

AIR Toolkit - Quick Start

Get started with AIR in 5 minutes.

Installation

```
# Clone repository
git clone https://github.com/LiveData-Inc/air-toolkit.git
cd air-toolkit

# Install in development mode
pip install -e .

# Verify installation
air --version
```

Create Your First Project

```
# Create a new assessment project
air init my-review --mode=review

# Change to project directory
cd my-review

# Validate project structure
air validate
```

You now have a complete AIR project:

```
my-review/
├─ air-config.json      # Project configuration
├─ README.md            # Project overview
├─ CLAUDE.md            # AI assistant instructions
├─ .air/                # Task tracking
│   └─ tasks/           # Task files go here
│       └─ context/     # Project context
├─ review/              # Linked resources (symlinks)
├─ analysis/            # Your analysis documents
└─ scripts/             # Helper scripts
```

Quick Commands

Check Status

```
air status                # View project info
air status --format=json  # JSON output for AI
```

Validate Structure

```
air validate              # Check project structure
air validate --format=json # JSON output
```

Task Management

```
# List tasks
air task list                # Active tasks
air task list --all          # Include archived

# Archive old tasks
air task archive --before=2025-09-01 # Archive before date
air task archive --all --dry-run      # Preview archiving
```

Common Workflows

Review Workflow (Analyze Code)

1. Create review project:

```
air init code-review --mode=review
cd code-review
```

2. Link resources (TODO: air link coming soon):

```
# Manually create symlink for now
ln -s ~/repos/target-project review/target-project
```

3. Create task file (AI assistants do this automatically):

```
from datetime import datetime, timezone
from pathlib import Path

timestamp = datetime.now(timezone.utc).strftime("%Y%m%d-%H%M")
task_file = f".air/tasks/{timestamp}-analyze-architecture.md"

Path(task_file).write_text(f"""# Task: Analyze Architecture

## Date
{datetime.now(timezone.utc).strftime('%Y-%m-%d %H:%M UTC')}

## Prompt
Analyze the architecture of target-project

## Actions Taken
1.

## Files Changed
-

## Outcome
🕒 In Progress
""")
```

4. Analyze and document:

- Read code in review/target-project/

- Write analysis to `analysis/assessments/target-project.md`
- Create comparison if reviewing multiple projects

5. **Archive task when done:**

```
air task archive --all
```

Collaborate Workflow (Contribute)

1. **Create collaborative project:**

```
air init docs-improve --mode=collaborate
cd docs-improve
```

2. **Link documentation repositories:**

```
# Manually link for now
ln -s ~/repos/docs-project collaborate/docs-project
```

3. **Identify improvements:**

- Review docs in `collaborate/docs-project/`
- Document gaps in `analysis/improvements/`

4. **Create contributions:**

- Place improved docs in `contributions/docs-project/`
- Follow original structure
- Include clear explanations

5. **Submit** (TODO: `air pr` coming soon):

```
# Manual PR for now
cd collaborate/docs-project
git checkout -b improve-docs
# Copy contributions, commit, push
gh pr create
```

AI Assistant Integration

If you're using **Claude Code** or similar AI assistants:

Check if AIR is available

```
which air
```

Use AIR commands when available

```
# Check project status
air status --format=json

# Validate structure
air validate --format=json

# List tasks
air task list --format=json
```

Task tracking is automatic

AI assistants following the [CLAUDE.md](#) instructions will:

- Create task files for every piece of work
- Update with outcomes
- Archive when appropriate

Project Modes

Review Mode

```
air init project --mode=review
```

- **Purpose:** Analyze codebases (READ-ONLY)
- **Directories:** review/ , analysis/assessments/
- **Use case:** Compare implementations, identify patterns

Collaborate Mode

```
air init project --mode=collaborate
```

- **Purpose:** Contribute improvements
- **Directories:** collaborate/ , contributions/
- **Use case:** Documentation improvements, code contributions

Mixed Mode (Default)

```
air init project --mode=mixed
# or simply:
air init project
```

- **Purpose:** Both review and collaborate
- **Directories:** All of the above
- **Use case:** Complex assessments with some contributions

Task Archiving

Keep `.air/tasks/` organized:

```
# Archive tasks older than 30 days
air task archive --before=2025-09-01
```

```
# Archive all tasks (preview first)
air task archive --all --dry-run
air task archive --all
```

```
# View archive statistics
air task archive-status
```

```
# Restore if needed
air task restore 20251003-1430
```

Archived tasks move to `.air/tasks/archive/YYYY-MM/` and remain accessible with `air task list --all`.

JSON Output

All status commands support `--format=json` for AI parsing:

```
air status --format=json
air validate --format=json
air task list --format=json
air task archive-status --format=json
```

Next Steps

- **Read full docs:** See `docs/` directory
 - `COMMANDS.md` - Complete command reference
 - `SPECIFICATION.md` - Feature specifications
 - `AI-INTEGRATION.md` - AI assistant integration guide
 - `TASK-ARCHIVE-DESIGN.md` - Task archiving details
- **Example project:** Try the workflows above with a real repository
- **AI integration:** Use with Claude Code or similar AI assistants
- **Contribute:** See `DEVELOPMENT.md` for contributing guidelines

Getting Help

```
# Command help
air --help
air init --help
air task --help
```

```
# Documentation
cat docs/COMMANDS.md
```

```
# Report issues
https://github.com/LiveData-Inc/air-toolkit/issues
```

Quick Reference

Command	Description
<code>air init <name></code>	Create new project
<code>air validate</code>	Validate project structure

Command	Description
<code>air status</code>	Show project status
<code>air task list</code>	List active tasks
<code>air task list --all</code>	Include archived tasks
<code>air task archive --all</code>	Archive all tasks
<code>air task restore <id></code>	Restore archived task
<code>air task archive-status</code>	Show archive stats

Ready to dive deeper? Check out the [full documentation](#) or try creating your first assessment project!