GUIDANCE

TCG Markdown User's Guide

Version 0.7.5 January 23, 2024

 ${\bf Contact:\ admin@trustedcomputinggroup.org}$

TCG Draft

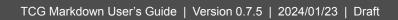
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CHANGE HISTORY

Revision	Date	Description	
0.1/1	2023/12/17	Initial draft	



DOCUMENT STYLE

Key Words

The key words "MUST," "MUST NOT," "REQUIRED," "SHALL," "SHALL NOT," "SHOULD," "SHOULD NOT," "RECOMMENDED," "MAY," and "OPTIONAL" in this document's normative statements are to be interpreted as described in RFC 2119: Key words for use in RFCs to Indicate Requirement Levels.

Statement Type

Please note an important distinction between different sections of text throughout this document. There are two distinctive kinds of text: *informative comments* and *normative statements*. Because most of the text in this specification will be of the kind *normative statements*, the authors have informally defined it as the default and, as such, have specifically called out text of the kind *informative comment*. They have done this by flagging the beginning and end of each informative comment and highlighting its text in gray. This means that unless text is specifically marked as of the kind *informative comment*, it can be considered a *normative statement*.

EXAMPLE:

Start of informative comment

This is the first paragraph of 1–n paragraphs containing text of the kind informative comment ...

This is the second paragraph of text of the kind informative comment ...

This is the nth paragraph of text of the kind informative comment ...

To understand the TCG specification, the user must read the specification. (This use of MUST does not require any action).

End of informative comment

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1 Scope and Purpose

The purpose of this guide is to demonstrate the usage of Markdown-plus-GitHub document-authorship flows for TCG workgroup usage.

This document contains a boilerplate section at the front called Document Style. This section is typically included in TCG Specifications and isn't as relevant for Guidance and Reference documents. It's included here, mainly to demonstrate the usage of Markdown for specifications.

2 Getting Started

2.1 Creating a Repository

You can create a repository from scratch, or you can use the template repository to get started a little more quickly. There's a little green "Use this template" button in the top right (see Figure 1).

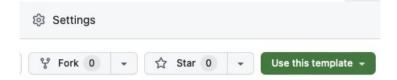


Figure 1: The "Use this template" button

2.2 GitHub Actions

Even if you used the template repository, please double-check this. As the tools are being actively developed, there is probably a newer version of the tools available for you!

.github/workflows/main.yml might look a bit like this:

```
# Render the spec to PDF on pull requests, and check in the rendered PDF on commits
# to main.
name: Render
on:
  push:
    branches:
      - main
  pull_request:
  workflow dispatch:
iobs:
  render:
    runs-on: ubuntu-latest
    # This Docker container contains all the Pandoc dependencies for rendering TCG
    # Markdown docs.
    container:
      # IMPORTANT: Check https://github.com/TrustedComputingGroup/pandoc/releases
      # for the latest!
      image: ghcr.io/trustedcomputinggroup/pandoc:0.6.2
    name: Render PDF
    steps:
      - name: Checkout
        uses: actions/checkout@v3
      - name: Render
        # This GitHub action provides an easy way to use the Docker container above
        # with your document.
        # IMPORTANT: Check https://github.com/TrustedComputingGroup/markdown/releases
        # for the latest!
        uses: trustedcomputinggroup/markdown@v0.4.0
        with:
          input-md: main.md
          output-pdf: spec.pdf
          output-docx: spec.docx
      - name: Upload samples
        # This GitHub action uploads samples into the "Checks" tab (for pull requests),
        # so that reviewers can easily see how a proposed change will look in the
        # finished spec.
        uses: actions/upload-artifact@master
        with:
          name: preview
          path: |
            spec.pdf
            spec.docx
      - name: Check in latest render
        # This GitHub action automatically renders and checks-in the PDF produced in
        # the above step. This makes it easier for people to grab the latest rendered
        # version of the document.
        uses: stefanzweifel/qit-auto-commit-action@v4
        with:
          commit_message: Generate latest PDF
          file_pattern: spec.pdf
        if: github.event name != 'pull request'
```

2.3 Local Testing

These tools have a number of dependencies on LaTeX and LaTeX plugins. The simplest way to get a consistent build is to use the docker container that gets used for the GitHub actions.

docker_run is provided as a convenience script for Linux systems.

Usage:

```
./docker_run --pdf=output.pdf ./input.md
```

You can specify a particular version of the docker container using the DOCKER_IMAGE environment variable:

```
DOCKER_IMAGE=ghcr.io/trustedcomputinggroup/pandoc:0.6.5 ./docker_run --pdf=output.pdf

→ ./input.md
```

If you're working on a change to these tools, it can be beneficial to build and tag a local version of the container and then run it locally:

```
docker build --tag working .

DOCKER_IMAGE=working:latest ./docker_run --pdf=output.pdf ./input.md
```

2.4 TCG Document Boilerplate

There are several sections that are recommended for use in every TCG Markdown document.

The trickiest section is the YAML front matter at the very top of the Markdown file. It looks like this:

```
title: "TCG Markdown User's Guide"

version: 0.1

revision: 1

date: 12/17/2023

type: GUIDANCE

status: Draft
...
```

This section provides metadata to the tools.

2.4.1 Front Matter Variables

2.4.1.1 title

REQUIRED.

title is the title of the document.

2.4.1.2 version

REQUIRED unless you're using --gitversion

version is the version of the document.

2.4.1.3 revision

OPTIONAL.

revision is the revision of the document. If not provided, the revision is not printed.

2.4.1.4 date

REQUIRED unless you're using --gitversion.

date is the full date of the document, in YYYY/MM/DD form.

2.4.1.5 type

REQUIRED.

type should be one of: "SPECIFICATION", "GUIDANCE", or "REFERENCE". It appears on the title page on the left-hand side.

2.4.1.6 status

REQUIRED unless you're using --gitstatus.

status should be one of: "Draft", "Review", or "Published".

If it is not "Published", then a gray watermark "DRAFT" will appear on all pages after the title page.

2.4.1.7 template

OPTIONAL.

template should be one of: greentop, bluetop. It customizes the title page style. If not provided, greentop is the current default.

Typically, specifications use the greentop template, and guidance or reference documents use the bluetop template.

2.4.2 Backslash Macros

Understanding of LaTeX is not required in order to use TCG Markdown tools. However, a few special macros can be used from Markdown to fully specify a TCG document.

2.4.2.1 Table of Contents

After the boilerplate sections, most TCG documents should set up the tables of contents, and lists of tables and figures.

\tableofcontents

\listoftables

\listoffigures

Almost every document should have a table of contents. Some documents may not need lists of tables or figures.

2.4.2.2 Appendices

At the end of the last "regular" section of the document, use

\beginappendices

to mark the transition to the "Appendix" portion of the document. Only documents that have appendices are expected to use this macro.

3 Collaboration Model

Users familiar with Git and who prefer to use their own tools may choose to skip this section.

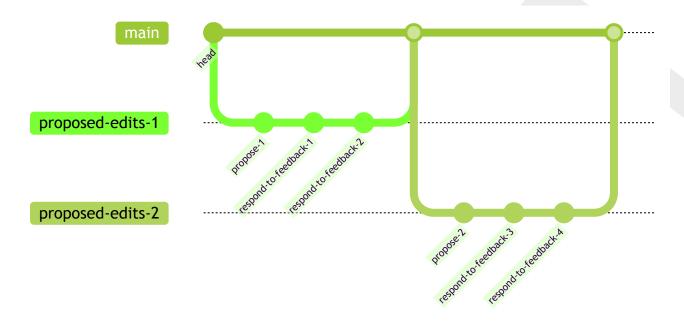


Figure 2: GitHub Collaboration Workflow

As visualized in Figure 2, proposed changes to a GitHub Markdown repository take the form of "Pull Requests" (PRs). A *proposer* of a change proposes a PR that changes some files in the repository. This PR contains an initial *commit*, which is a unit of change to files. *Reviewers* can provide comments and suggestions on the proposed edits. The *proposer* can respond to the feedback by adding additional *commits* into their PR. When all parties are satisfied, the PR is *approved* and *merged* into the main repository.

3.1 Sending a Pull Request

When you navigate to a GitHub repository containing Markdown, you can view the Markdown files by clicking on them.

From this view, there is an "Edit" (pencil) button in the upper right-hand corner, pictured in Figure 3:

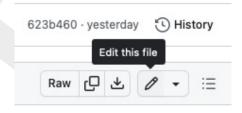


Figure 3: GitHub Edit Button

This will take you to a view where you can edit the file. There is a "Preview" button that you can use to see roughly how the changes will look when viewed from GitHub. Most everyday changes to TCG docs can be previewed in high enough fidelity with this tool.

When you're satisfied with your changes, use the green "Commit changes..." button. This will bring up the dialog box pictured in Figure 4:

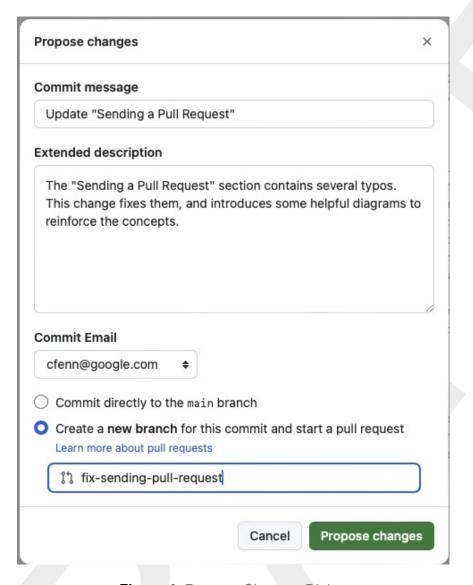


Figure 4: Propose Changes Dialog

Include a descriptive commit message, extended description, and new branch name for your change, then click the green "Propose changes" button.

You're almost done! This will take you to a page called "Open a pull request". You can provide some additional context to reviewers about why you want to make this change. When you're satisfied, click "Create pull request."

3.2 Reviewing a Pull Request

After a PR has been sent by someone else, you can review the changes with the "Add your review" button in the upper right-hand corner of the change description page.

This button takes you to a review flow, where you can provide comments on individual lines of the changes. You can leave a comment on an individual line by mousing over the line and clicking the blue "+" button, which looks like Figure 5:

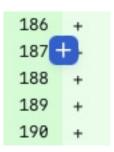


Figure 5: Plus Button

After you've gone through all the changed files and provided your comments, you can click "Review changes" to finish the review. This dialog looks like Figure 6:

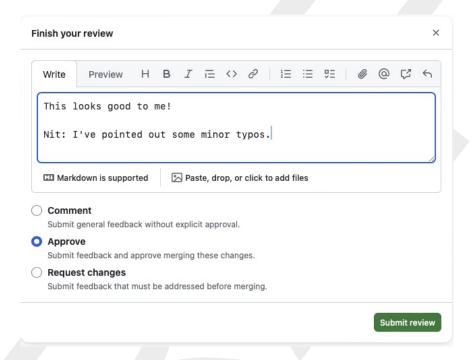


Figure 6: Finish Review

Here, you can provide summary comments and mark your review as one of:

- Comment (Just providing feedback)
- Approve (Approving the changes)
- Request changes (Explicitly not approving the changes, with specific actionable feedback)

4 Using Markdown

Markdown is intended to be a lightweight language for authoring documents. Most of the time, it looks exactly the same as plain text.

4.1 Basic Formatting

The structure of the document is guided by lines that begin with #:

```
# Section Titles
## Subsection Titles
### Sub-subsection Titles
```

and so on.

When you put *asterisks* around a word, it renders as italics.

When you put **double asterisks** around a word, it renders as **boldface**.

When you put `backticks` around a word, it renders as monospace.

To force a new page, use ---. This will appear as a horizontal line in GitHub and a page break in the PDF.

When you need to write math, use \$ dollar signs \$ for inline math notation, or \$\$ double dollar signs \$\$ for equations. This is explained in more detail in Clause 7.

Numbered and bulleted lists begin with numbers and asterisks:

```
* Something
* Something else

1. First thing
2. Second thing
```

Becomes:

- Something
- · Something else
- 1. First thing
- 2. Second thing

Hyperlink syntax for the TCG Website looks like: [TCG Website] (https://trustedcomputinggroup.org).

Hyperlink syntax for the Using Markdown section looks like: [Using Markdown] (#using-markdown). If you provided a stable cross-referencing link like this document for Cross-References, you can use it like: [Cross-References] (#sec:cross-references).

You can use triple backticks like so to create blocks of code:

```
int i = 42;
```

The result looks like this:

```
int i = 42;
```

You can tell Markdown what language the code is in, to get syntax highlighting:

```
c
// Awesome!
int i = 42;
```

The result looks like this:

```
// Awesome!
int i = 42;
```

4.2 Cross-References

In general, sections, tables, figures, and equations can be referenced using the @ symbol. These cross-references to not show up in the GitHub markdown, but will appear in the final document.

4.2.1 Sections

When you add {#sec:section-reference} at the end of a section title, as in:

```
## Cross-References {#sec:cross-references}
```

it creates a cross-reference that you can use with @sec:section-reference. For example, @sec:cross-references Clause 4.2.

4.2.2 Tables

See Clause 6 for more information about cross-references to tables.

4.2.3 Figures

See Clause 5 for more information about cross-references to figures.

4.2.4 Equations

See Clause 7 for more information about cross-references to equations.

4.3 Informative Blocks

TCG uses a special visual style to demarcate informative non-binding remarks within specifications.

We use the Markdown "quote block" for this purpose. A quote looks like this:

The above Markdown code becomes:

Start of informative comment

This is the only informative text block in this document.

These blocks can contain multiple paragraphs, tied together by lines containing just ">".

These blocks can even contain tables! However, be wary of providing tables that are too large in an Informative Text block.

Document Type	Informative Blocks
SPECIFICATION	Usually
GUIDANCE	Rarely
REFERENCE	Rarely

End of informative comment

5 Figures

There are two ways to include a figure in a document: as an image file checked into the repository, and as a Mermaid diagram.

5.1 Images

Upload plain image files into the repository with the "Add file" button.

For compatibility reasons, all image files should be in the root of the repository (main directory). In the future, better support for organizing figures may be added to these tools.

See Clause 3.1 for the flow that needs to be followed for getting your image uploads reviewed. You can add more changes to the branch for the PR that reference the image, or you can do it in a subsequent PR.

Markdown syntax for including an image looks like ! [Figure Title] (filename). For example:

![Adding an Image](add_plus_button.jpg) {#fig:add-plus-button width=60%}

becomes:

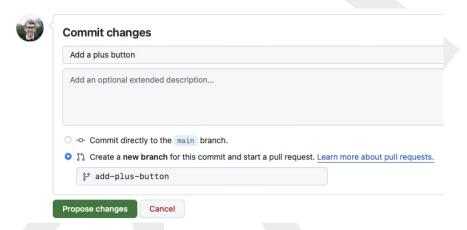


Figure 7: Adding an Image

The {#fig:add-plus-button} attribute (note there are no spaces between the) and the {!) does two things:

- 1. Includes the figure in the List of Figures (if you used \listoffigures as described in Clause 2.4.2.1).
- 2. Numbers the figure so you can reference it as Figure 7 by just typing @fig:add-plus-button.

Including width=60% here specifies that the image should take up 60% of the page's width.

5.2 Mermaid Charts

Mermaid is a language for text-based diagrams for inclusion in Markdown documents. See the Mermaid website for a more exhaustive list of types of diagrams.

5.2.1 Sequence Diagrams

Mermaid supports swim-lane digrams like Figure 8 with the following notation:

```
```mermaid {caption="Startup Sequence" #fig:startup}
sequenceDiagram
Host->>TPM: TPM2_Startup
loop Measurements
 Host->>TPM: TPM2_PCR_Extend
end
Host->>TPM: TPM2_Quote
TPM->>Host: <quoted PCRs>
```

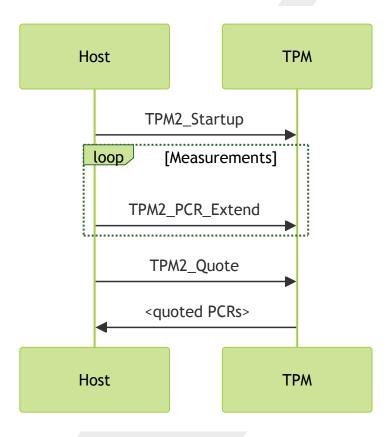


Figure 8: Startup Sequence

Crossreferences to Mermaid diagrams are supported by providing both caption and #fig:xxxxx classes in curly braces.

#### 5.2.2 Flow Charts

Mermaid supports flow-charts like Figure 9 with the following notation:

```
``mermaid {caption="Flowchart" #fig:flowchart}
graph TD;
 A-->B;
 A-->C;
 B-->D;
 C-->D;
```
```

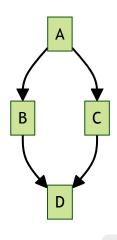


Figure 9: Flowchart

6 Tables

We support several notation styles for tables.

6.1 Markdown Tables

There are several ways to write a table in Markdown.

6.1.1 Simple Markdown Tables

Small, simple tables like Table 3 are easier to read in raw Markdown form in the following style:

Table 3: Shapes

| Shape | Number of sides |
|--------------|-----------------|
| Square | 4 |
| Triangle | 3 |
| Möbius strip | 1 |

Note the table caption and cross-reference in curly braces above the table.

6.1.2 Multiline Markdown Tables

Sometimes, you may need to write a lot of Markdown content in the cell of a table, and this content may need multiple lines in your editor.

| <pre>Table: Table Types {#tbl:table-types}</pre> | | | | |
|--|--|---|--|--|
| **Easy?** | **Recommended?** | **References** | | |
| Yes | When each cell
is about one
word or so. | <pre>@sec:simple-markdown-tables, @tbl:shapes</pre> | | |
| Yes | When you have content that's more than a few words. | <pre>@sec:multiline-markdown-tables, @tbl:table-types</pre> | | |
| No | When you have
row or column
spans and need
full Markdown
support (e.g.,
crossrefs or
equations). | <pre>@sec:grid-tables, @tbl:fruits-grid</pre> | | |
| Yes | When you have row or column spans, and don't need full Markdown or don't mind doing all the styling in HTML. | <pre>@sec:html-tables, @tbl:fruits-html</pre> | | |
| | **Easy?** Yes Yes | **Easy?** **Recommended?** Yes When each cell is about one word or so. Yes When you have content that's more than a few words. No When you have row or column spans and need full Markdown support (e.g., crossrefs or equations). Yes When you have row or column spans, and don't need full Markdown or don't mind doing all the styling in | | |

Table 4: Table Types

| Table Kind | Easy? | Recommended? | References |
|------------------------------|-------|--|-----------------------|
| Simple Markdown
Tables | Yes | When each cell is about one word or so. | Clause 6.1.1, Table 3 |
| Multiline Markdown
Tables | Yes | When you have content that's more than a few words. | Clause 6.1.2, Table 4 |
| Grid Markdown
Tables | No | When you have row or column spans and need full Markdown support (e.g., crossrefs or equations). | Clause 6.1.3, Table 5 |
| HTML Tables | Yes | When you have row or column spans, and don't need full Markdown or don't mind doing all the styling in HTML. | Clause 6.2, Table 6 |

6.1.3 Grid Tables

You may have some data that needs to be presented in a table that allows you to make cells span rows or columns. Grid tables like Table 5 can be used for this. Note that editing these tables requires a bit more typing. It's recommended to use these only when you need row and column spanning.

Some tools provide assistance for generating tables of this type. If you find a tool that is handy for editing Markdown grid-style tables, please send a PR to github.com/trustedcomputinggroup/pandoc!



Table 5: Fruits (Pipe)

| Color and Fruit | | Mistaken for Vegetable |
|-----------------|--------|------------------------|
| Apple | Red | No |
| | Green | No |
| Tomato | Red | Yes |
| Banana | Yellow | No |

6.2 HTML Tables

A rowspan/colspan table like Table ?? can be implemented in HTML like the below. Note that this is a little easier to type, and a little harder to read in plain-text form. We recommend preferring grid tables to HTML tables, but HTML tables can be fine in certain situations (for example, a gradual migration away from a Word document using Pandoc, which typically converts Word tables into HTML).

```
<caption>Fruits (HTML)</caption>
 <strong>Color and Fruit</strong>
   <strong>Mistaken for Vegetable</strong>
 Apple
   Red
   No
 Green
   No
 Tomato
   Red
   Yes
 Banana
   Yellow
   No
```

The above HTML table becomes the below:

Table 6: Fruits (HTML)

Color and Fruit		Mistaken for Vegetable
Apple	Red	No
	Green	No
Tomato	Red	Yes
Banana	Yellow	No

Note the table caption in the <caption> element, and the table cross-reference in the id attribute of the element.

To get an HTML table to word-wrap its contents, use <colgroup> to style the width of the columns.

```
<colgroup>
<col style="width: 25%" />
<col style="width: 75%" />
</colgroup>
```

7 Math

7.1 Equations

Markdown supports inline math notation. For example, Equation 1 can be typeset as:

```
n \ge 3; a, b, c \in \mathbb{Z}} \mid a^n + b^n = c^n $$ {#eq:fermat}
```

Note the {#eq:fermat} at the end of the equation. This allows referencing Equation 1 with @eq:fermat.

$$\nexists n \geq 3; a, b, c \in \mathbb{Z} \mid a^n + b^n = c^n \tag{1}$$

7.2 Inline math

Sometimes, you just need a little inline math in the middle of a sentence, like with $a^2 + b^2 = c^2$ to get $a^2 + b^2 = c^2$.

7.3 Words in equations

To typeset complex equations with multi-character identifiers (such as the function "HMAC" or the word "OPAD") in Equation 2, we recommend using the functions \mathbf (for functions) and \mathit (for identifiers). This avoids strange kerning issues where a string is treated as a product of single-character symbols, like in Equation 3:

 $$$ \mathbf{K} \rightarrow H((\bar{K} \rightarrow H(\bar{K} \rightarrow H((\bar{K} \rightarrow H(\bar{K} \rightarrow H(\bar{K} \rightarrow H((\bar{K} \rightarrow H(\bar{K} \rightarrow H(\bar{K$

$$\mathbf{HMAC}(K, someTEXT) := H((\bar{K} \oplus \mathit{OPAD}) \| H((\bar{K} \oplus \mathit{IPAD}) \| someTEXT)) \tag{2}$$

$$HMAC(K, someTEXT) := H((\bar{K} \oplus OPAD) || H((\bar{K} \oplus IPAD) || someTEXT))$$
 (3)

8 Advanced Features

In the GitHub action YAML, you can enable some advanced features.

8.1 Git Version Parsing

Use extra-build-options: "--gitversion" to let Git number the document for you.

```
- name: Run the action
  uses: trustedcomputinggroup/markdown@latest
  with:
     extra-build-options: "--gitversion"
```

When you do this, the tool will check for a recent release in the repository. It will use the major.minor version number from the tag as the document version, and the number of commits since that tag as the revision. This way, you don't have to manually update the version or revision numbers in your document!

8.1.1 Conventions for Release Naming

The tooling expects the following conventions for tagging your releases:

- vX.Y indicates a regular draft of version X.Y.
- rX.Y indicates a review draft of version X.Y.
- pX.Y indicates a published version.

8.2 Git Status Parsing

Use extra-build-options: "--gitstatus" to let Git number AND set the status of the document for you.

```
- name: Run the action
  uses: trustedcomputinggroup/markdown@latest
  with:
     extra-build-options: "--gitstatus"
```

See Conventions. When --gitstatus is enabled, the leading character (which is expected to be one of: v, r, or p) is used to determine the document's status at revision 0. Commits on top of any type of version are always considered to be drafts.

8.3 Running Pandoc with Releases

Clause 2.2 shows an example of a GitHub action that automatically runs Pandoc on every pull request and push to the repository.

You may wish to run the workflow on releases, and attach the results to the release page, for example to have it generate a docx file to send to the Technical Committee for review, or when publishing a final version of a document.

Use the example below as a guide for how you can have Pandoc automatically render the doc (maybe basing its status on the released tag).



```
# Render the spec to PDF and Word on releases.
name: Render (PDF and Word)
on:
  release:
    types: [released]
jobs:
  render-spec-pdf:
    runs-on: ubuntu-latest
    container:
      image: ghcr.io/trustedcomputinggroup/pandoc:0.7.1
    name: Render (pdf)
    steps:
      - name: Checkout
        uses: actions/checkout@v3
      - name: Render
        uses: trustedcomputinggroup/markdown@v0.4.2
          input-md: spec.md
          extra-build-options: "--gitstatus"
          output-pdf: spec.pdf
      - name: Upload to release
        uses: svenstaro/upload-release-action@v2
        with:
          repo_token: ${{ secrets.GITHUB_TOKEN }}
          file: spec.pdf
          tag: ${{ github.ref }}
          overwrite: true
          body: "Part 1 (PDF)"
  render-spec-docx:
    runs-on: ubuntu-latest
    container:
      image: ghcr.io/trustedcomputinggroup/pandoc:0.6.8
    name: Render Part 1 (docx)
    steps:
      - name: Checkout
        uses: actions/checkout@v3
      - name: Render
        uses: trustedcomputinggroup/markdown@v0.4.2
        with:
          input-md: spec.md
          extra-build-options: "--gitstatus"
          output-docx: spec.docx
      - name: Upload to release
        uses: svenstaro/upload-release-action@v2
          repo_token: ${{ secrets.GITHUB_TOKEN }}
          file: spec.docx
          tag: ${{ github.ref }}
          overwrite: true
          body: "Part 1 (Word)"
```



A Reporting Issues with the Tools

Please report issues with the tooling at https://github.com/TrustedComputingGroup/pandoc/issues.