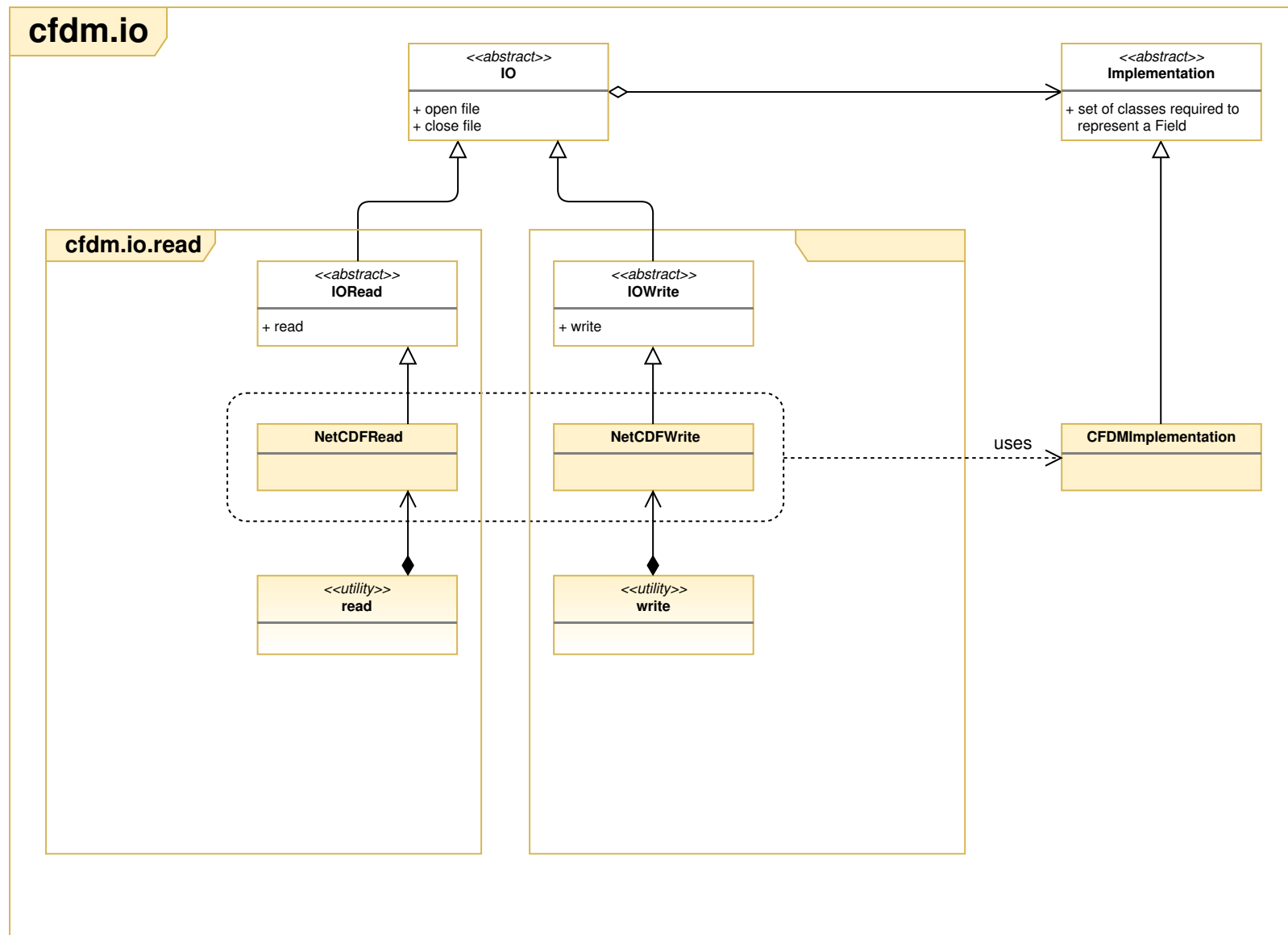






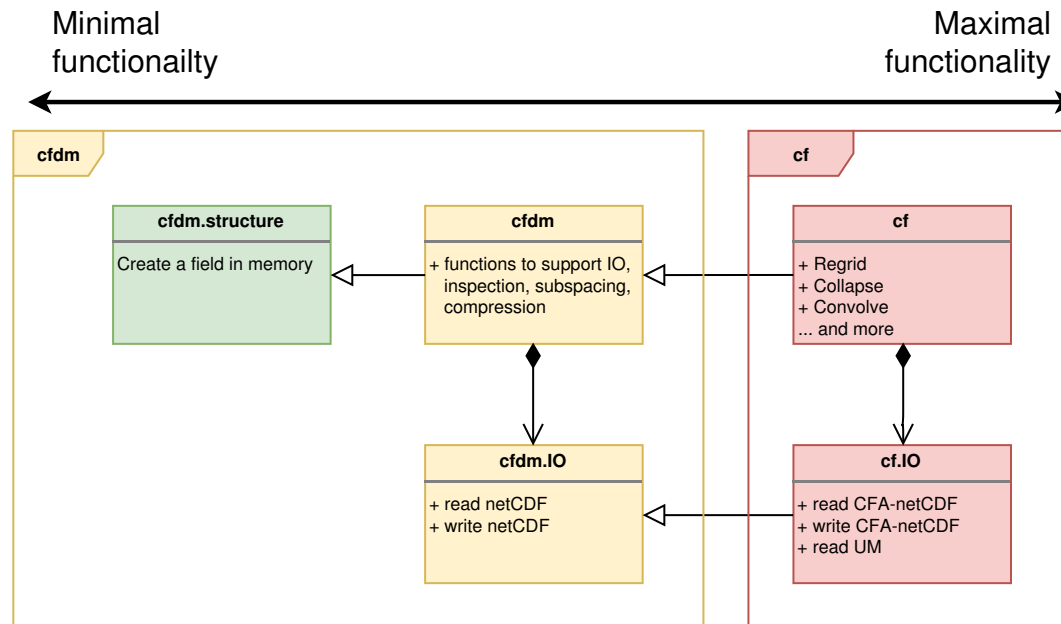












```

>>> import cfdm
>>> f = cfdm.structure.Field()
>>> f.set_property('standard_name', 'iron_growth_limitation_of_picophytoplankton')
>>> print f.get_property('standard_name')
'iron_growth_limitation_of_picophytoplankton'

```

```

>>> import cfdm
>>> f = cfdm.read('file.nc')
>>> print f.equals(f)
True
>>> f[:, 0] = -99
>>> cfdm.write(f, 'newfile.nc')

```

```

>>> import cf
>>> f = cf.read('file[1-9].pp')
>>> f.standard_name = 'sea_water_practical_salinity'
>>> g = f.collapse('T: variance', weights='T')
>>> g = g.subspace(longitude=cf.wi(-10, 45))
>>> cf.write(g, 'newfile.nc', fmt='CFA4')

```



