QGIS Application - Bug report #17893
Variables don't work in filter of value relation widget

2018-01-19 12:07 PM - Daan Goedkoop

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Edit widget			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:		**Easy fix?:**	Yes	
Pull Request or Patch supplied:		**Resolution:**	fixed/implemented	
Crashes QGIS or corrupts data:		**Copied to github as #:**	25788	

Description

If e.g. a project variable (with the '@variable') notation is used in the filter field of a value relation widget, this doesn't work. While configuring it does work, but when closing the layer properties and actually using the widget, it doesn't.

I have looked into the source code, and I think the problem is (for MASTER) in src/core/fieldformatter/qgsvaluerelationfieldformatter.cpp: no expression context is set. I think in the following block:

```
    if ( !config.value( QStringLiteral( "FilterExpression" ) ).toString().isEmpty() )
    {
      request.setFilterExpression( config.value( QStringLiteral( "FilterExpression" ) ).toString() );
    }
```

...it needs to be changed to something like this:

```
    if ( !config.value( QStringLiteral( "FilterExpression" ) ).toString().isEmpty() )
    {
      QgsExpressionContext context( QgsExpressionContextUtils::globalProjectLayerScopes( layer ) );
      request.setExpressionContext( context );
      request.setFilterExpression( config.value( QStringLiteral( "FilterExpression" ) ).toString() );
    }
```

(Btw. The problem is also present in QGIS 2.18.)

History

#1 - 2018-01-19 02:01 PM - Daan Goedkoop

I have tested this with QGIS 2.18:

https://github.com/dgoedkoop/QGIS/commit/3e0c129bab20bb02b62afe53f6288dc5a33e873f

This does indeed fix the problem. (Apparently QGIS 2.18 didn't have the QgsExpressionContextUtils::globalProjectLayerScopes function yet.)

Btw. The filter of atlas objects in the print composer seems to have the same problem! Also both in Master and in 2.18.

#2 - 2018-01-20 06:28 PM - Daan Goedkoop

For master: https://github.com/qgis/QGIS/pull/6118

#3 - 2018-01-22 11:58 AM - Daan Goedkoop

- Status changed from Open to Closed

Fixed with commit:qgis|fcbf4cb1f1ba05cd4dd199c1144bf4cc2c9c1d5c

#4 - 2018-02-21 09:49 PM - Giovanni Manghi

- Resolution set to fixed/implemented