

Stride Configuration Spec

Version: S3.7.0-D1

An **in-depth reference** for authoring configuration files for **Stride**, walking you through every section, field, pattern rule, and real-world tip. Use the detailed examples and "gotchas" to ensure your config files behave exactly as you expect.

Multi-Format Support

Stride now supports multiple configuration formats:

- **YAML** (default) - `.yaml`, `.yml`
- **JSON** - `.json`
- **TOML** - `.toml`
- **XML** - `.xml`

Format Detection

Stride automatically detects your configuration format based on the file extension:

```
# Auto-detected formats
stride extract -c config.yaml    # YAML
stride extract -c config.json    # JSON
stride extract -c config.toml    # TOML
stride extract -c config.xml     # XML
```

Manual Format Override

Use the `--override-type-detection` flag to force a specific format:

```
# Force YAML parsing even with different extension
stride extract -c myconfig.txt --override-type-detection=yaml

# Force JSON parsing
stride extract -c settings.cfg --override-type-detection=json

# Force TOML parsing (case insensitive)
stride extract -c build.conf --override-type-detection=TOML

# Force XML parsing
stride extract -c settings.cfg --override-type-detection=xml
```

Supported override values: `yaml`, `yml`, `json`, `toml`, `xml` (case insensitive)

Configuration Format Examples

The same configuration can be written in any supported format:

YAML Example

```

output_structure:
  "#/images":
    description: "Artwork & screens"
    create: true

zip_sources:
  - url: "https://example.com/archive.zip"
    name: "Example Archive"
    target_dir: "#/data"
    include_directories: ["src", "docs"]

```

JSON Example

```

{
  "output_structure": {
    "#/images": {
      "description": "Artwork & screens",
      "create": true
    }
  },
  "zip_sources": [
    {
      "url": "https://example.com/archive.zip",
      "name": "Example Archive",
      "target_dir": "#/data",
      "include_directories": ["src", "docs"]
    }
  ]
}

```

TOML Example

```

[output_structure."#/images"]
description = "Artwork & screens"
create = true

[[zip_sources]]
url = "https://example.com/archive.zip"
name = "Example Archive"
target_dir = "#/data"
include_directories = ["src", "docs"]

```

XML Example

```

<?xml version="1.0" encoding="UTF-8"?>
<root>
  <output_structure>
    <dir path="#/images">
      <description>Artwork & screens</description>
      <create>true</create>
    </dir>
  </output_structure>
  <zip_sources>
    <url>https://example.com/archive.zip</url>
    <name>Example Archive</name>
    <target_dir>#/data</target_dir>
    <include_directories>src, docs</include_directories>
  </zip_sources>
</root>

```

```
</output_structure>
<zip_sources>
  <source>
    <url>https://example.com/archive.zip</url>
    <name>Example Archive</name>
    <target_dir>#/data</target_dir>
    <include_directories>
      <directory>src</directory>
      <directory>docs</directory>
    </include_directories>
  </source>
</zip_sources>
</root>
```

Format-Specific Conventions

YAML Conventions

1. **Indentation:** Always use **2 spaces** per level—no tabs.
2. **Strings & Quoting:** URLs and simple keys rarely need quotes. If a string contains `:`, `#`, leading/trailing whitespace or special characters, wrap it in double quotes.
3. **Comments:** Use `#` for comments—YAML will ignore everything after it on the line.

JSON Conventions

1. **No Comments:** JSON doesn't support comments.
2. **Strict Syntax:** All strings must be quoted, no trailing commas allowed.
3. **Escaping:** Use `\` for quotes within strings, `\\` for backslashes.

TOML Conventions

1. **Comments:** Use `#` for comments like YAML.
2. **Tables:** Use `[section]` for objects, `[[array]]` for arrays of objects.
3. **Strings:** Basic strings use double quotes, literal strings use single quotes.

XML Conventions

1. **Comments:** Use `<!-- comment -->` for comments.
2. **Attributes vs Elements:** Use `path` attribute for directory keys, elements for values.
3. **Escaping:** Use `&` for `&`, `<` for `<`, `>` for `>`, `"` for `"`.
4. **Boolean Values:** Use `true` / `false` as text content.
5. **Arrays:** Repeat element names for array items (e.g., multiple `<source>` elements).

1. `output_structure` : Pre-Create Directories

This block lets you declare **named output folders** you want created before any downloads start. It's purely "mkdir-style" bookkeeping.

YAML:

```
output_structure:
  "#/images":
```

```
description: "Artwork & screens"
create: true
"#/archives/raw":
  description: "Raw ZIPs for diagnostics"
  create: true
"#/cache":
  description: "Caching internal files"
  create: false
```

JSON:

```
{
  "output_structure": {
    "#/images": {
      "description": "Artwork & screens",
      "create": true
    },
    "#/archives/raw": {
      "description": "Raw ZIPs for diagnostics",
      "create": true
    },
    "#/cache": {
      "description": "Caching internal files",
      "create": false
    }
  }
}
```

TOML:

```
[output_structure."#/images"]
description = "Artwork & screens"
create = true

[output_structure."#/archives/raw"]
description = "Raw ZIPs for diagnostics"
create = true

[output_structure."#/cache"]
description = "Caching internal files"
create = false
```

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<root>
  <output_structure>
    <dir path="#/images">
      <description>Artwork & screens</description>
      <create>true</create>
    </dir>
    <dir path="#/archives/raw">
      <description>Raw ZIPs for diagnostics</description>
```

```

    <create>true</create>
  </dir>
  <dir path="#/cache">
    <description>Caching internal files</description>
    <create>false</create>
  </dir>
</output_structure>
</root>

```

- **Key syntax:**

- `#` will be replaced by the CLI's `--output` directory (e.g. if you pass `--output=build`, `"#/images"` → `build/images`).
- You can nest arbitrarily: `"#/foo/bar/baz"`.

- **Fields:**

- `description` (*string*): for your logs & team reference.
- `create` (*boolean*): if `true`, Stride runs `fs::create_dir_all()` here.

- **When to use:**

- Guarantee folder existence for subsequent extraction.
- Document your output layout for teammates.

2. `zip_sources` : Download & Extract ZIP Archives

Each entry in `zip_sources` follows this full schema:

YAML:

```

zip_sources:
- url: "https://example.com/archive.zip" # (required) download link
  name: "Example Archive" # (required) identifier
  target_dir: "#/data" # where to extract; default "#"
  include_files: ["README.md", "LICENSE"] # exact filenames to whitelist
  exclude_files: ["debug.log", "secret.txt"] # exact filenames to blacklist
  include_patterns: ["*.so", "bin/*"] # glob patterns to whitelist
  exclude_patterns: ["*_test.rs", "old_*"] # glob patterns to blacklist
  include_directories: ["src", "docs"] # exact directory paths to whitelist
  exclude_directories: ["test", "examples"] # exact directory paths to blacklist
  preserve_structure: true # keep internal directory tree?
  strip_root_folder: "archive-main" # Use this directory as archive root instead

```

Note: `include_*` and `exclude_*` can never coexist.

JSON:

```

{
  "zip_sources": [
    {
      "url": "https://example.com/archive.zip",
      "name": "Example Archive",
      "target_dir": "#/data",
      "include_files": ["README.md", "LICENSE"],

```

```

    "exclude_files": ["debug.log", "secret.txt"],
    "include_patterns": ["*.so", "bin/*"],
    "exclude_patterns": ["*_test.rs", "old_*"],
    "include_directories": ["src", "docs"],
    "exclude_directories": ["test", "examples"],
    "preserve_structure": true,
    "strip_root_folder": "archive-main"
  }
]
}

```

TOML:

```

[[zip_sources]]
url = "https://example.com/archive.zip"
name = "Example Archive"
target_dir = "#/data"
include_files = ["README.md", "LICENSE"]
exclude_files = ["debug.log", "secret.txt"]
include_patterns = ["*.so", "bin/*"]
exclude_patterns = ["*_test.rs", "old_*"]
include_directories = ["src", "docs"]
exclude_directories = ["test", "examples"]
preserve_structure = true
strip_root_folder = "archive-main"

```

XML:

```

<zip_sources>
  <source>
    <url>https://example.com/archive.zip</url>
    <name>Example Archive</name>
    <target_dir>#/data</target_dir>
    <include_files>
      <file>README.md</file>
      <file>LICENSE</file>
    </include_files>
    <exclude_files>
      <file>debug.log</file>
      <file>secret.txt</file>
    </exclude_files>
    <include_patterns>
      <pattern>*.so</pattern>
      <pattern>bin/*</pattern>
    </include_patterns>
    <exclude_patterns>
      <pattern>*_test.rs</pattern>
      <pattern>old_*</pattern>
    </exclude_patterns>
    <include_directories>
      <directory>src</directory>
      <directory>docs</directory>
    </include_directories>
  </source>
</zip_sources>

```

```

<exclude_directories>
  <directory>test</directory>
  <directory>examples</directory>
</exclude_directories>
<preserve_structure>true</preserve_structure>
<strip_root_folder>archive-main</strip_root_folder>
</source>
</zip_sources>

```

2.1 Extraction Flow & Precedence

1. **Download** via `request::get()` .
2. **Iterate** over every entry in the ZIP.
3. **Skip** if `file.is_dir()` .
4. **Exclude checks** (highest priority):
 - If `exclude_files` contains the filename → drop.
 - If any `exclude_patterns` match the filename or path → drop.
 - If `exclude_directories` contains any parent directory in the file's path → drop.
5. **Include checks** (only if enabled):
 - If `include_files` is non-empty → file must appear there.
 - If `include_patterns` is non-empty → file must match at least one glob.
 - If `include_directories` is non-empty → file must be within one of these directories.
6. **Extract** to the computed path, creating parents as needed.

2.2 Directory Filtering Details

Directory filtering uses **exact path matching** to prevent partial matches:

- **Exact matching:** "src" matches files in `src/` but **not** `src-backup/` or `my-src/` .
- **Path normalization:** Paths are normalized before comparison (e.g., `src/` becomes `src`).
- **Nested directories:** A file at `src/core/main.rs` matches both "src" and "src/core" directory filters.

Examples of directory matching:

File Path in ZIP	include_directories	exclude_directories	Result
src/main.rs	["src"]	[]	☐ Include
src-backup/old.rs	["src"]	[]	☐ Exclude
test/unit.rs	["src"]	["test"]	☐ Exclude
docs/README.md	["src", "docs"]	[]	☐ Include
examples/demo.rs	["src"]	["examples"]	☐ Exclude

2.3 Field Reference

Field	Type	Default	Example & Notes
url	string	required	https://.../project-v1.zip

name	string	required	"Project v1.0 Release"
target_dir	string	"#"	"#/libs/project" → extracts into output/libs/project
include_files	[string]	[]	["README.md", "LICENSE"]
exclude_files	[string]	[]	["debug.log", "secret.txt"]
include_patterns	[glob]	[]	["*.so", "bin/*"]
exclude_patterns	[glob]	[]	["_test.rs", "old_*", "docs/*.pdf"]
include_directories	[string]	[]	["src", "docs", "lib"] - exact directory path matching
exclude_directories	[string]	[]	["test", "examples", "bench"] - exact directory path matching
preserve_structure	boolean	false	true → keeps subfolders (src/foo.rs stays in src/, not flattened)

3. file_sources : One-Off File Downloads

Use `file_sources` to pull single files (configs, scripts, binaries). Each entry now also requires a `name` for logging and identification.

YAML:

```
file_sources:
  - url: "https://example.com/scripts/deploy.sh"
    name: "Deploy Script"
    target_path: "#/bin"
    rename_to: "qwik-deploy"
  - url: "https://example.com/configs/app.yaml"
    name: "App Config"
    target_path: "#"
```

JSON:

```
{
  "file_sources": [
    {
      "url": "https://example.com/scripts/deploy.sh",
      "name": "Deploy Script",
      "target_path": "#/bin",
      "rename_to": "qwik-deploy"
    },
    {
      "url": "https://example.com/configs/app.yaml",
      "name": "App Config",
      "target_path": "#"
    }
  ]
}
```


TOML :

```
[[file_sources]]
url = "https://example.com/scripts/deploy.sh"
name = "Deploy Script"
target_path = "#/bin"
rename_to = "qwik-deploy"

[[file_sources]]
url = "https://example.com/configs/app.yaml"
name = "App Config"
target_path = "#"
```

XML :

```
<file_sources>
  <source>
    <url>https://example.com/scripts/deploy.sh</url>
    <name>Deploy Script</name>
    <target_path>#/bin</target_path>
    <rename_to>qwik-deploy</rename_to>
  </source>
  <source>
    <url>https://example.com/configs/app.yaml</url>
    <name>App Config</name>
    <target_path>#</target_path>
  </source>
</file_sources>
```

Field	Type	Default	Behavior
url	string	required	Full HTTP(S) URL to fetch.
name	string	required	Short identifier for logs and grouping (e.g. "App Config").
target_path	string	"#"	Template for directory or full path; # means "root".
rename_to	string?	none	If provided, replaces the filename portion after path substitution.

2. zip_sources : Download & Extract ZIP Archives (with strip_root_folder)

Each entry in zip_sources follows this full schema (now including strip_root_folder):

YAML :

```
zip_sources:
- url: "https://example.com/archive.zip" # (required)
  name: "Example Archive" # (required)
```

```
target_dir: "#/data"           # default "#"
include_files: ["README.md"]   # optional
exclude_files: []              # optional
include_patterns: []           # optional
exclude_patterns: []           # optional
include_directories: []        # optional
exclude_directories: []        # optional
preserve_structure: true       # default: false
strip_root_folder: "archive-main" # optional; remove this top-level folder
when extracting
```

JSON:

```
{
  "zip_sources": [
    {
      "url": "https://example.com/archive.zip",
      "name": "Example Archive",
      "target_dir": "#/data",
      "preserve_structure": true,
      "strip_root_folder": "archive-main"
    }
  ]
}
```

TOML:

```
[[zip_sources]]
url = "https://example.com/archive.zip"
name = "Example Archive"
target_dir = "#/data"
preserve_structure = true
strip_root_folder = "archive-main"
```

XML:

```
<zip_sources>
  <source>
    <url>https://example.com/archive.zip</url>
    <name>Example Archive</name>
    <target_dir>#/data</target_dir>
    <preserve_structure>true</preserve_structure>
    <strip_root_folder>archive-main</strip_root_folder>
  </source>
</zip_sources>
```

Field	Type	Default	Notes
url	string	required	Download link.
name	string	required	Identifier for logs (e.g. "Example Archive").
target_dir	string	"#"	Destination directory template.

include_files	[string]	[]	Exact filenames to whitelist.
exclude_files	[string]	[]	Exact filenames to blacklist.
include_patterns	[glob]	[]	Glob patterns to whitelist.
exclude_patterns	[glob]	[]	Glob patterns to blacklist.
include_directories	[string]	[]	Exact directory paths to whitelist.
exclude_directories	[string]	[]	Exact directory paths to blacklist.
preserve_structure	boolean	false	true preserves internal folder hierarchy, false flattens all files.
strip_root_folder	string?	none	Name of top-level folder to strip (e.g. GitHub repo-main). Optional.

4. Filtering Rules & Validation

4.1 Filter Precedence (Highest to Lowest)

1. Exclude filters (any match = exclude):

- `exclude_files` - exact filename matches
- `exclude_patterns` - glob pattern matches
- `exclude_directories` - exact directory path matches

2. Include filters (all enabled filters must match):

- `include_files` - if non-empty, filename must be listed
- `include_patterns` - if non-empty, must match at least one pattern
- `include_directories` - if non-empty, must be within listed directories

4.2 Configuration Validation

Stride validates configurations at startup to prevent conflicting rules:

Invalid: Conflicting file rules

```
zip_sources:
- url: "https://example.com/archive.zip"
  name: "Invalid Example"
  include_files: ["README.md"]
  exclude_files: ["README.md"] # ERROR: Same file in both lists
```

Invalid: Conflicting directory rules

```
zip_sources:
- url: "https://example.com/archive.zip"
  name: "Invalid Example"
  include_directories: ["src"]
  exclude_directories: ["src"] # ERROR: Same directory in both lists
```

Invalid: Conflicting nested directories

```
zip_sources:
- url: "https://example.com/archive.zip"
  name: "Invalid Example"
  include_directories: ["src"]
  exclude_directories: ["src/test"] # ERROR: Nested conflict
```

Valid: Non-conflicting rules

```
zip_sources:
- url: "https://example.com/archive.zip"
  name: "Valid Example"
  include_directories: ["src", "docs"]
  exclude_directories: ["test", "examples"]
  exclude_files: ["src/debug.log"] # OK: Specific file exclusion
```

4.3 Directory Matching Algorithm

```
// Pseudocode for directory matching
fn file_matches_directory_filter(file_path: &str, directories: &[String]) -> bool {
  let normalized_path = normalize_path(file_path);

  for dir in directories {
    let normalized_dir = normalize_path(dir);

    // Check if file is directly in this directory
    if normalized_path.starts_with(&format!("{}", normalized_dir)) {
      return true;
    }

    // Check if file is in root and directory filter is for root
    if normalized_dir.is_empty() && !normalized_path.contains('/') {
      return true;
    }
  }

  false
}
```

5. Glob Patterns Deep Dive

Stride's simple glob rules operate on the **file name** (or full **relative path** when preserving structure):

Pattern	Matches
*	everything
*.ext	any name ending in .ext
prefix*	any name starting with prefix
*suffix	any name ending with suffix

?	exactly one arbitrary character
docs/*	any file directly under docs/
docs/**/*.md (not supported)	<i>recursive globs</i> are not yet supported—only single-segment <code>*</code> .

6. Complete Multi-Format Example

Here's a realistic configuration with directory filtering shown in all four formats:

YAML Version

```
# Node.js deployment with directory filtering
output_structure:
  "#/logs":
    description: "Runtime logs"
    create: true
  "#/temp":
    description: "Temp files"
    create: true

zip_sources:
- url: "https://nodejs.org/dist/v18.14.0/node-v18.14.0-win-x64.zip"
  name: "NodeJS v18.14.0 Win64"
  target_dir: "#/bin"
  include_directories: ["bin", "lib"]
  exclude_directories: ["share/doc", "share/man"]
  include_patterns:
    - "*.exe"
    - "*.dll"
  exclude_patterns:
    - "nodevars.bat"
  preserve_structure: false

file_sources:
- url: "https://example.com/app/config.json"
  target_path: "#/conf"
  rename_to: "app-config.json"
```

JSON Version

```
{
  "output_structure": {
    "#/logs": {
      "description": "Runtime logs",
      "create": true
    },
    "#/temp": {
      "description": "Temp files",
      "create": true
    }
  },
  "zip_sources": [
    {
      "url": "https://nodejs.org/dist/v18.14.0/node-v18.14.0-win-x64.zip",
      "name": "NodeJS v18.14.0 Win64",
      "target_dir": "#/bin",
      "include_directories": ["bin", "lib"],
      "exclude_directories": ["share/doc", "share/man"],
      "include_patterns": ["*.exe", "*.dll"],
      "exclude_patterns": ["nodevars.bat"],
      "preserve_structure": false
    }
  ],
  "file_sources": [
    {
      "url": "https://example.com/app/config.json",
      "target_path": "#/conf",
      "rename_to": "app-config.json"
    }
  ]
}
```

```

    }
  },
  "zip_sources": [
    {
      "url": "https://nodejs.org/dist/v18.14.0/node-v18.14.0-win-x64.zip",
      "name": "NodeJS v18.14.0 Win64",
      "target_dir": "#/bin",
      "include_directories": ["bin", "lib"],
      "exclude_directories": ["share/doc", "share/man"],
      "include_patterns": ["*.exe", "*.dll"],
      "exclude_patterns": ["nodevars.bat"],
      "preserve_structure": false
    }
  ],
  "file_sources": [
    {
      "url": "https://example.com/app/config.json",
      "target_path": "#/conf",
      "rename_to": "app-config.json"
    }
  ]
}

```

TOML Version

```

# Node.js deployment with directory filtering

[output_structure."#/logs"]
description = "Runtime logs"
create = true

[output_structure."#/temp"]
description = "Temp files"
create = true

[[zip_sources]]
url = "https://nodejs.org/dist/v18.14.0/node-v18.14.0-win-x64.zip"
name = "NodeJS v18.14.0 Win64"
target_dir = "#/bin"
include_directories = ["bin", "lib"]
exclude_directories = ["share/doc", "share/man"]
include_patterns = ["*.exe", "*.dll"]
exclude_patterns = ["nodevars.bat"]
preserve_structure = false

[[file_sources]]
url = "https://example.com/app/config.json"
target_path = "#/conf"
rename_to = "app-config.json"

```

XML Version

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Node.js deployment with directory filtering -->
<root>
  <output_structure>
    <dir path="#/logs">
      <description>Runtime logs</description>
      <create>true</create>
    </dir>
    <dir path="#/temp">
      <description>Temp files</description>
      <create>true</create>
    </dir>
  </output_structure>

  <zip_sources>
    <source>
      <url>https://nodejs.org/dist/v18.14.0/node-v18.14.0-win-x64.zip</url>
      <name>NodeJS v18.14.0 Win64</name>
      <target_dir>#/bin</target_dir>
      <include_directories>
        <directory>bin</directory>
        <directory>lib</directory>
      </include_directories>
      <exclude_directories>
        <directory>share/doc</directory>
        <directory>share/man</directory>
      </exclude_directories>
      <include_patterns>
        <pattern>*.exe</pattern>
        <pattern>*.dll</pattern>
      </include_patterns>
      <exclude_patterns>
        <pattern>nodevars.bat</pattern>
      </exclude_patterns>
      <preserve_structure>false</preserve_structure>
    </source>
  </zip_sources>

  <file_sources>
    <source>
      <url>https://example.com/app/config.json</url>
      <target_path>#/conf</target_path>
      <rename_to>app-config.json</rename_to>
    </source>
  </file_sources>
</root>

```

7. Validation & Troubleshooting

Format-Specific Validation

- **YAML:** Use `yamllint config.yaml` to catch syntax issues.

- **JSON:** Use `jsonlint config.json` or any JSON validator.
- **TOML:** Use `toml-validator config.toml` or similar tools.
- **XML:** Use `xmllint config.xml` or any XML validator to check well-formedness.

Common Issues

- **Serde errors:** Stride will print which field/line was invalid.
- **Empty extractions:** Check your `include_*` vs. `exclude_*` overlap.
- **Directory conflicts:** Validation will catch conflicting include/exclude directory rules.
- **Partial directory matches:** Remember that directory filtering uses exact path matching.
- **Format detection:** Use `--override-type-detection` if auto-detection fails.
- **XML escaping:** Remember to escape `&`, `<`, `>` in XML content.
- **Verbose logging:** Stride prints each "Created directory" and "Extracted" line.

Directory Filtering Debugging

- **Enable verbose logging** to see which files are being filtered and why.
- **Check directory path normalization** - paths are normalized before matching.
- **Verify exact matches** - `"src"` won't match `"src-backup"` or `"my-src"`.
- **Review nested rules** - ensure parent/child directory rules don't conflict.

8. Tips & Best Practices

Format Selection

- **YAML:** Best for human readability, comments, and complex configurations.
- **JSON:** Best for programmatic generation and web API integration.
- **TOML:** Best for simple, clear configurations with good readability.
- **XML:** Best for structured data exchange, validation with schemas, and integration with XML-based systems.

Directory Filtering Best Practices

- **Use exact paths:** Specify complete directory names to avoid unintended matches.
- **Test with verbose output:** Use logging to verify filtering behavior.
- **Avoid conflicts:** Don't put the same directory in both include and exclude lists.
- **Layer your filters:** Combine directory filtering with file/pattern filtering for precision.
- **Document your intent:** Use clear directory names and add comments explaining the filtering logic.

General Tips

- **Comments:** Use them liberally in YAML, TOML, and XML (JSON doesn't support comments).
 - **Validation:** Always validate your config files before deployment.
 - **Version pinning:** Include exact URLs with version numbers for reproducible builds.
 - **Testing:** Use `--override-type-detection` to test the same config in different formats.
 - **Migration:** You can convert between formats using online converters or tools.
 - **XML namespaces:** Not currently supported—keep XML simple and flat.
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9. CLI Reference

Basic Usage

```
# Auto-detect format
stride extract -c config.yaml

# Specify output directory
stride extract -c config.json -o build

# Override format detection
stride extract -c myconfig.txt --override-type-detection=toml

# Use XML format
stride extract -c config.xml

# Enable verbose logging for debugging filters
stride extract -c config.yaml -v

# Use an online config (note: x is an alias for extract)
stride x -c https://example.com/config.yaml

# Use an online config, autodetect type
stride x -c https://myconfig.tpglit.ch

# Use an online config, override detection
stride x -c https://myconfig.tpglit.ch --override-type-detection=toml
```

Format Override Options

- `yaml` or `yml` - Parse as YAML
- `json` - Parse as JSON
- `toml` - Parse as TOML
- `xml` - Parse as XML
- Case insensitive: `YAML`, `Json`, `Toml`, `XML` all work

With this comprehensive guide, you can now craft **robust**, **readable**, and **precise** configuration files for Stride in any supported format—whether you're orchestrating a handful of file grabs or automating a multi-step, multi-ZIP build pipeline. The new directory filtering capabilities provide fine-grained control over which parts of ZIP archives get extracted, with built-in validation to prevent configuration conflicts. Happy brewing!