Question Frame Manual

Fr4nk1in

1. The `question` function

```
let question(
  heading-counter: false,
  number: auto,
  display-number: none,
  display-desc: none,
  display-frame: none,
  desc,
) = content
```

- `heading-counter: boolean`
  Whether to show heading counter or not.
- `number: auto | int | str | content`
  Question number, defaults to `auto`.
  - If `auto`, it would be the number of the questions (whose `number` are `auto`) up to this point.
  - Both `auto` and `int` works with `heading-counter`, while `str` and `content` do not and fail the compilation.
  - Both `auto` and `int` are treated as the `..numbers` in the `display-number` function. `str` and `content` are treated as the `override`.
- `display-number:(override: str | content, ..numbers: int) => content`
  How to display the question number.
- `display-desc: (content) => content`
  How to display the question description
- `display-frame: (content) => content`
  How to display the question frame

To enable the heading counter argument `heading-counter`, you need to set the heading numbering rule first. For example:

```
#set heading(numbering: "1.")
```

2. Presets and Examples

We also provide two presets for the `question` function: `simple-question` and `complex-question`.

2.1. The `simple-question` preset

```
simple-question[Default Configuration]
```

1. Default Configuration

```
simple-question(
  number: 1024,
)[Custom Numbering]
```

1024. Custom Integer Numbering

```
simple-question(
  number: "Number."
)[Custom Numbering]
```

Number. Custom Numbering

```
simple-question(
  number: $gamma$
)[Custom Numbering]
```

γ   Custom Numbering

```
simple-question[
  Second Default Configuration
]
```

2.   Second Default Configuration

```
simple-question(
  heading-counter: true
)[With Heading Counter]
```

2.1.3.   With Heading Counter

```
simple-question(
  heading-counter: true,
  number: 1024,
)[Custom Numbering]
```

2.1.1024.   Custom Integer Numbering

Works with `heading-counter`

```
simple-question(
  display-number: (
    override: none,
    ..numbers,
  ) => {
    strong(numbering("I.", ..numbers))
  },
)[Custom Numbering Rule],
```

IV.   Custom Numbering Rule

```
simple-question(
  heading-counter: true,
  display-number: (
    override: none,
    ..numbers,
  ) => {
    strong(numbering("I.", ..numbers))
  },
)[Custom Numbering Rule],
```

II.I.V.   Custom Numbering Rule

```
simple-question(
  heading-counter: true,
  number: 1024,
  display-number: (
    override: none,
    ..numbers,
  ) => {
    strong(numbering("I.", ..numbers))
  },
)[Custom Integer Numbering]
```

II.I.MXXIV.   Custom Integer Numbering

Works with `display-number`

```
simple-question(
  display-desc: it => strong(emph(it))
)[Custom Description Style],
```

6. *Custom Description Style*

```
simple-question(
  display-frame: it => {
    it
    v(-0.9em)
    line(length: 100%, stroke: red)
    v(-0.6em)
  },
)[Custom Frame Style],
```

7. Custom Frame Style

2.2. The `complex-question` preset

8. Default Configuration

```
complex-question[Default Configuration]
```

1024. Custom Integer Numbering

```
complex-question(number: 1024)[Custom Integer Numbering]
```

Number. Custom Numbering

```
complex-question(number: "Number.")[Custom Numbering]
```

γ Custom Numbering

```
complex-question(number: $gamma$)[Custom Numbering]
```

9. Second Default Configuration

```
complex-question[Second Default Configuration]
```

2.2.10. With Heading Counter

```
complex-question(heading-counter: true)[With Heading Counter]
```

2.2.1024. Custom Integer Numbering with Heading

```
complex-question(heading-counter: true, number: 1024)[Custom Integer Numbering]
```

XI. Custom Numbering Rule

```
complex-question(
  display-number: (override: none, ..numbers) => {
    strong(numbering("I.", ..numbers))
  },
)[Custom Numbering Rule]
```

II.II.XII.   Custom Numbering Rule with Heading

```
complex-question(
  heading-counter: true,
  display-number: (override: none, ..numbers) => {
    strong(numbering("I.", ..numbers))
  },
)[Custom Numbering Rule with Heading]
```

II.II.MXXIV.   Custom Integer Numbering with Custom Numbering Rule

```
complex-question(
  heading-counter: true,
  number: 1024,
  display-number: (override: none, ..numbers) => {
    strong(numbering("I.", ..numbers))
  },
)[Custom Integer Numbering with Custom Numbering Rule]
```

13.   *Custom Description Style*

```
complex-question(display-desc: emph)[Custom Description Style]
```

14.   Custom Frame Style

```
complex-question(
  display-frame: rect.with(width: 100%, radius: 5pt, stroke: red),
)[Custom Frame Style]
```