66

TRYING TO MANAGE TERMINOLOGY ON THE INTERNET IS HELL.

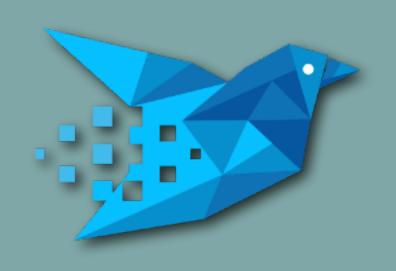
— Darrell O'Donnell

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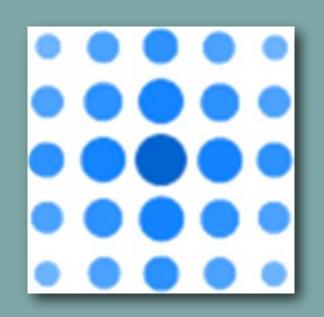












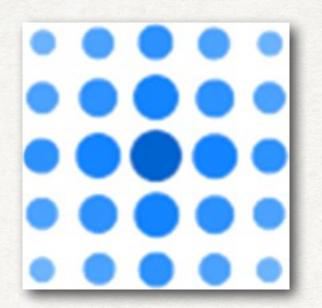
START BUILDING CONSENSUS TODAY SPEC-UP-T

Henk van Cann, Blockchainbird, @henkvancann





MHAs



OPEN-SOURCE "EASY PEAZY" TECHNICAL SPECIFICATION

DANIEL BUCHNER, INVENTOR





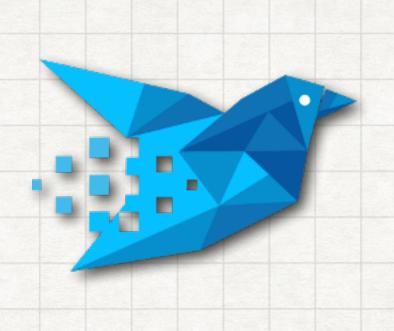




AGAIN, WHY?

- 1.TEXT
- 2.IMAGES
- 3.REFERENCES
- 4.TERMS
- 5.SINGLE PAGE
- 6.WEBBASED
- 7. VERSIONED
- 8. HARVEST DEFINITIONS
- 9.NORMATIVE/INFORMATIVE LINKING
- 10.COMMANDLINE & GUI

DANIEL BUCHNER, INVENTOR KOR DWARSHUIS, DEVELOPER







OKAY, ONE LAST TRY, WHY?



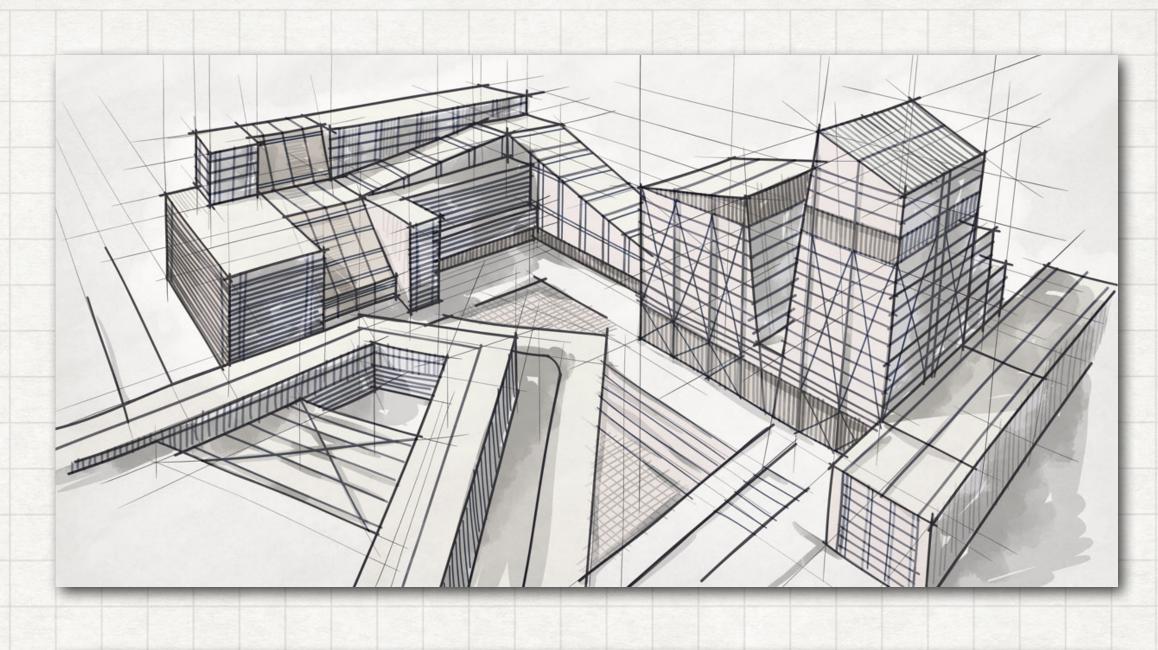
WE'RE PART OF A COMMUNITY
WE'D LIKE TO BUILD CONSENSUS
ABOUT A NEW IDEA
WITH ANYONE.

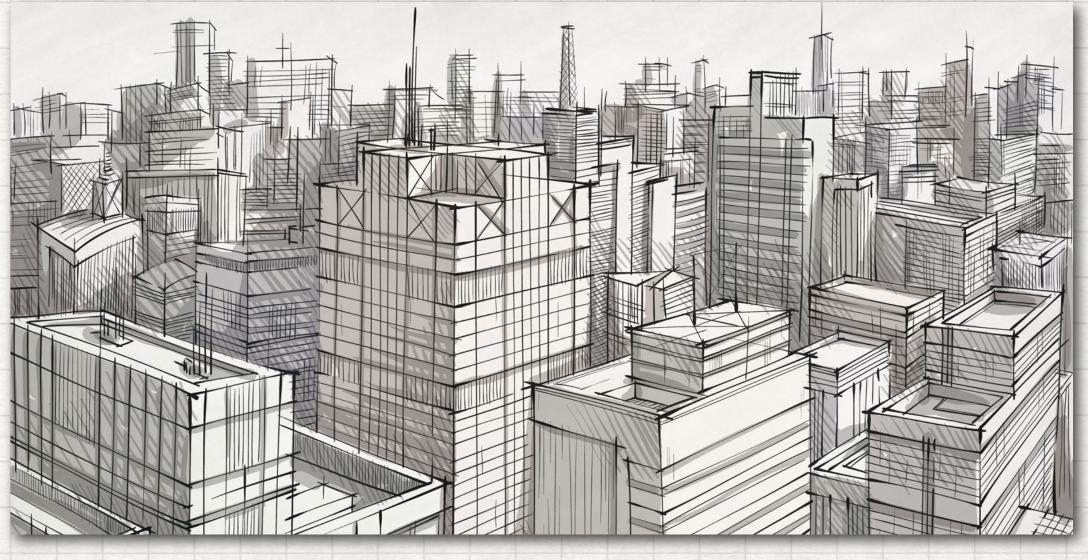


















MARKDOWN

READABLE AND WRITEABLE SOURCE, AUTO-CONVERTIBLE

- Markdown
- Spec-Up tags
- Spec-Up-T preprocessing
- GitHub Pages presentation
- DocX and PDF make-over









GITHUB PAGES

WEBPAGES, EDIT FUNCTIONALITY, ACTION SCRIPT, VERSIONED

- Git
- Remote and local
- Spec-Up-T preprocessing in GitHub Actions
- GitHub Pages presentation
- Up-time and global presence

AGAIN, WHY? 1.TEXT 2.IMAGES 3.REFERENCES 4.TERMS 5.SINGLE PAGE 6.WEBBASED 7.VERSIONED 8.HARVEST DEFINITIONS 9.NORMATIVE/INFORMATIVE LINKING 10.COMMANDLINE & GUI









SPEC-UP-T TAGS

DEF, REF, XREF, TREF, IREF, SPEC

- Define terms
- Reference terms locally
- XReference terms externally
- Transclude definitions (Tref)
- Use Tobie's spec clearinghouse

AGAIN, WHY?

- 1.TEXT
- 2.IMAGES
- 3.REFERENCES
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- Reference and trust
- Link and pray
- Check broken links
- Spec-Up-T Health checks

LINKING

AGAIN, WHY?

1.TEXT

2.IMAGES

3.REFERENCES

4.TERMS

5.SINGLE PAGE

6.WEBBASED

7. VERSIONED

8. HARVEST DEFINITIONS

9.NORMATIVE/INFORMATIVE LINKING

10.COMMANDLINE & GUI









WEB VERSION OF SPEC-UP-T

- Original Spec-Up: commandline
- GitHub standard functionality
- GitHub API custom-made functions
- GitHub Actions to generate
- User manual

AGAIN, WHY?

- 1.TEXT
- 2.IMAGES
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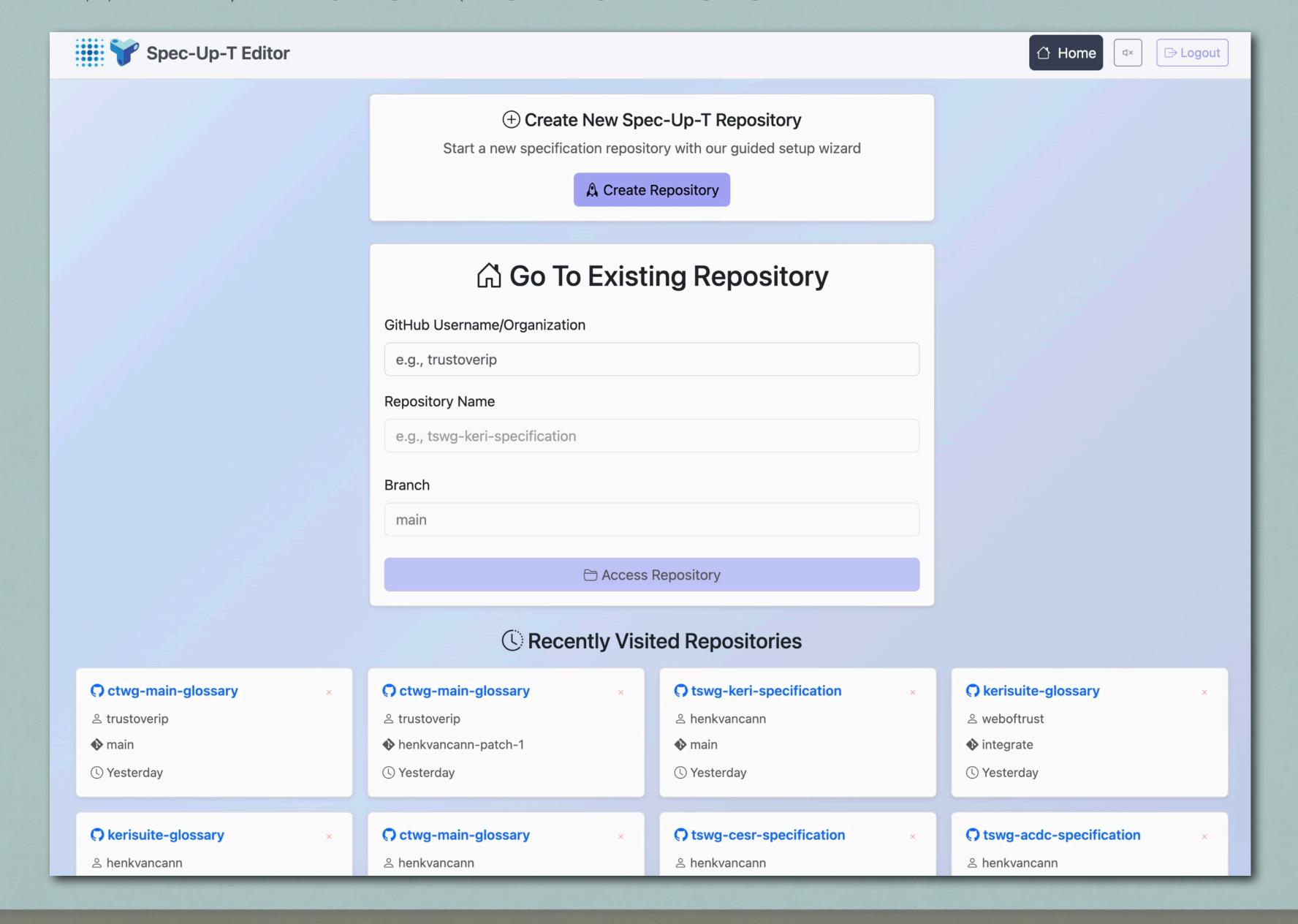


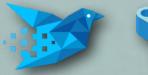






WEB VERSION OF SPEC-UP-T

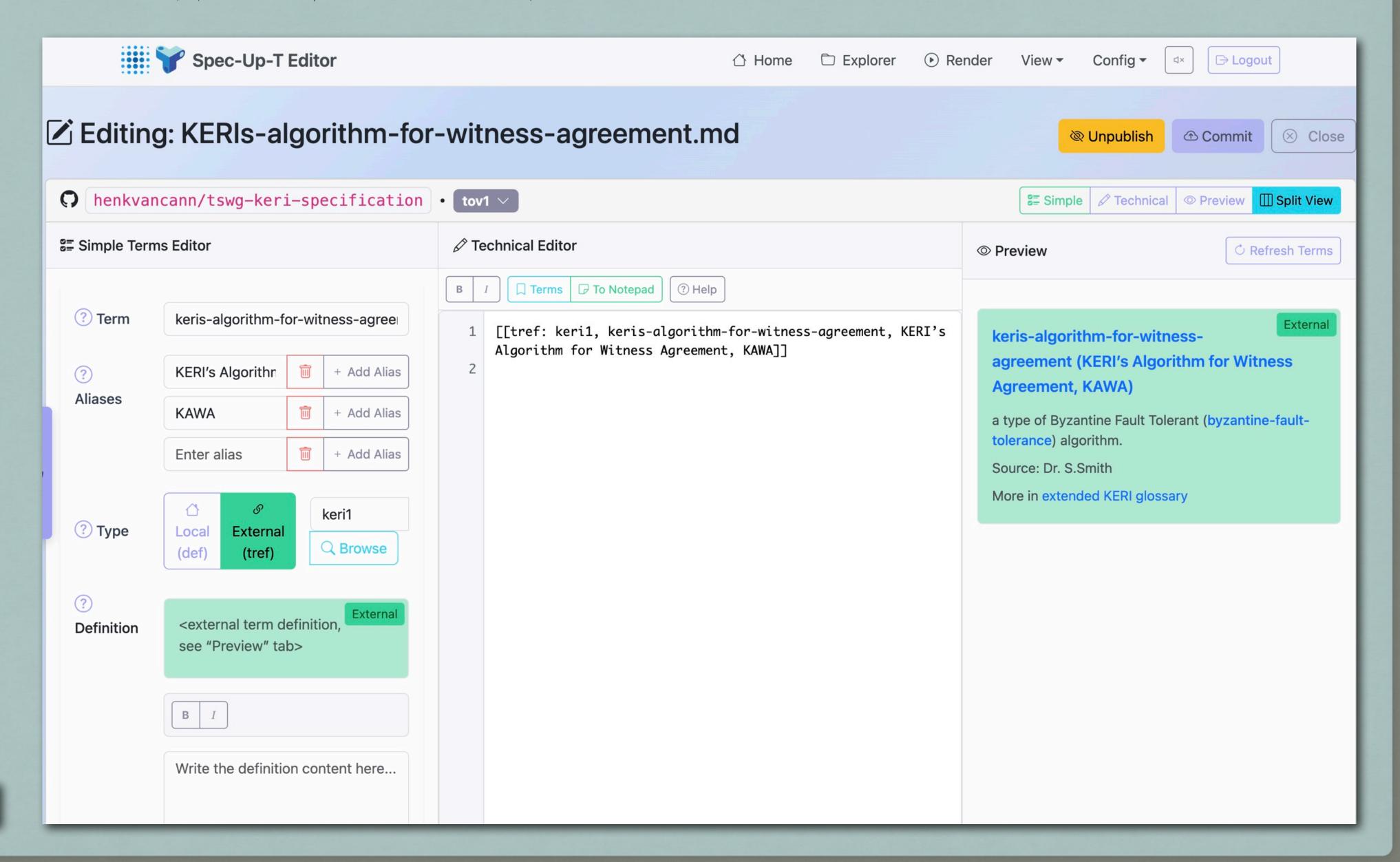


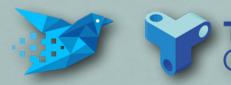






WEB VERSION OF SPEC-UP-T







[[def:]]

- Term in Key format
- How do you spell it
- Abbreviations and other aliases
- ~ {definition text}

You READ the full text
On click you GO TO links

Example

[[def: self-certifying-identifier, Self Certifying Identifier, SCID]]

- Key = <lowercase and in between>
- Optional: Alias 1 = how the term will be presented
- Optional: Alias 2...n = how you can reference the term definition
- ~ definition text

§ JSON Serialization (rfc7515, JSON-serialization)













See https://datatracker.ietf.org/doc/html/rfc7515#section-3.2 □.

[[tref:]]

(transclusion reference/definition)

- Mnemonic Specification
- Term in Key format
- How do you spell it
- Abbreviations and other aliases
- ~ {definition text}

You READ the full text
On click you GO TO links

Example

[[tref: toip1, self-certifying-identifier, Self Certifying Identifier, SCID]]

- Spec = toip1 (defined in specs.json)
- Key = <lowercase and in between>
- Optional: Alias 1 = how the term will be presented. Alias 2..n = how you can reference the term transclusion

(authenticity), content protection (confidentiality), and may support privacy via uncorrelatable or pseudonymous metadata.

⇒ First-seen (First seen, first-seen)

an entity or component that keeps a copy of a kerl for an identifier but that is not designated by the controller of the identifier as one of its witnesses. See annex watcher.



refers to the first instance of a message received by any witness or watcher. The first-seen event is always seen, and can never be unseen. It forms the basis for duplicity detection in KERI-based systems.







[[xref:]]

(external reference)

- Mnemonic Specification
- Term in Key format
- How do you spell it
- Pop-up definition text

On hover, you READ the POP UP
On click you GO TO either the main link
or a link within the pop-up

Example

[[xref: toip1, self-certifying-identifier, SCID]]

- Spec = toip1 (defined in specs.json)
- Key = <lowercase and in between>
- Optional: Alias 1 = how the term will be presented

Supporting definitions:

General IT: identifier □,







[[ref:]]

Example

[[ref: SCID]]

- Term or alias
- Pop-up definition text

- Payload = key or alias
- Will match a def or tref!!

On hover, you READ the POP UP
On click you GO TO either the main link or a popped-up link







[[def:]]



[[tref:]]



[[ref:]]



[[xref:]]





s identifier 🔊 🔾







A single attribute—typically a character string—that uniquely identifies an entity within a specific context (which may be a global context). Examples include the name of a party, the URL of an organization, or a serial number for a man-made thing.

Supporting definitions:

- General IT: identifier □,
- Trust-over-IP: identifier ☑.

§ inception event (inception events, inception-event)







A key event that provides the incepting information needed to derive an AID and establish its initial key state, as defined by the KERI specification.







[[iref:]]

- Example
- [[iref: pre-rotation]]

- Term or alias
- Inline inclusion of definition text

You READ the definition from the glossary again No anchor On click, you GO TO the provided links, also in the pop-up text

- Payload = key or alias
- Will match a def or tref!!

JSON Serialization (rfc7515, JSON-serialization)

GLOSSARY



See https://datatracker.ietf.org/doc/html/rfc7515#section-3.2 Linearing-10.

JSON Serialization (rfc7515, JSON-serialization)













[link](URL) [link](#anchor)

- Markdown and Html
- No Pop-up
- No versioning
- Yes, broken link checking

On click you GO TO links

Examples

Source [wikipedia](https://en.wikipedia.org/wiki/Autonomic_computing)

[RFC2119](#RFC2119)

[Seals](./tools/#deep-dive-into-seals)

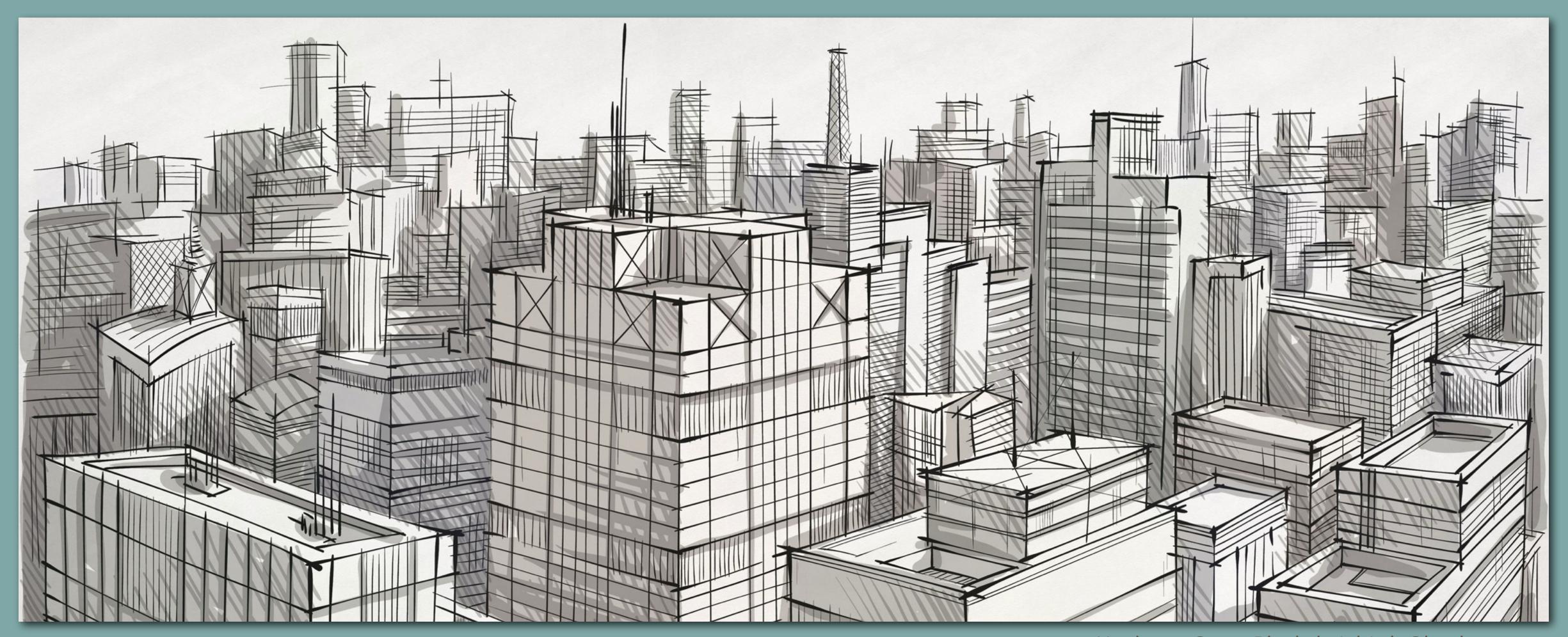
- Payload = a link
- As is; so outdated at first use







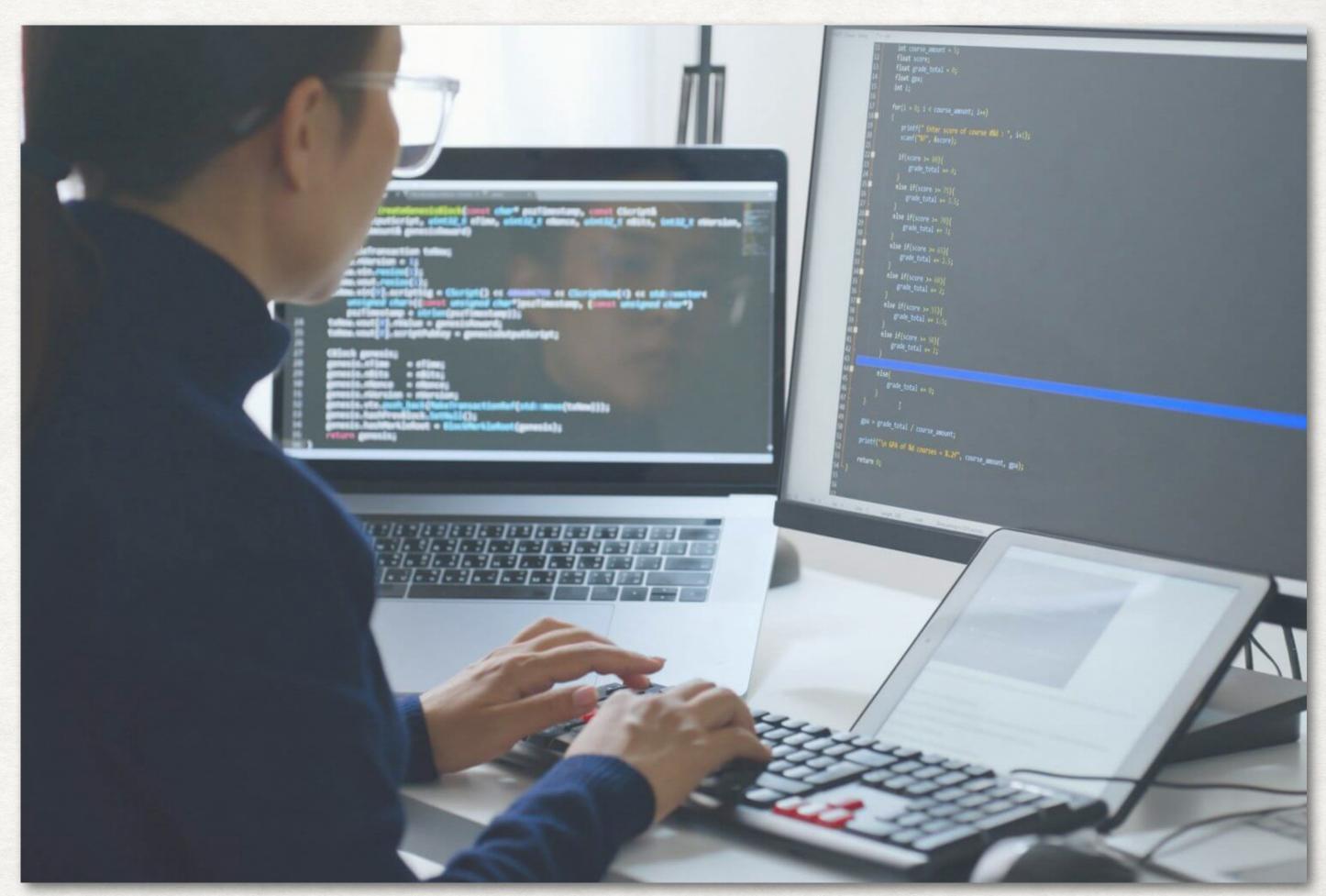
SPEC-UP-T ECOSYSTEMS HOW CONSENSUS AND FREEDOM WORK TOGETHER



SERVICE

SPEC-UP-T SPECIFICATION INTEGRATED WITH GLOSSARIES

- Project install & configuration
- Data intake and processing
- Education (3 online workshops)
- Custom development (optional)











WHAT IS A TECHNICAL SPECIFICATION?

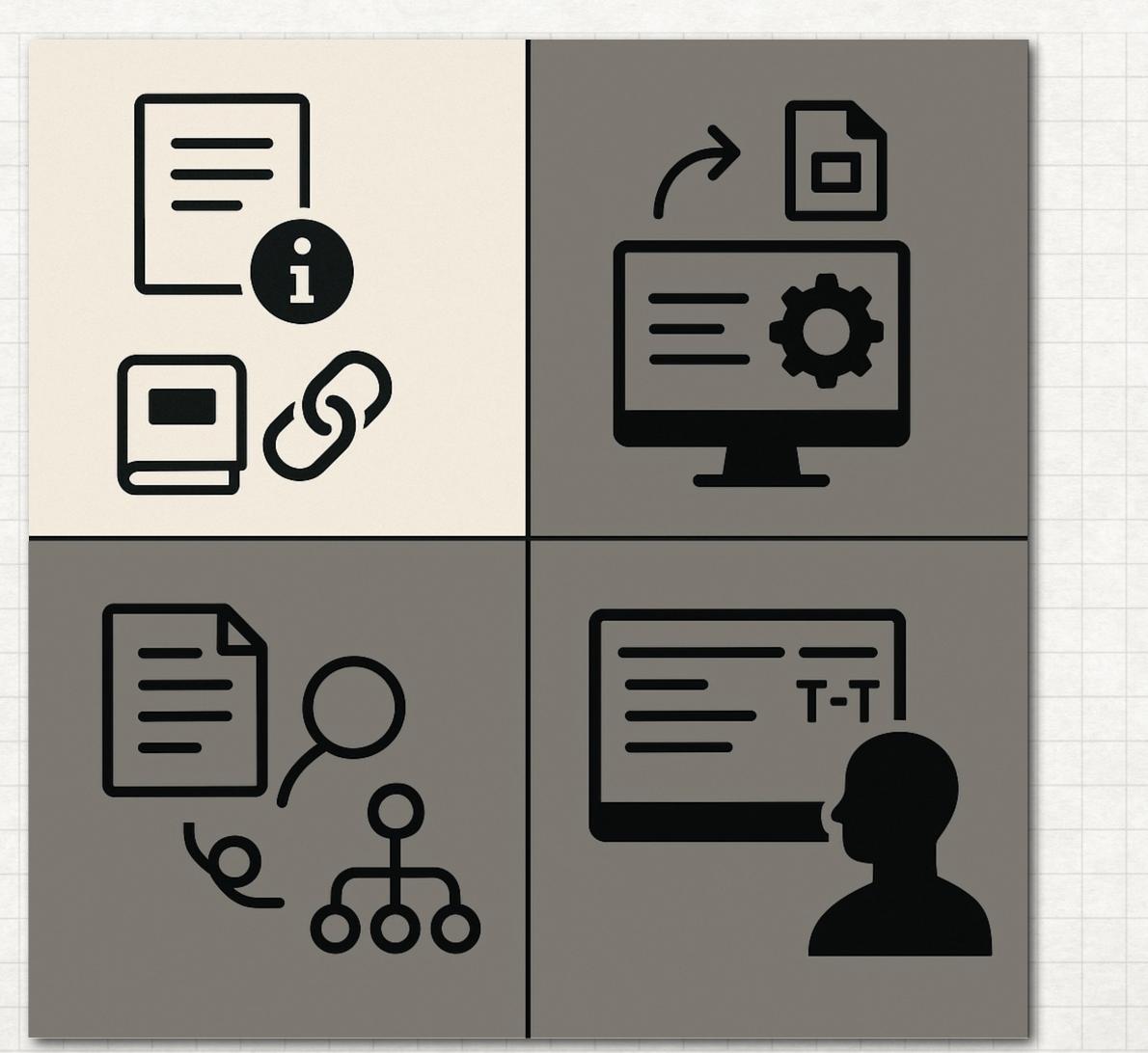
TEXT, GLOSSARY, INLINE REFERENCES AND BIBLIOGRAPHY

- Text in markdown
- Images in markdown
- Extension in markdown (example mermaid)
- Specific tags in Spec-Up-T
- A glossary section
- External glossaries declared in specs.json
- Terms & definitions directory
- A GitHub repo
- Git commits locally or remotely









WHAT IS A WEB-BASED SINGLE-PAGE? STATIC PAGE GENERATION WITH GITHUB ACTIONS AND PAGES

- Spec-up-T is built in Node.JS and NPM
- All changes are versioned using git
- All external references are backed up with local fallbacks
- Broken link analysis pre- and post-generation
- Healthcheck of the spec in its ecosystem
- A command-line menu to edit and test: generates a local index.html file.
- GitHub Actions to generate the Pages site remotely
- The single source of truth is the production version of any spec or glossary based on Spec-Up-T









WHAT IS HARVESTING AND LINKING?

REUSE DEFINTIONS THAT FIT IN CONTEXT AND LINK TO NORMATIVE AND INFORMATIVE SOURCES

- Spec-up-T [[tref]] and [[xref]]
- Spec-up-T [[spec]] (trust involved)
- Markdown
- Html
- Broken links report during generation
- Broken links report in production





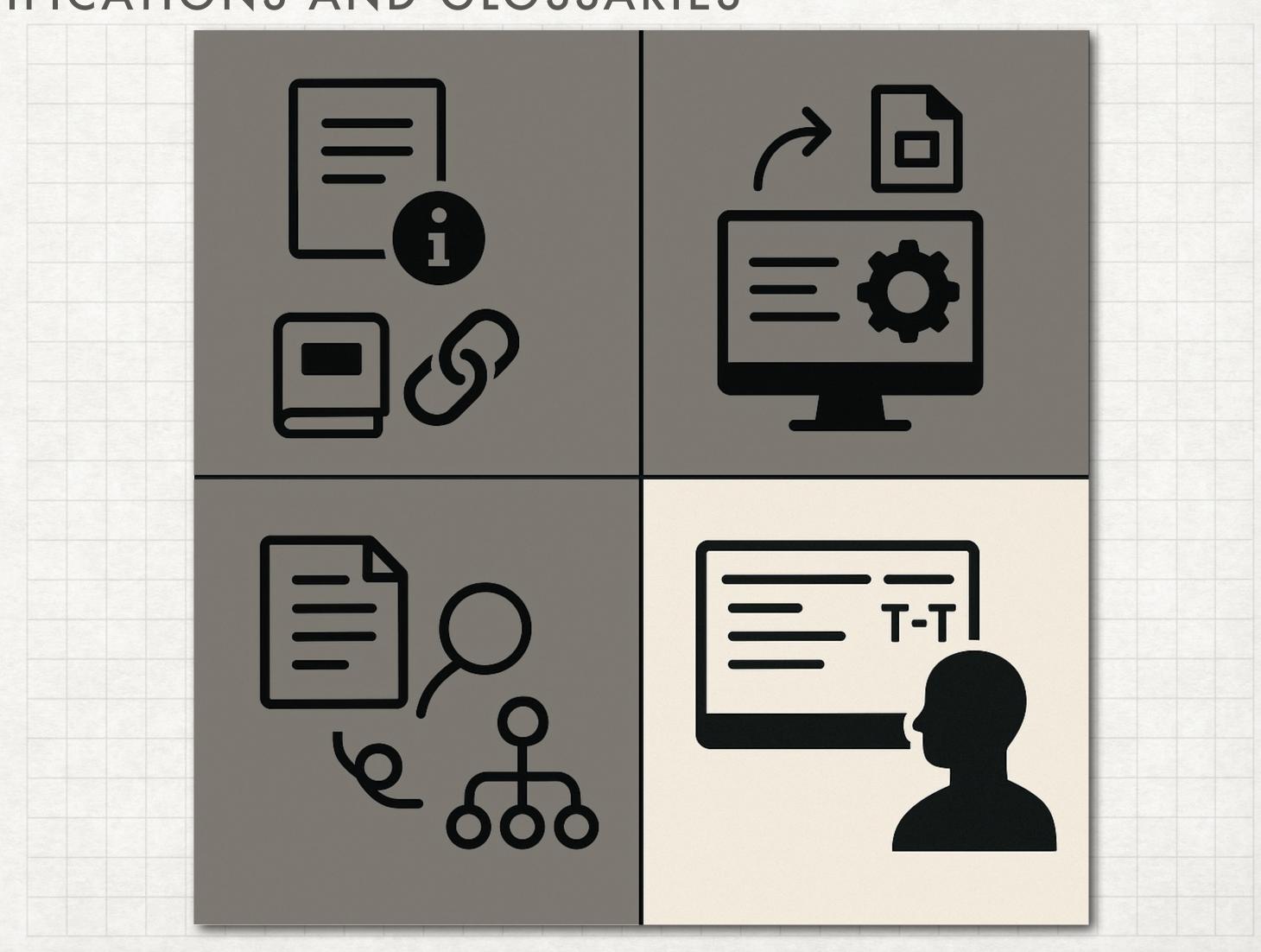




WHAT IS COMMAND-LINE AND WEB-BASED?

ANYONE WITH A GITHUB ACCOUNT SHOULD BE ABLE TO MANAGE SPEC-UP-T-BASED SPECIFICATIONS AND GLOSSARIES

- · Command-line is an option
- Web-based is GitHub-based
- User rights determine workflow
- Teamwork: Git workflow and governance rules on top
- Healthchecks: consistency











WE'VE MANAGED TERMINOLOGY HELL ON THE INTERNET.

— Henk van Cann

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