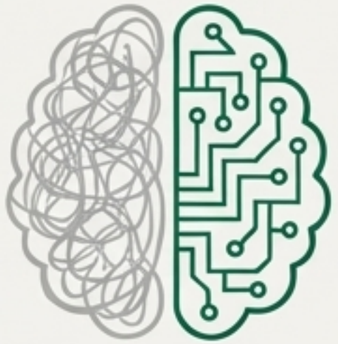


# From Craft to Engineering: Standardizing Prompts for DevOps Teams

Implementing a versioned, multi-level, and validated source of truth for your AI code assistants.

PJ Prompt Unifier

# The Current Chaos: Managing Prompts as a Team

Without a centralized system, prompts and coding rules become a form of technical debt. They are scattered, difficult to maintain, and inconsistent.

### Lack of Standardization

Each developer uses their own variants, leading to heterogeneous results and code quality.

### Lack of Versioning

No traceability of changes. How do you know which version of a prompt generated a specific result?

### Local Files

Precious prompts stored on individual machines, inaccessible to others.

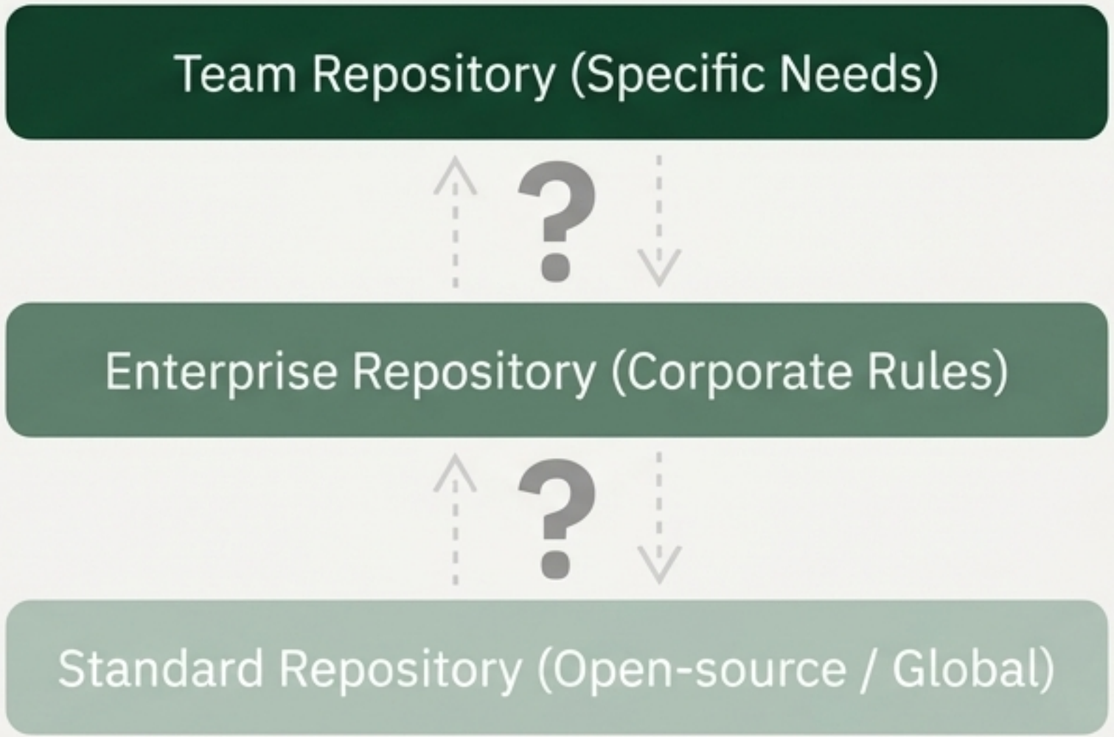
### Wikis and Documentation

Often obsolete, without clear versioning or validation processes.

### Chat Threads

“Magic recipes” shared ephemerally, impossible to find later.

# The Challenge of Governance at Scale




**How do you reconcile global standards, corporate rules, and team-specific needs?**

# The Solution: The Prompt Unifier GitOps Ecosystem

A GitOps approach to prompt management, transforming chaos into a structured, collaborative, and reliable workflow. The ecosystem is built on two pillars: a CLI tool and a repository standard.

### `prompt-unifier` - The Orchestration Engine

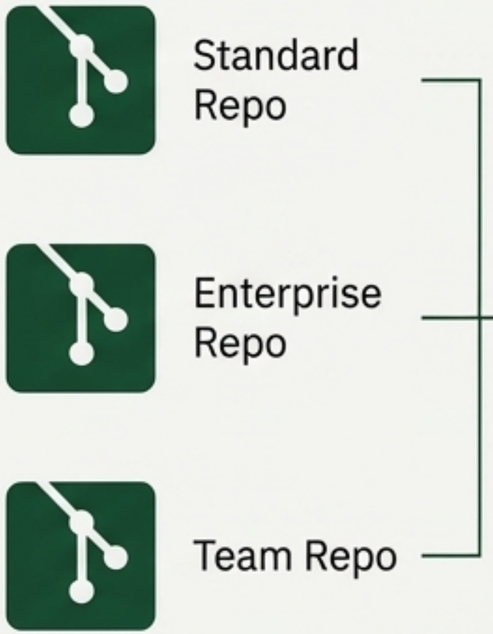
A Python CLI tool to synchronize, validate, and deploy your prompts and rules from multiple sources.

### `prompt-unifier-data` - The Source of Truth

A structured Git repository serving as the centralized, versioned collection for all prompts and rules.

# A Unified Workflow for Multiple Sources

## Phase 1: Remote Git Repositories




## Phase 2: Centralized Local Storage

Synchronize

`~/.prompt-unifier/storage`

Fused prompts and rules. “Last wins” strategy: the team overrides the enterprise, which overrides the standard.

## Phase 3: Active Use

Deploy

Prompts and rules ready for use in your tools (Continue, Kilo Code, etc.)

# Zoom #1: Anatomy of a Data Repository

A clear and predictable structure, consistent across all source repositories (standard, enterprise, team).

```
├── prompts/  // Models to instruct AI
│   ├── airflow/
│   ├── kubernetes/
│   └── python/
└── rules/  // Standards and best practices
    ├── global/
    ├── airflow/
    └── python/
```

## Explanation for `prompts/`

Contains the templates used to instruct AI models for specific tasks (generation, refactoring, analysis, etc.).

## Explanation for `rules/`

Contains the guides, standards, and best practices. These files serve as enriched context for the AI, ensuring that results respect team norms.

# Zoom #2: Anatomy of a Rule: Context and Standards

**rules/airflow/01-airflow-dag-standards.md**

```
---
title: "Airflow DAG Standards"
description: "Core standards for designing and
structuring Airflow DAGs..."
tags: [airflow, dag, standards]
version: 1.0.0
category: "standards"
applies_to: ["dags/**/*.py"]
---
# Airflow DAG Standards

## 1. Core DAG Principles

### Idempotency and Determinism
- **Idempotency**: Every task must be idempotent...
```

### Structured Metadata (YAML Frontmatter)

Allows for categorization, versioning, and filtering of rules. The `applies_to` field links the rule to specific files.

### Readable Content (Markdown)

Easy for humans to write and maintain.

### Context for AI

Can be injected into a prompt to guide code generation according to defined standards.

# Zoom #3: Anatomy of a Prompt: The S.C.A.F.F. Framework

Prompts are templates for instructing an AI. They follow the S.C.A.F.F. framework to ensure clarity, context, and precision.

**S** — **Situation**: What is the starting context?

**C** — **Challenge**: What is the precise task to accomplish?

**A** — **Audience**: Who is the result for?

**F** — **Format**: What is the expected output structure?

**F** — **Foundations**: What are the rules or principles to respect?

prompts/python/01-python-refactoring.md

```
---
title: "Python Refactoring Assistant"
description: "Refactor Python code to improve readability..."
---

You are an expert Python developer...

## Situation
The user provides a piece of Python code...
```

# The CLI in Action (1/3): Multi-Level Synchronization

## ⚙ `init`

Creates a configuration file `.prompt-unifier/config.yaml` and prepares the local storage directory.

```
prompt-unifier init
```

## 🔁 `sync`

Clones or updates prompts from multiple repositories. The ‘last wins’ strategy is ideal for overriding standards.

```
# Sync multiple repos (last one wins)
prompt-unifier sync \

  # 1. Base of standard prompts (open-source)
  --repo https://gitlab.com/waewoo/prompt-unifier-data.git \

  # 2. Enterprise standards (override base)
  --repo https://gitlab.com/my-company/company-prompts.git \

  # 3. Team prompts (override enterprise)
  --repo https://gitlab.com/my-team/team-prompts.git
```

# The CLI in Action (2/3): Verification and Exploration

Validate the syntax and conformity of your files **after* they are merged, and easily explore the available content.

## `validate`

Verifies the YAML frontmatter syntax, the presence of required fields, and the file structure across the entire merged content.

```
# Validate the integrity of the synced storage
prompt-unifier validate

# Validate only prompts with detailed output
prompt-unifier -v validate --type prompts
```

## `list` and `status`

Displays a table of all available prompts/rules. Checks the synchronization status of your repositories.

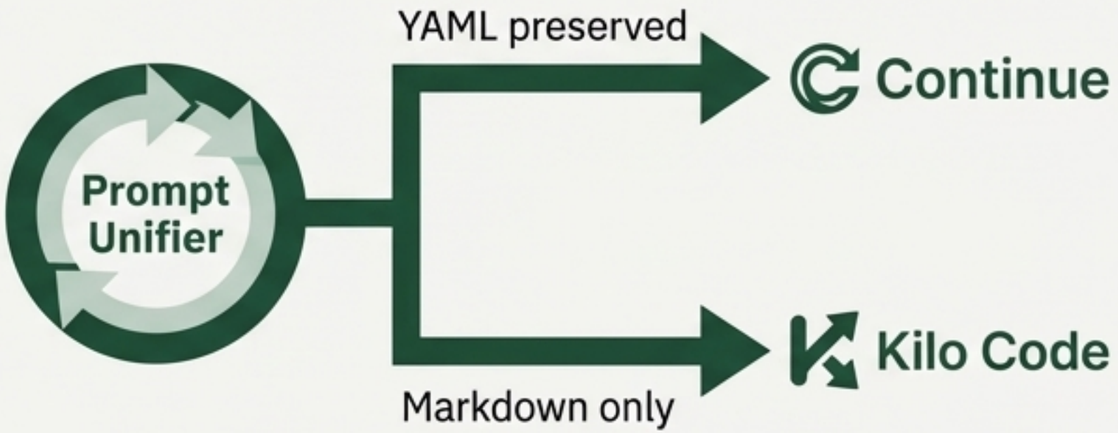
```
# List all content sorted by date
prompt-unifier list --sort date

# Check if new commits are available
prompt-unifier status
```

# The CLI in Action (3/3): Deploying to Your Tools

Deploy your validated prompts and rules to your AI code assistants. The system manages the specifics of each tool via "handlers".

## Supported Handlers

- **Continue**: Full support, preserves YAML frontmatter. Destination: `./.continue/`
- **Kilo Code**: Converts to pure Markdown (no frontmatter). Destination: `./.kilocode/`




## Advanced Deployment Examples

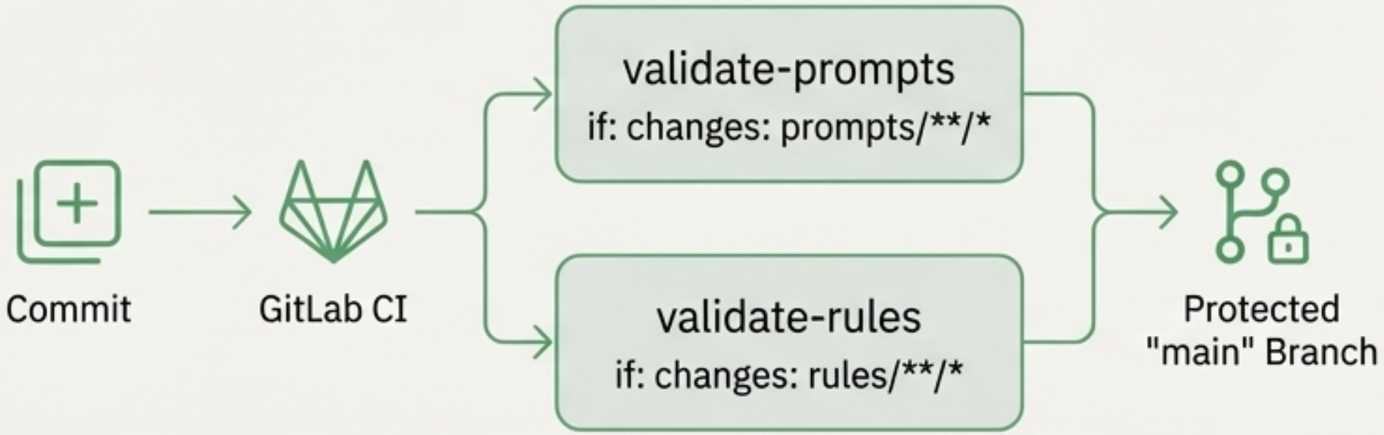
```
# Deploy only prompts tagged "python"
prompt-unifier deploy --tags python

# Deploy to Kilo Code and clean up old files
prompt-unifier deploy --handlers kilocode --clean

# Simulate a deployment to see changes
prompt-unifier deploy --dry-run
```

# Quality at Scale: Continuous Integration (CI/CD)

The `prompt-unifier-data` repository includes a GitLab CI pipeline that guarantees every contribution is automatically validated, preventing errors from reaching the main branch.

## Key Benefits

- **Quality Automation:** No manual validation required.
- **Fast Feedback:** Developers immediately know if their changes are compliant.
- **Confidence and Reliability:** Only valid prompts and rules are merged, ensuring the stability of the source of truth.



# The Transformation: From Prompt Craft to Prompt Engineering

## The Chaos of Prompts

Incoherent, Opaque, Fragile, Isolated

## Prompt Engineering

Standardized, Reliable, Collaborative, Scalable

The Prompt Unifier ecosystem provides the structure and tools necessary to make AI assistance a reliable engineering discipline within your team.

# Take Action: Adopt a Structured Approach

## Quick Start Steps

1. **Install the CLI**

   ```
   pip install prompt-unifier
   ```

2. **Initialize in your project**

   ```
   prompt-unifier init
   ```

3. **Use the example repo as a base**

   Fork the repository to create your own enterprise or team library. https://gitlab.com/waewoo/prompt-unifier-data

## Contribution

This project is open source (MIT License). Your contributions are welcome.

Before submitting, please ensure your changes pass local validation:

```
make validate
```