

Makefile constants reference

Here's a **focused checklist** for variable substitution opportunities in your Makefile. I'll highlight the **biggest wins first** (high-impact changes) and then secondary optimizations.

High-Impact Opportunities

1. NPM / NPX Commands

- **Current pattern:** You run `npx openapi-to-postmanv2`, `npx @stoplight/prism-cli`, etc., directly in different targets.
- **Why change:** You've already defined variables like `GENERATOR_OFFICIAL`, `PRISM`, `NEWMAN`, `REDOCCLY`, etc.
- **Action:**
 - Ensure **all** `npx ...` **calls** are replaced with these variables.
 - Consider a `NPM_GLOBAL_TOOLS` or `NPM_TOOLS` variable (like we discussed for `install`).

2. JQ Scripts

- **Current pattern:** `$(SCRIPTS_DIR)/fix_paths.jq`, `merge.jq`, etc., are referenced directly.
- **Why change:** If you ever reorganize `$(SCRIPTS_DIR)`, you'll need to change them everywhere.
- **Action:** Create variables like:

```
makefile

FIX_PATHS := $(SCRIPTS_DIR)/fix_paths.jq
MERGE_JQ  := $(SCRIPTS_DIR)/merge.jq
ADD_TESTS := $(SCRIPTS_DIR)/add_tests.jq
```

Then replace calls in targets with `$(FIX_PATHS)` etc.

3. Postman Paths

- **Current pattern:** Many references to `postman/generated/` and `postman/custom/`.
- **Why change:** These appear multiple times (e.g., `COLLECTION_RAW`, `COLLECTION_FIXED`, etc.).
- **Action:** You already have `POSTMAN_GEN_DIR` and `POSTMAN_CUSTOM_DIR` — make sure **all Postman file paths** use those variables (you already have good coverage here but worth checking).

4. Base URLs and Token Extraction

- **Current pattern:**

```
makefile
```

```
BASE_URL_RAW := $(shell [ -f $(ENV_FILE) ] && jq -r '.environment.values[] |
select(.key=="baseUrl") | .value' $(ENV_FILE))
```

- **Why change:** These `jq` calls might be repeated in other parts of your Makefile or scripts.
- **Action:** If used in multiple places, consider a dedicated variable or **function-style variable**.

Secondary Opportunities

5. Python Environment

- **Current pattern:**
`$(PYTHON_ENV_DIR)/e2o.venv/bin/python` and `pip` are referenced via `VENV_PYTHON` and `VENV_PIP`.
- **Action:** Confirm all Python-related commands use these variables. If you install packages, define:

```
makefile
```

```
PIP_INSTALL := $(VENV_PIP) install
```

and call `$(PIP_INSTALL) -r requirements.txt`.

6. Brew Install Tools

- If you plan to add more Homebrew packages, you can define:

```
makefile
```

```
BREW_TOOLS := openapi-diff
```

Then:

```
makefile
```

```
brew install $(BREW_TOOLS) || echo "..."
```

7. Newman HTML Reports

- **Current pattern:** `newman run ... --reporter-html-export $(REPORT_HTML)`
- **Action:** Use `$(REPORT_HTML)` consistently in any target generating reports.

8. Environment & UID Files

- Files like `postman_env_uid.txt` and `postman_collection_uid.txt` are already variables (`ENV_UID_FILE`, etc.), but check if **raw paths** appear anywhere else in the Makefile. Replace them with `$(ENV_UID_FILE)` etc.

Suggested Refactoring Order

1. **Start with NPM/NPX commands** (immediate cleanup & DRY benefit).
 2. **Move to jq scripts.**
 3. **Check Postman path usage** (should be quick since you already have variables).
 4. **Tighten Python environment references.**
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Next Step

Would you like me to **rewrite your install target and give you 2-3 example refactored targets** (e.g., one that uses **GENERATOR_OFFICIAL**, one that uses **PRISM**), so you can see a clean pattern to follow?
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