IntelliJ Integration

QDL syntax highlighting can be integrated into your IntelliJ IDE and you can use the full power of your IDE's editor. This is *not* a full blown plugin, but a quick way to get you up to speed.

This is actually not hard to do at all (if you slog through enough documentation to find it!) and is mostly clicking a few boxes and pasting a whole bunch of stuff from below.

1. Setup the file type.

Open Settings (Ctrl + Alt + s) and navigate to

Editor → File Types

Under **Recognized File Types** click + (to add a new one).

Set the name and description to be QDL and the following (See the screen shot)

Then click on the File

Line comment: //

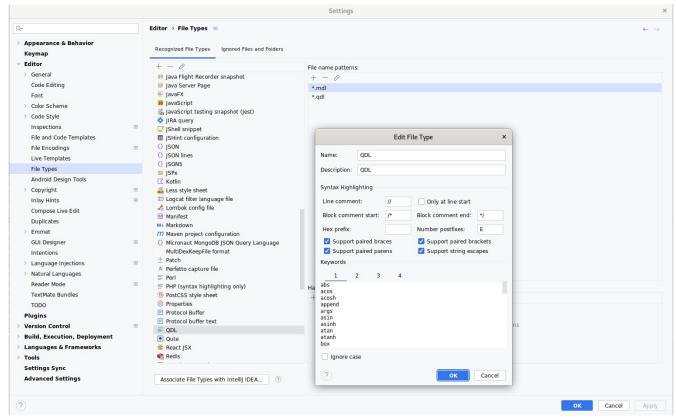
Block Comment Start: /*

Block Comment End: */

Number postfixes: **E**

You want to select all of the next set of boxes for pairing brackets and parentheses.

It should look a lot like the next screen shot:



2. Set the syntax highlighting.

Under the boxes you will a box for **keywords** with 4 tabs. Each tab corresponds to a different highlighting color. The following lists goes into the boxes. Remember that each line is a token so line breaks are essential.

Box 1 (functions)

abs
acos
acosh
apply
arg_count
args
asin
asinh
atan
atanh
box
break
cb_exists
cb_read
cb_write

ceiling

check_after check_syntax common keys constants contains continue cos cosh date_iso date_ms debugger decode detokenize diff differ_at dim dir docs encode excise exclude_keys exp expand file_read file write floor for each for_keys for_lines for_next fork from_json from_uri funcs gcd halt has_key has keys has_value hash head identity import include_keys index of indices info input_form

insert
insert_at

```
interpret
is defined
is function
is_list
is null
j_load
j_use
join
keys
kiĺl
lcm
lib_entries
list_copy
list_keys
ln
load
loaded
log
logger
mask
max
min
mod
module_import
module_load
module_path
module remove
names
nroot
numeric_digits
os_env
pi
pick
print
query
raise_error
random
random_string
rank
reduce
гемар
remove
rename
rename_keys
replace
return
reverse
say
scan
script_args
```

script_load script name script_path script run set default shuffle sin sinh size sleep sort star starts with sublist substring tail tan tanh to_boolean to_json to_lower to_number to_string to_upper to uri tokenize transpose trim unbox union unique unload use values var_type vars vfs_mount vfs_unmount ws_macro П

Box 2. Reserved QDL keywords.

assert block body define do

```
else
if
module
switch
then
while
```

Box 3. Operators

@ ∌ ∀ ₹ μ 0 ⊕ ∃ ∄ € << | ^ U \cap ٨ × ÷ % Δ && ٨

≡ ≠ ≤ ≥

(Note that once you drop these in the box, Intellij will actually sort these, so the order may come back different than you put in. That is fine.)

Box 4. Standard Math operators (ASCII)

```
~!#%&*+-<=>?@^—~¬- ¿×÷;
```

3. Set the file pattern

Close the syntax box and add two file patterns, one for QDL files and one for modules files:

*.qdl

*.mdl

You should now be able to create a file with the .qdl extension and all the syntax is highlighted, brackets. braces matched etc.