Data class for Interface.

This class is storing metadata of dimensions, attributes and variables as well as data of variables in an internal data model.

Metadata information must be provided according to NetCDF NCML XML file schema. Data information can be attached to a variable as numpy array.

## Modules

<u>numpy</u>

## **Classes**

Attribute
Dimension
Variable

#### class Attribute

Class for storing NetCDF attribute information

```
Methods defined here:
```

### class **Dimension**

Class for storing NetCDF dimension information

```
Methods defined here:
```

```
getName(self)
     Return dimension name
```

# class Variable

Class for storing NetCDF variable information

```
Methods defined here:
__init__(self, name_, shape_, type_)
     Constructor for new variable.
     INPUT PARAMETERS:
             name of variable (string)shape of variable (string). Names of shapes separated by space
     shape
     type
      type of variable (string). Valid declarations defined in 'interface Settings'
addAttribute(self, name_, type_, value_)
     Add attribute to variable by attaching new attribute class to variable attribute list
addData(self, numpy_)
     Attach data to variable as numpy array
getAttributes(self)
     Return list of variable attribute classes
getData(self)
     Return attached data of variable as numpy array
getName(self)
     Return variable name
getShape(self)
     Return variable shape
getType(self)
     Return variable type
```

# Data

```
__author__ = 'Nicolai Holzer'
__author_email__ = 'first-name dot last-name @ mailbox.tu-dresden.de'
__date__ = '2011-03-28'
__version__ = 'v0.1.1'
```

### **Author**

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