

# **x\_make\_github\_clones\_x** Repository Synchronisation Discipline

`x_make_github_clones_x` keeps a local working directory aligned with a curated set of GitHub repositories. It talks directly to the GitHub REST API, respects our visitor pipeline contracts, and writes machine-auditable run reports so the command center always knows what happened.

## **Capabilities**

- Fetch repository metadata with optional name filters and fork inclusion.
- Clone or update repositories on disk, with safe fallback for corrupt working trees.
- Emit JSON run reports that satisfy the `json_contracts` schemas used by the visitor and release dashboards.
- Honour `X_ALLOW_TOKEN_CLONE` so sensitive clones only happen when explicitly authorised.

## **Quickstart**

1. `python -m venv .venv` then `\.venv\Scripts\Activate.ps1` on Windows.
2. `pip install -e .[dev]` once dev extras are available, or `pip install -e .` for a minimal setup.
3. `python -m x_make_github_clones_x.x_cls_make_github_clones_x --username ppnw-ai-corp`.
4. Inspect reports under `reports/` for a full audit trail.

## **Quality Gates**

| Check | Command || --- | --- || Formatter | `python -m black .` || Linter | `python -m ruff check .` || Typing | `python -m mypy --package x_make_github_clones_x` || Static Analysis | `python -m pyright` || Tests | `pytest` |

## **Change Control**

- Release notes live in `CHANGELOG.md`.
- Run reports belong in `artifacts/reports/` when you stage evidence for a change control bundle.
- Telemetry normalisation moved to the dedicated `../x_make_telemetry_vector_x` repository.