

A DXL write **commits to the database the instant the script runs** — no confirmation, no preview, no undo.

The baseline you take first is the only way back.

01 THE FOUR OPERATIONS

SPINE OF NEARLY EVERY INHERITED SCRIPT · CODE REPRODUCED VERBATIM

i. ITERATE · GUARDED LOOP

Walk every object; *guard* so it skips soft-deleted ones.

```
Object o
for o in current Module do {
  if (!isDeleted o) print identifier(o)
  "\n"
}
```

ii. READ AN ATTRIBUTE

Object, dot, attribute name in quotes. Read-only.

```
string vm = o."Verification Method" ""
```

Trailing "" coerces the value to a string.

iii. MODIFY · THE WRITE

Looks almost identical to a read — read carefully.

```
o."Verification Method" = "Test"
```

Committed instantly. No undo.

iv. GENERATE OUTPUT

Print to the pane, or open a *Stream* to a file.

```
Stream out = write "C:/temp/gap.txt"
out << identifier(o) << "\n"
close out
```

02 READ THE COLORS

TOKEN KEY

- Function · isDeleted, print
- String / number
- Comment
- Attribute · "Object Type"
- Type · Object, Stream
- Keyword · for, if, do

// · /* */ Comments — where the last author told you the intent.

for...in..do The loop, body in braces. Walks every object.

o."Name" Attribute access — the read; "" coerces to string.

Object · Module Types: also string, int, bool, Stream.

Name these on sight and most inherited scripts stop being opaque.

03 == VS =

MOST DANGEROUS

== **Compares**
a filter — belongs inside an if

= **Assigns**
a write — changes the database

One keystroke apart, opposite effects. A = **typed where == was meant** turns a filter into an always-true overwrite — and DOORS gives no warning. Read every = inside an if as a suspected bug until proven otherwise.

04 READ BEFORE YOU RUN

3 QUESTIONS

- Find the **loop** — the for ... in ... do — and what module it walks.
- Find what it **filters** on; confirm each test uses ==, not =.
- Find every line that **writes** (= on an attribute) or **removes** (delete, purge).

Only prints → **safe to run**. Any = on an attribute or any delete → **it changes the database**.

05 INTERACTION WINDOW

EDIT DXL...

DXL Interaction two-pane editor

```
INPUT - YOUR DXL
// which module?
print name(current Module) "\n"

OUTPUT
01-UAS-System-Requirements
```

RUN

Runs against current Module — the front window. **Check the title bar first.**

06 WHERE IT LIVES

EITHER WAY

.dxl A loose file
In a program folder — load or paste it into the editor.

Installed on a menu
One click from running; source sits in the DOORS add-ins folder.

A runbook line
"Run the coverage script before the review."

Wherever it comes from, the questions you put to it are the same.

07 FIVE FOOTGUNS

SYMPTOM → FIX

Write with no undo
Assigned an attribute, never baselined. → **Baseline first.**

Loop hits deleted objects
No isDeleted guard. → **Guard if (!isDeleted o).**

Wrong module changed
Ran against the wrong current Module. → **Check the title bar.**

==for== slip
Filter became an overwrite. → **Read every = in an if as a bug.**

delete / purge
As final as a write. → **Baseline first.**

08 SAFE-WRITE ORDER

IN SEQUENCE

- BASELINE**
File ▶ Baseline ▶ New... — the only undo a write has.
- SCOPE**
Narrow the loop to only the objects you intend.
- RUN**
Press Run against the baseline you just took.
- VERIFY THE COUNT**
Check the count printed against the count you expected.

A number **larger than your scope** is the tell.

09 PRE-RUN CHECKLIST

EVERY RUN

- Read the whole script — you know whether it **writes**.
- If it writes, the module is **baselined now**.
- current is the module you mean — **title bar confirms**.
- The loop is **scoped** and guards isDeleted.
- You know the **count** it should change, and will verify it.
- Every = inside an if is **cleared as not-a-bug**.