ctools - Action #1495

Clarify if csresmap works with Python 3

06/30/2015 08:00 PM - Deil Christoph

Status:	Closed		**Start date:**	06/30/2015
Priority:	Normal		**Due date:**	
Assigned To:	Mayer Michael		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	1.0.0			

Description

I stumbled across these "Python 3.x does not like this" comments in csresmap:

https://github.com/ctools/ctools/blob/6955c7c078e36e4c39b83a13153114ec33ce9c38/scripts/csresmap.py#L272
https://github.com/ctools/ctools/blob/6955c7c078e36e4c39b83a13153114ec33ce9c38/scripts/csresmap.py#L282

```
    elif self.m_algorithm == "SUBDIV":

        # Subtract and divide by model map
        self.resmap -= modelmap
        self.resmap /= modelmap   # Python 3.x does not like this !!!
        #for pixel in modelmap:
        #    if pixel != 0.0:
        #        pixel = 1.0/pixel
        #self.resmap *= modelmap

    elif self.m_algorithm == "SUBDIVSQRT":

        # subtract and divide by sqrt of model map
        self.resmap -= modelmap
        self.resmap /= modelmap.sqrt()   # Python 3.x does not like this !!!
        #for pixel in modelmap:
        #    if pixel != 0.0:
        #        pixel = 1.0/math.sqrt(pixel)
        #self.resmap *= modelmap
```

What needs to be done here? Fix or just remove that comment?
(tests pass for me and I'm using Python 3 ... does this mean it's not covered or it works?)

Michael, if this doesn't work and it's not clear how to fix it, please re-assign the issue to me.

Related issues:

Related to ctools - Bug # 1341: Python 3 import issues with ctool scripts	**Closed**	**10/25/2014**

History

#1 - 06/30/2015 08:07 PM - Knödlseder Jürgen

I think it works now, the comments are probably obsolete, but someone should check.

I added the following code to the GSkymap.i interface that normally should fix this issue:

```
  // Python 2.x operator/=
  GSkymap __idiv__(const GSkymap& map) {
    self->operator/=(map);
    return (*self);
  }
  // Python 3.x operator/=
  GSkymap __itruediv__(const GSkymap& map) {
    self->operator/=(map);
    return (*self);
```

```
    }
    // Python 2.x operator/=
    GSkymap __idiv__(const double& factor) {
        self->operator/=(factor);
        return (*self);
    }
    // Python 3.x operator/=
    GSkymap __itruediv__(const double& factor) {
        self->operator/=(factor);
        return (*self);
    }
```

Note: check #1341 for original issue on this topic.

#2 - 07/01/2015 01:55 PM - Mayer Michael

It works for me but I don't have Python 3 smile.png

#3 - 07/01/2015 02:22 PM - Bregeon Johan

I just tested and it works for me with python3.4 for gammalib/ctools available in git now.

#4 - 07/01/2015 02:25 PM - Mayer Michael

great, thanks. I guess we can remove the comment and close the issue. Jürgen, there is a pending pull request for this file (#1439), maybe the comments can be removed while merging the code.

#5 - 07/02/2015 06:50 PM - Knödlseder Jürgen

- Status changed from New to Closed

- % Done changed from 0 to 100

- Remaining (hours) set to 0.0