
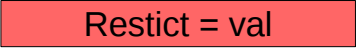



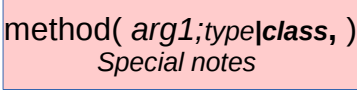
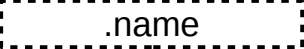
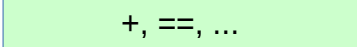
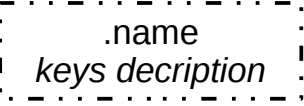
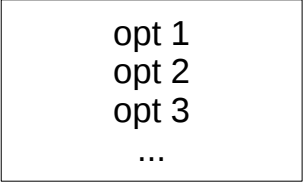




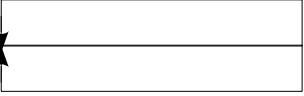
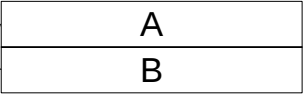
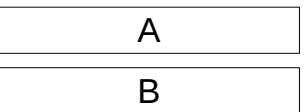


# Notes on classes and functions in obspy

(Disclaimer, the attributes of the classes displayed herein may not be complete and the methods listed most certainly are not)

## Symbols and colors used herein:

	Name ( <i>abbreviation</i> )	- Class		Restict = val	- Restictions
	name	- Base class (attributes inherrited from)			- Extension (uncolored)
	.name( <i>type class</i> )	- scalar attribute		method( <i>arg1;type class, )</i> <i>Special notes</i>	- method
	.name	- list attribute		+ , == , ...	- operators
	.name <i>keys decription</i>	- dictionary attribute			
	opt 1 opt 2 opt 3 ...	- list of available options			
		- mandatory attribute			
		- fixed attribute			
		- optional attribute			
		- mutually inclusive attribute			
		- mutually exclusive attribute			
	A B	- B requires A			
	A B	- objects in B are shallow copies of objects in A			

## Module abbreviations used herein:

**osi** - obspy.station.inventory  
**osn** - obspy.station.network  
**oss** - obspy.station.station  
**osc** - obspy.station.channel  
**osr** - obspy.station.response  
**osu** - obspy.station.util  
**ocut** - obspy.core.util.obspy\_types  
**ocud** - obspy.core.utcdatetime>

### **Type and class abbreviations:**

***ocutfuu*** - ocut.FloatWithUncertaintiesAndUnit

***ocutc*** - ocut.CustomComplex

***ocudU*** - ocud.UTCDateTime

***osrr*** - osr.Response

***osris*** - osr.InstrumentSensitivity

***osrip*** - osr.InstrumentPolynomial

***osua*** - osu.Azimuth

***osuc*** - osu.Comment

***osud*** - osu.Distance

***osuda*** - osu.DataAvailability

***osudi*** - osu.Dip

***osue*** - osu.Equipment

***osuer*** - osu.ExternalReference

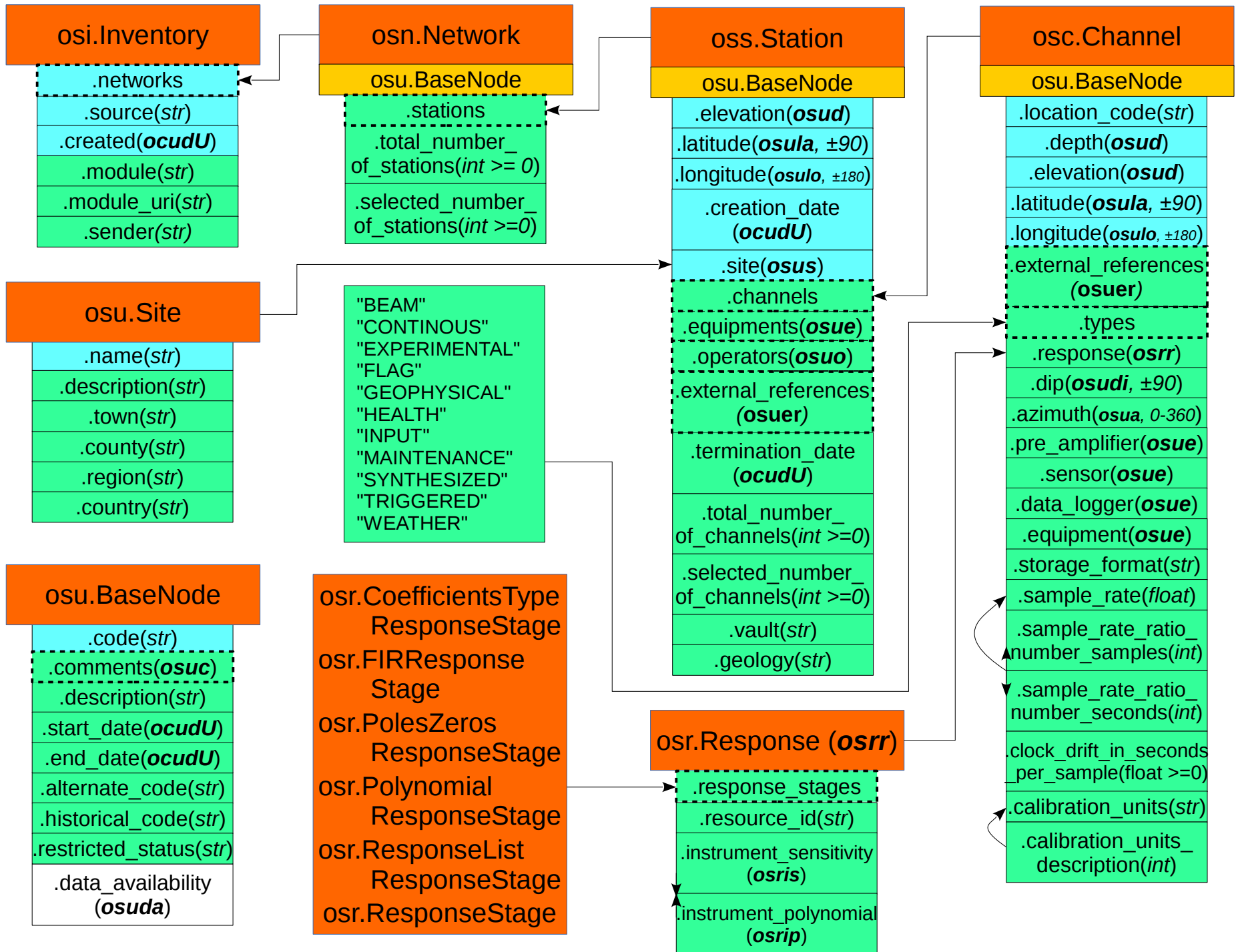
***osula*** - osu.Latitude

***osulo*** - osu.Longitude

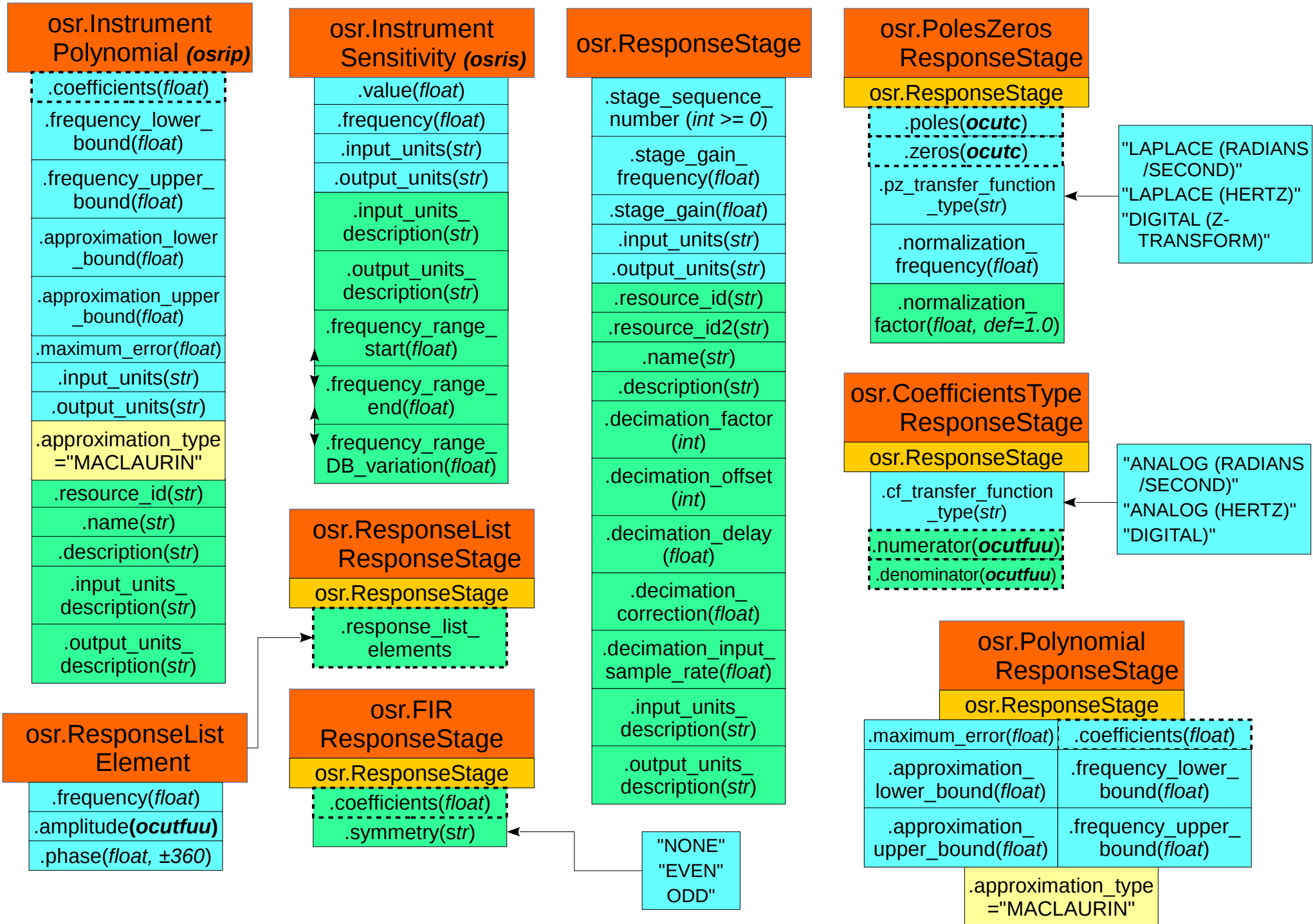
***osuo*** - osu.Operator

***osus*** - osu.Site

# class: obspy.station.inventory.Inventory



# Response classes in obspy.station.response



# Various other classes in obspy.station.util

## osu.Equipment (*osue*)

- .calibration\_dates (**ocudU**)
- .type(*str*)
- .description(*str*)
- .manufacturer(*str*)
- .vendor(*str*)
- .model(*str*)
- .serial\_number(*str*)
- .installation\_date (**ocudU**)
- .removal\_date (**ocudU**)
- .resource\_id(*str*)

## osu.Latitude (*osula*) osu.Longitude (*osulu*)

- .value(*float*)
- .lower\_uncertainty (*float*)
- .upper\_uncertainty (*float*)
- .datum(*str*)
- unit = "DEGREES"
- minimum = -90/180
- maximum = 90/180

## osu.External Reference (*osuer*)

- .uri(*str*)
- .description(*str*)

## osu.Comment (*osuc*)

- .value(*str*)
- .id(*int* >= 0)
- .begin\_effective\_time(**ocudU**)
- .end\_effective\_time(**ocudU**)
- .authors

## osu.Operator (*osuo*)

- .agencies(*str*)
- .contacts
- .website(*str*)

## osu.Person

- .names(*str*)
- .agencies(*str*)
- .emails(*str*, [w.l.-\_]+@[w.l.-\_]+)
- .phones

## osu.PhoneNumber

- .area\_code(*int*)
- .phone\_number(*str*, [0-9]+-[0-9]+)
- .country\_code(*int*)
- .description(*str*)

## osu.Distance (*osud*)

- .value(*float*)
- .lower\_uncertainty (*float*)
- .upper\_uncertainty (*float*)
- .unit(*str*)

