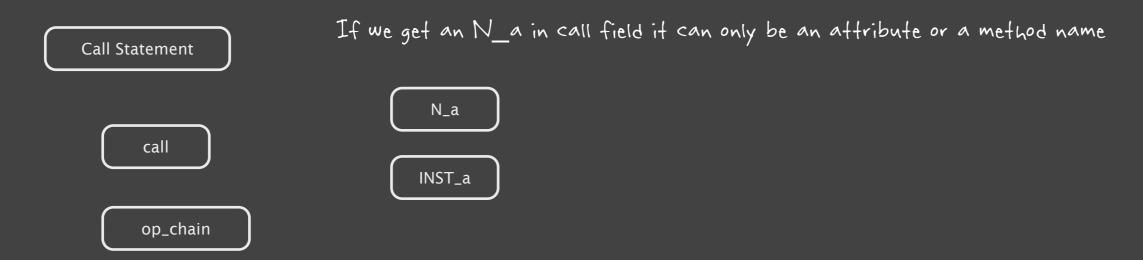
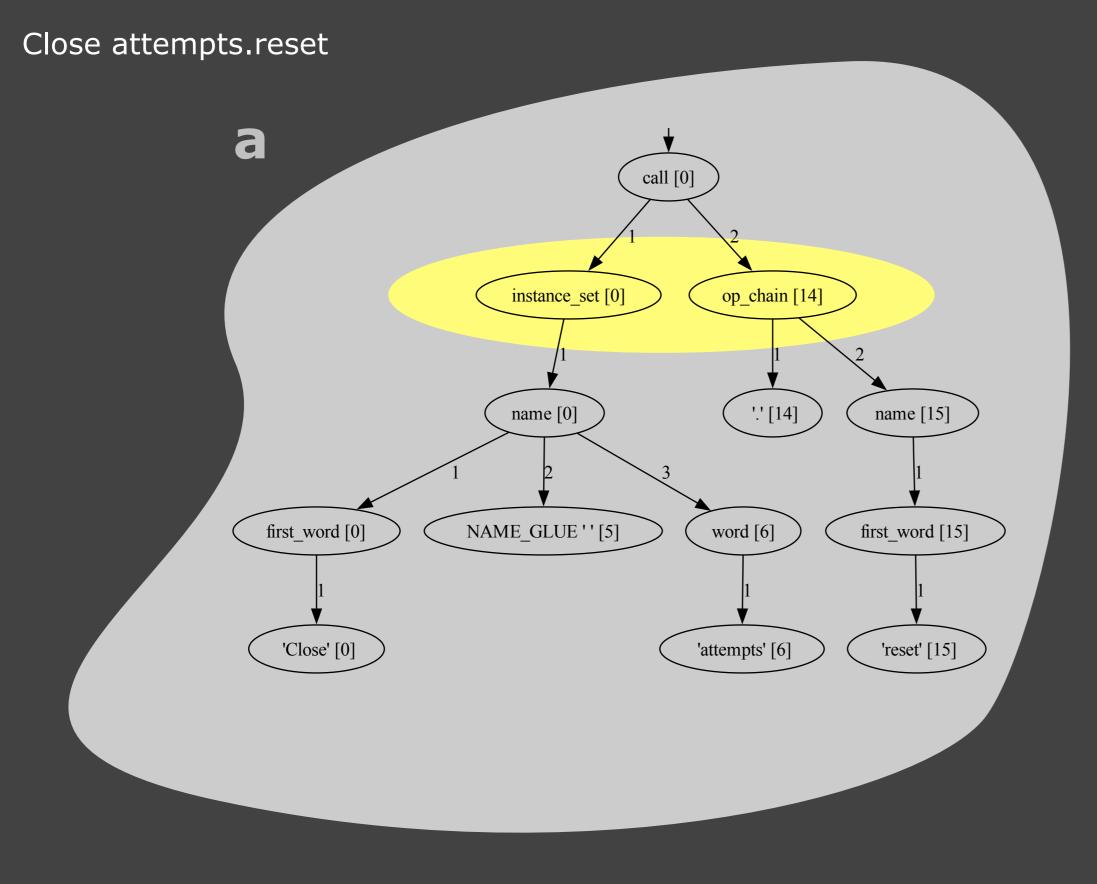
Call parse analysis

Leon Starr 2025-10-2/ v0.6 Here we study the Scrall parser tree and named tuples resulting from a parse of a variety of operation chains following an attribute write action so that we can figure out how to populate the actions in the xUML populate tool

Close attempts.reset.convert



> | statement = {Call_a} Call_a(call=N_a(name='Close attempts'), op_chain=Op_chain_a(components=[N_a(name='reset')]))

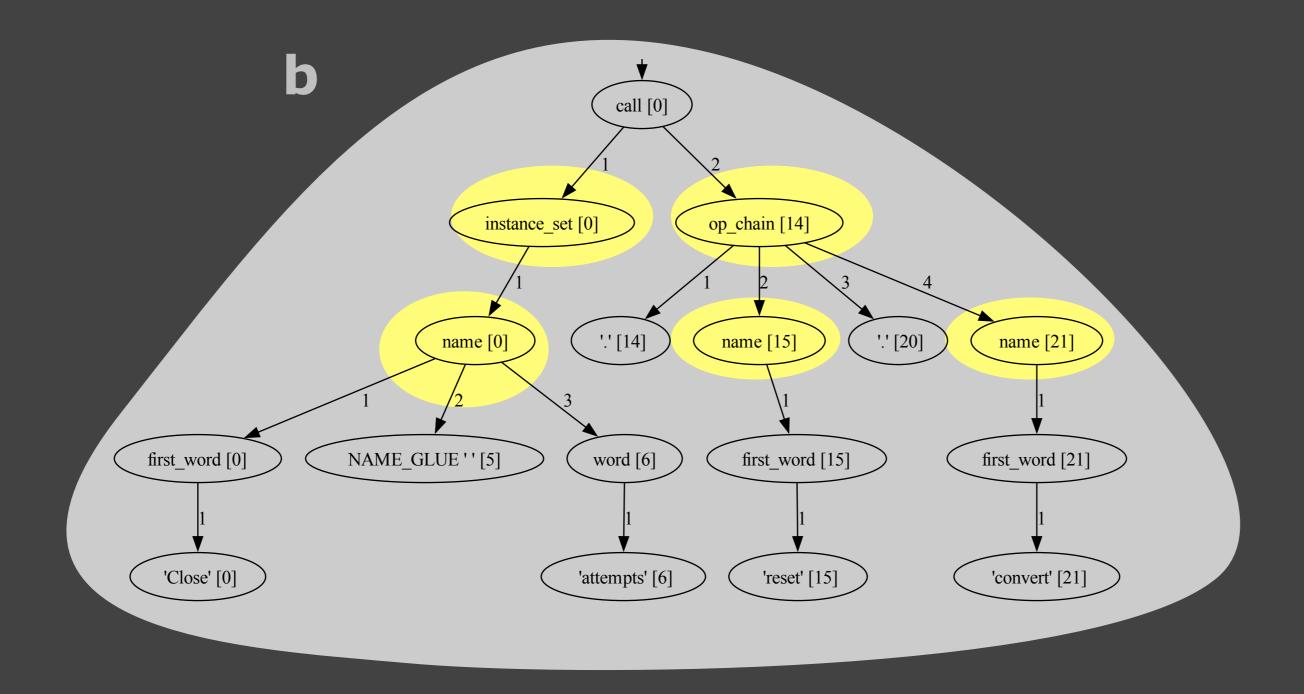


At this point, Close attempts could be either an attribute name, (which it is, in our example) OR the name of a single instance flow qualifying the attribute name in the first component element of the op_chain field.

It's not the name of a method since we don't see any () which are required in the Scrall syntax for a method call, even if no parameters are supplied. And definitely not an external service since the ~ symbol would force an INST_a tuple instead of an N_a in the call field.

Close attempts.reset.convert

- > = call = {N_a} N_a(name='Close attempts')
- > \(\begin{aligned} \text{op_chain} = \{\text{Op_chain_a}\} \text{Op_chain_a(components=[N_a(name='reset'), N_a(name='convert')]}\)



Close attempts.reset(floor: level)

```
v = call = {INST_a} INST_a(components=[Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))]]))

v = components = {list} [Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))]])

v = 0 = {Op_a} Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])

log op_name = {str} 'reset'
 log owner = {str} 'Close attempts'

log owner = {str} 'Close attempts'

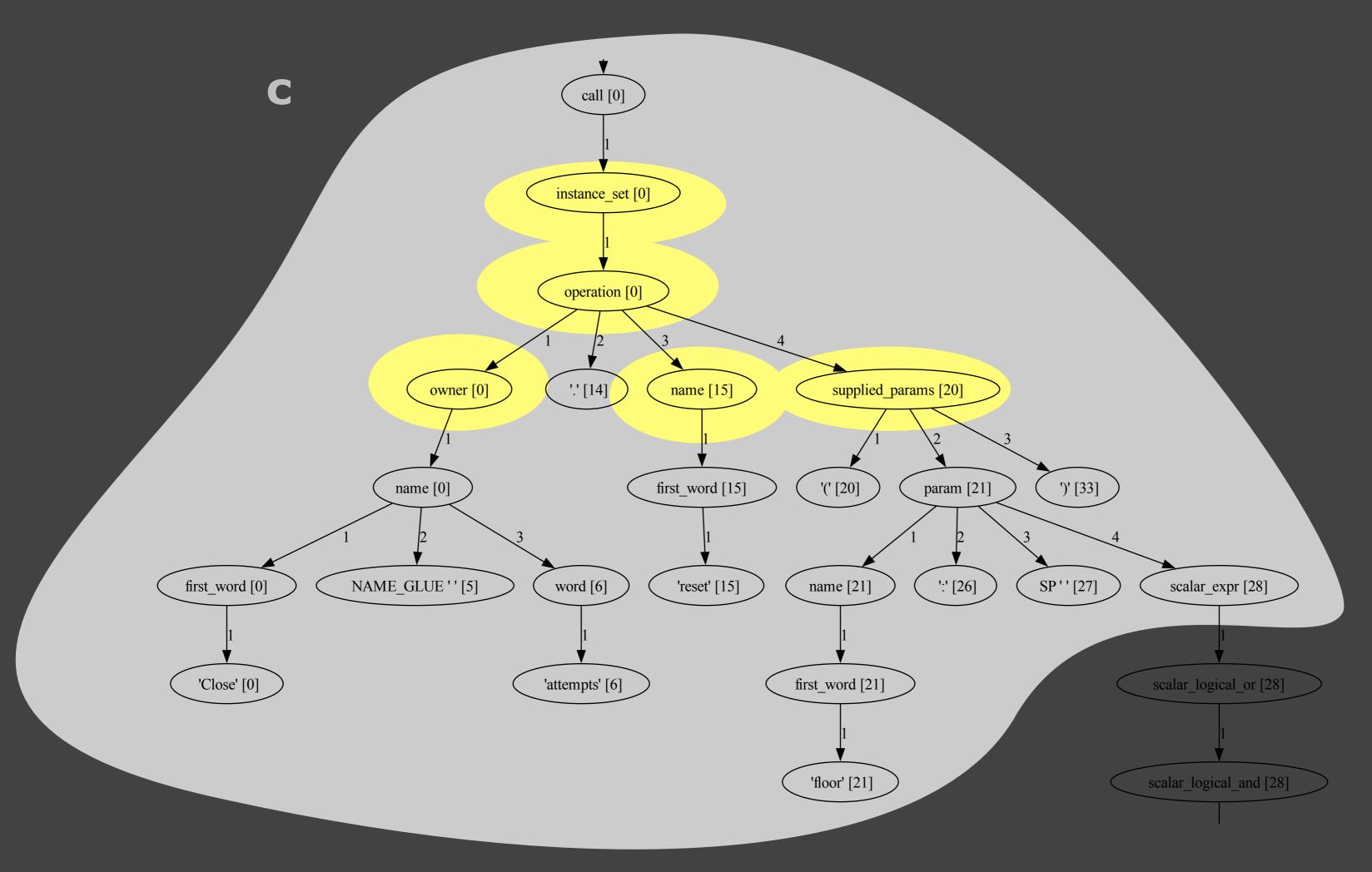
log supplied_params = {list} [Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))]

log owner = {str} 'Close attempts'

log owner = {str} 'Close attempts'

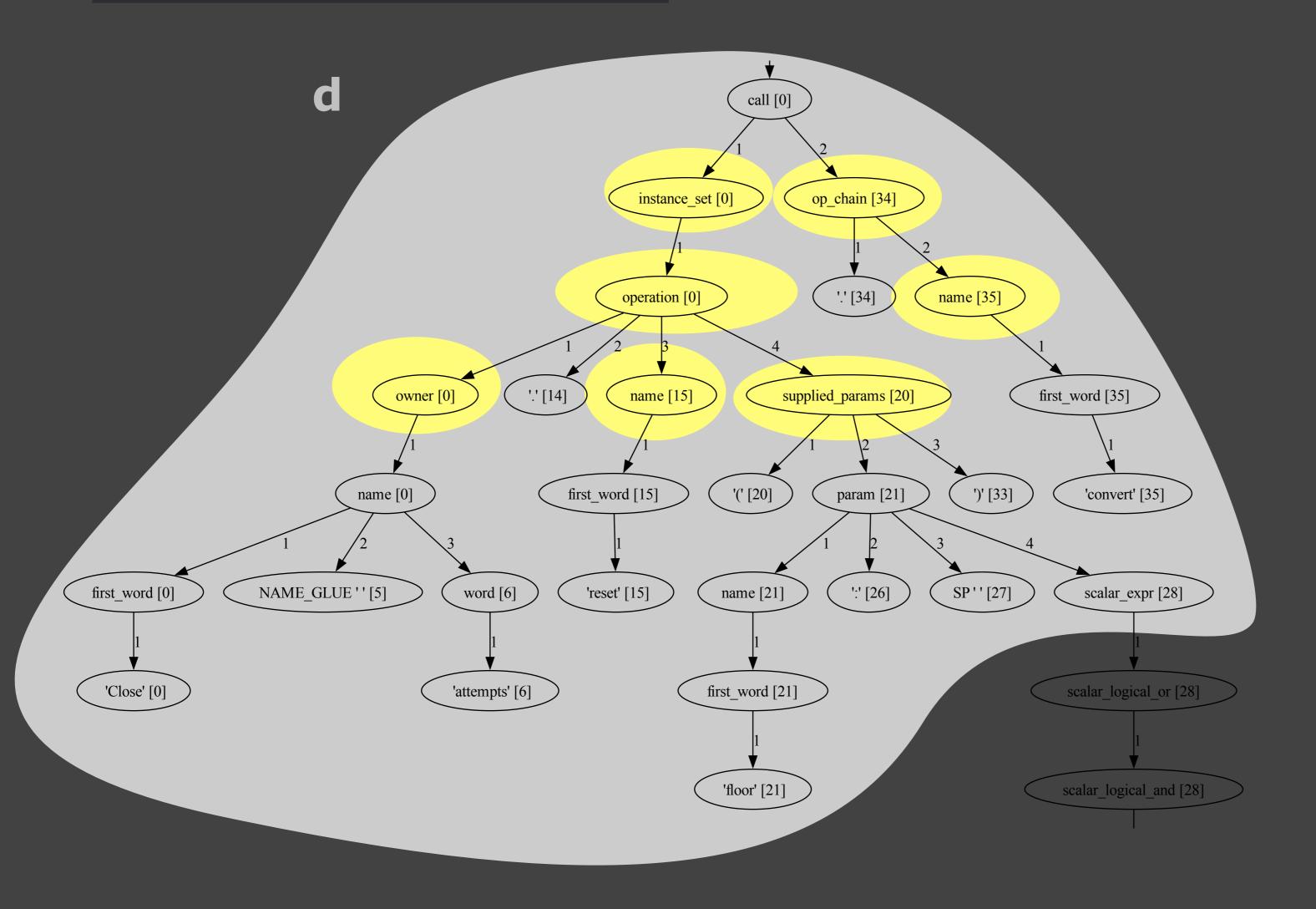
log owner = {list} [Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))]

log owner = {list} [Supplied_Parameter_a(pname='floor', sval=N_a(name='floor', sval=N_a(name='floor', sval=N_a(name='floor', sval=N_a(name='floor', sval=N_a(name='floo
```



Close attempts.reset(floor: level).convert

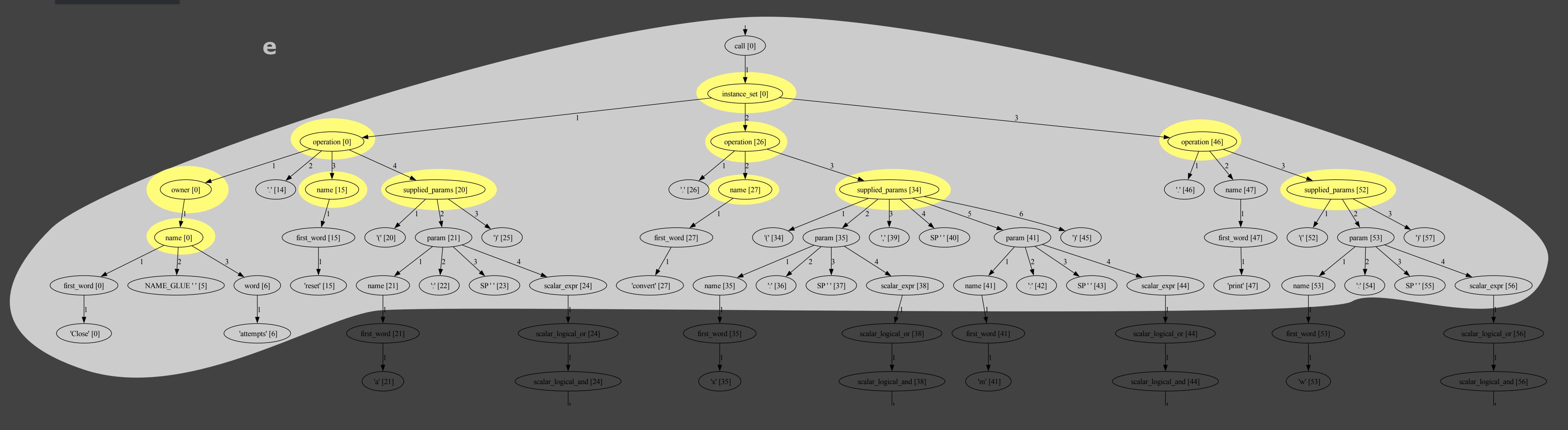
- > 🔚 components = {list} [Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])]
- > \(\begin{aligned} \text{op_chain} = \left\{ Op_chain_a(components=[N_a(name='convert')]} \end{aligned}



Close attempts.reset(a: b).convert(x: y, m: n).print(w: z)

- ∨ ☐ call = {INST_a} INST_a(components=[Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(nam...name='n'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(nam...name='n'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(nam...name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])), Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])))
 - > 🗧 0 = {Op_a} Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])
 - > = 1 = {Op_a} Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='x', sval=N_a(name='y')), Supplied_Parameter_a(pname='m', sval=N_a(name='n'))])
- \Rightarrow \equiv 2 = {Op_a} Op_a(owner='_implicit', op_name='print', supplied_params=[Supplied_Parameter_a(pname='w', sval=N_a(name='z'))])

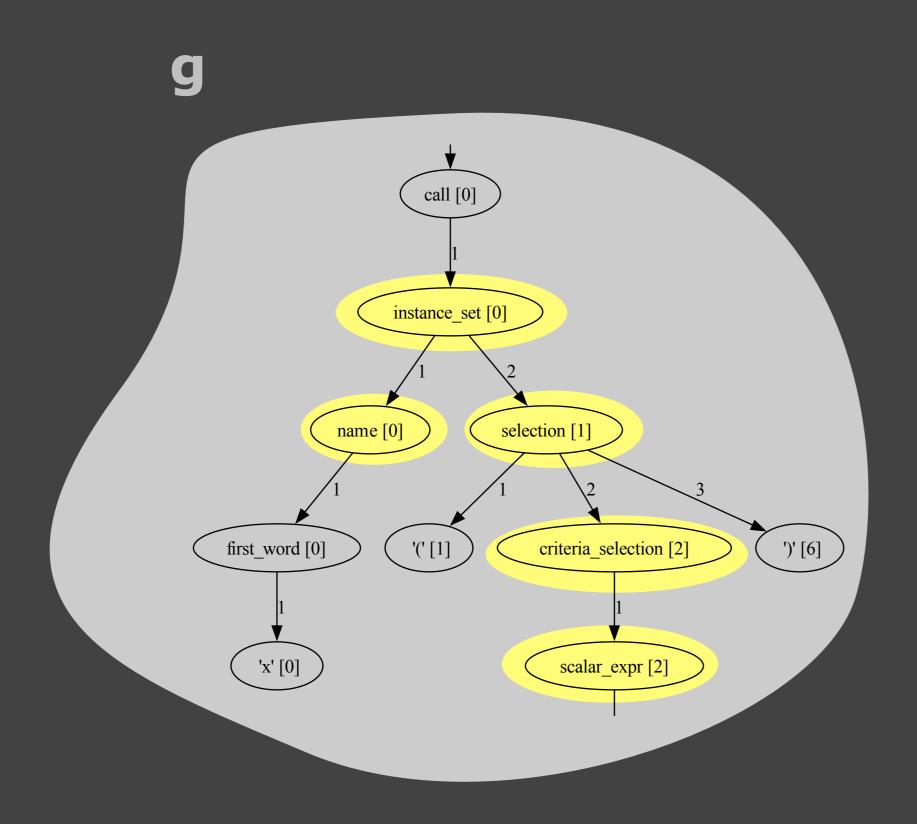
op_chain = {NoneType} None



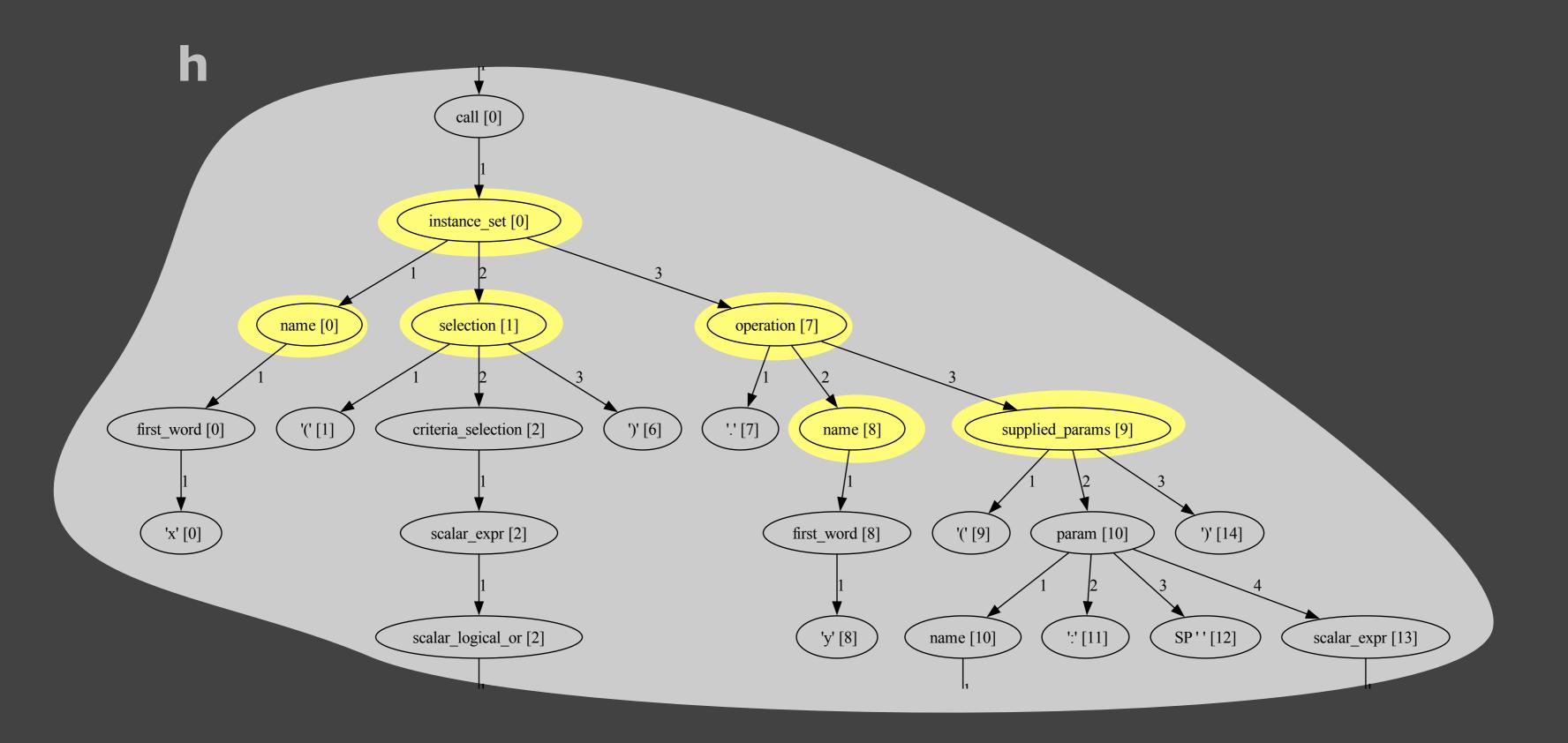
Close attempts.reset.convert(a: b)

- call = {N_a} N_a(name='Close attempts')
 op_chain = {Op_chain_a} Op_chain_a(components=[N_a(name='reset'), Scalar_op_a(name=N_a(name='convert'), supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])]
 components = {list} [N_a(name='reset'), Scalar_op_a(name=N_a(name='convert'), supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])]
 0 = {N_a} N_a(name='reset')
 1 = {Scalar_op_a} Scalar_op_a(name=N_a(name='convert'), supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])
- call [0] op_chain [14] instance_set [0] '.' [14] '.' [20] name [15] scalar_op [21] name [0] first_word [0] NAME_GLUE''[5] first_word [15] supplied_params [28] name [21] word [6] ')' [33] '(' [28] 'Close' [0] 'attempts' [6] 'reset' [15] first_word [21] param [29] 'convert' [21] name [29] scalar_expr [32] first_word [29] scalar_logical_or [32] scalar_logical_and [32]

x(a: b)



x(a: b).y(c: d)



/R4/Cabin.Ping

```
> = call = {INST_a} INST_a(components=[PATH_a(hops=[R_a(rnum='R4'), N_a(name='Cabin')])])
```

> = op_chain = {Op_chain_a} Op_chain_a(components=[N_a(name='Ping')])

