

QGIS Application - Bug report #22038

Inconsistent intervals for similar labels in graduated classification

2019-05-09 03:40 PM - Mic Del

Status:	Open	
Priority:	Normal	
Assignee:		
Category:	Symbology	
Affected QGIS version:	3.4.6	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 29852

Description

Hi

There is currently an inconsistent meaning behind a similar appearance when we make a graduated classification.

In the  
legend  
label ... meaning  
we see for QGIS

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a - b     $a \leq x \leq b$   
b - c     $b < x \leq c$   
c - d     $c < x \leq d$

Note that the first class has left inclusion but not the others.  
We could wrongly expect from reading only the label :

a - b equals to  $a \leq x < b$   
b - c equals to  $b \leq x < c$   
c - d equals to  $c \leq x < d$

... or any other scheme actually.

**So the same "class interval label" have different interpretations if they are the first or not.**

We need a label notation where the endpoints inclusions are explicit, for example :

common    French  
style    style

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[a, b]    [a, b]  
(b, c]    ]b, c]  
(c, d]    ]c, d]

... or at least if we keep the basic "a - b" notation then we must use the same interval scheme for all classes.

Note also that some softwares (R for example) use left-open/right-closed intervals by default :

label	
-----	
meaning	
-----	
(a, b]	$]a, b]$ $a < x \leq b$
(b, c]	$]b, c]$ $b < x \leq c$
(c, d]	$]c, d]$ $c < x \leq d$

... and some others (like openJUMP) are left-closed/right-open :

label	
-----	
meaning	
-----	
[a, b)	$[a, b[$ $a \leq x < b$
[b, c)	$[b, c[$ $b \leq x < c$
[c, d)	$[c, d[$ $c \leq x < d$

So we need :

- to use a consistent scheme for all classes
- to add an option to be able to choose the left-open or right-open scheme
- to add an option to generate the label with the common notation, the French (Bourbaki) notation or any other notation.

Thanks

## History

#1 - 2019-05-10 10:54 AM - Mic Del

See also "Data class groupings" #16983