

Language for representing strata in QGis

Grammar

*<program> -> tk_main tk_lparent tk_rparent tk_twoPoints tk_layer tk_twoPoints
tk_literalString tk_semiColon <instructions>*

<instructions> -> <instruction> tk_semiColon <moreInstruction>

<instruction> -> <asignation> | <declaration> | <impresion>

<moreInstruction> -> e|<instructions>

<declaration> -> <kind><ids>

<kind> -> tk_qstring |tk_qinteger |tk_qlist/tk_qcolor/tk_qstrata

<ids> -> tk_identificator <moreId>

<moreId> -> tk_colon <ids> | e

<asignation> -> tk_identificator tk_asignation <value>

<value> -> tk_identificator | tk_literalInteger| tk_literalString |<color> |<strata> |<list>

<list> -> <valueList> <moreValueList>

<moreValueList> -> tk_colon <list>|e

<valueList> -> tk_identificator/tk_literalInteger

<color> -> tk_lparent <valueList> tk_colon <valueList> tk_colon <valueList> tk_rparent

<impresion> -> tk_paint tk_lparent <valuesImpresion> tk_rparent

<valuesImpresion> -> <valueImpresion> <moreValueImpresion>

< moreValueImpresion> -> tk_colon < valuesImpresion> | e

< valueImpresion> -> tk_identificator| <strata>

*<strata> -> tk_lkey tk_e_name tk_twoPoints <valueName> tk_colon tk_e_color
tk_twoPoints <valueColor> tk_colon tk_e_territories tk_twoPoints <valueT> tk_rkey*

<valueName> -> tk_identificator| tk_LiteralString

<valueColor> -> <color>| tk_identificator

<valueT> -> <list>| tk_identificator

Keywords Table

Lexeme	Token Kind
main	tk_main
paint	tk_paint
e_color	tk_e_color
e_name	tk_e_name
e_territories	tk_e_territories
qcolor	tk_qcolor
qlist	tk_qlist
qinteger	tk_qinteger
qstrata	tk_qstrata
qstring	tk_qstring
:	tk_twoPoints
;	tk_semiColon
(tk_lparent
)	tk_rparent
{	tk_lkey
}	tk_rkey
,	tk_colon
error	tk_error
=	tk_asignation
'[a-zA-Z]*[0-9]*'	tk_literalString
[0-9] +	tk_literalInteger
layer	tk_layer

Example:

main ():

layer: "layerName";

This is a comment from one line

Variable declarations

qinteger t1, t2, t3, t4, t5, t5;

qstrata s1, s2;

qcolor color1, color2;

qlist l1, l2;

qstring n1, n2;

Assignments to variables declared

t1=1;

t2=4;

t3=7;

t4=45;

t5=6;

l1= [t1, t2, t3, t4];

l2= [t5];

n1= "strata1";

n2= "strata2";

color1 = (255, 255, 0);

color2= (250, 45, 50);

s1= {e_name: n1, e_color: color1, e_territories: l1};

s2= {e_name: n2, e_color: color2, e_territories: l2};

paint (s1,s2);