HM Template

Advanced Typst Styling

Peter Lustig and Max Mustermann

27. November 2025

Contents

Glossary

***API* – Application Programming Interface**

***HTTP* – Hypertext Transfer Protocol**

1. Template Usage

Small guide on the usage of the template and provided items.

1.1. How to use the Glossarium

Use the `#gls(accronym)` function or `@acronym` to insert acronyms, which looks like this Hypertext Transfer Protocol (HTTP).

Application Programming Interfaces (APIs) are used to define the interaction between different software systems [1].

Only the first occurrence of an acronym will be expanded, like this HTTP.

1.2. Displaying Raw Text and Sourcecode

In the following example, we display python code with syntax highlighting. For this, the `code` function is used. The `code` function is a wrapper for the `sourcecode` function from the `@preview/codelst` package, with some defaults applied.

```
def exmple_function(int a, int b) -> int:
    print("Hello, World!")
    yield a + b
```

Listing 1: Example code.

For inline colored code, the ```py CODE ``` syntax is used like `function(int a) -> int`.

1.2.1. Displaying Inline Colored Monospace text

If you want to display monospaced colored text, the `rgb-raw` function can be used. The following text is created with `#rgb-raw("MACHINE_ADAPTER", rgb("#13A256"))` and looks like `MACHINE_ADAPTER`.

1.3. Notes

The family of note functions can be used to display note boxed: `note`, `color_note`, `warning-note`, and `good-note`.

Note

Color note

Warning note

Good note

1.4. Tables

For tables, a prestyled wrapper function is available, the `styledtable` function, taking a `table` function as an argument. The `stroke`, `background_odd`, and `background_even` parameters can be set to change the table's color appearance.

Platform	Adapters	Data
Drone	• wifi • lte	• Mission Data • Camera feed • Flight information
Car	• LTE	• Route information • Maintenance Data
Truck	• Lorawan • LTE	• Moving & rest times • Loading information • Maintenance Data

Table 1: Example Table

```
#figure(caption: [Example Table])[
#styledtable(
  table(
    columns: (auto, auto, auto),
    table.header([*Platform*], [*Adapters*], [*Data*]),
    table.hline(),
    [Drone],[
      - wifi
      - lte
    ],
    [...]
  ))
]
```

Listing 2: Table code example.

1.5. Requirements

Requirements werden in funktional und nicht funktional gruppiert.

```
#requirements(
  functional_chapter_description: [Functional requirements specify what
functionality or behavior the resulting product under the specified conditions
should have @balzert_lehrbuch_2011.],
  functional: (
    (
      title: [Drone Connectivity],
      description: [The drone shall have connectivity to the server],
      subrequirements: (
        (
          title: [LTE Connectivity],
          description: [Connectivity to the server shall be achieved via LTE]
        ),
      ),
    ),
  ),
  non_functional_chapter_description: [Nonfunctional or technical requirements
describe aspects regarding one or more functional requirements. In short, they
specify how the product should work @balzert_lehrbuch_2011.],
  nonfunctional: (
    (
      title: [Server Placement],
      description: [The drone server shall be placed in a remote server center.]
    ),
  ),
)
```

Listing 3: Requirements function usage example

Below, the rendering of the above shown example is visible.

1.6. Functional Requirements

Functional requirements specify what functionality or behavior the resulting product under the specified conditions should have [2].

[R1] Drone Connectivity

The drone shall have connectivity to the server

[R1.1] LTE Connectivity

Connectivity to the server shall be achieved via LTE

1.7. Nonfunctional Requirements

Nonfunctional or technical requirements describe aspects regarding one or more functional requirements. In short, they specify how the product should work [2].

[R2] Server Placement

The drone server shall be placed in a remote server center.

Each requirement can be referred to by its requirement id like `@req_Drone_Connectivity`, 1.6.0.1. Additional labels exist for `@req_functional` and `@req_nonfunctional`.

2. Introduction

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere,' inquam, 'Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albucius, hinc inimicus. Sed iure Mucius. Ego autem mirari satis non queo unde hoc sit tam insolens domesticarum rerum fastidium. Non est omnino hic docendi locus.

References

[1] International Organization for Standardization, “ISO/IEC 18004: Information technology – Automatic identification and data capture techniques – QR code bar code symbology specification,” in *ISO/IEC 18004:2000*, 2000.

[2] H. Balzert, *Lehrbuch der Softwaretechnik: Entwurf, Implementierung, Installation und Betrieb*, 3rd ed. in SpringerLink Bücher. Heidelberg: Spektrum Akademischer Verlag, 2011.

Appendix

Important Technical Details

Some important technical details

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et.