timeliney

v0.0.1 MIT

Create Gantt charts in Typst.

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https://github.com/pta2002/typst-timeliney

Table of contents

```
#timeline(
  ⟨body⟩,
  ⟨spacing⟩: 5pt,
  ⟨show-grid⟩: false,
  ⟨grid-style⟩: (
  stroke: (
    dash: "dashed",
    thickness: 0.5pt,
    paint: luma(66.67%),
  ),
),
  ⟨task-vline⟩: true,
  ⟨line-style⟩: (stroke: 3pt),
  ⟨milestone-overhang⟩: 5pt,
  ⟨milestone-layout⟩: "in-place",
  ⟨box-milestones⟩: true,
  ⟨milestone-line-style⟩: (),
  ⟨offset⟩: 0
)
```

Argument

`⟨spacing⟩: 5pt` `length`

Spacing between lines

Argument

`⟨show-grid⟩: true` `bool`

Show a grid behind the timeline

Argument

```
⟨grid-style⟩: (
  stroke: (
    dash: "dashed",
    thickness: 0.5pt,
    paint: luma(66.67%),
  ),
)
```
`dictionary`

The style to use for the grid (has no effect if `show-grid` is false)

Argument

`⟨task-vline⟩: true` `bool`

Show a vertical line next to the task names

Argument

`⟨line-style⟩: (stroke: 3pt)` `dictionary`

The style to use for the lines in the timelines

Argument

`⟨milestone-overhang⟩: 5pt` `length`

How far the milestone lines should extend past the end of the timeline (only has an effect if `milestone-layout` is `in-place`)

Argument

`⟨milestone-layout⟩: "in-place"` `str`

How to lay out the milestone lines. Can be `in-place` or `aligned`.

`in-place` displays the milestones directly below the timeline, and tries to lay them out as well as possible to avoid colisions.

`aligned` displays the milestones in a separate box, aligned with the task titles.

Argument

`⟨box-milestones⟩: true` `bool`

Whether to draw a box around the milestones (only has an effect if `milestone-layout` is `aligned`)

Argument

`⟨milestone-line-style⟩: ()` `dictionary`

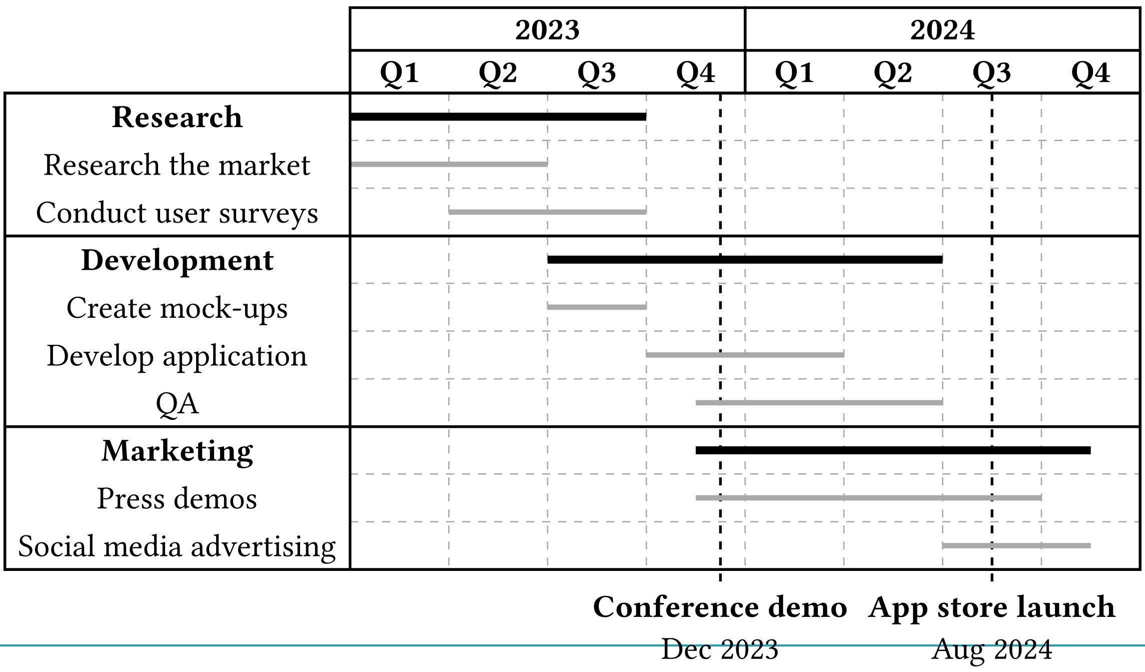
The style to use for the milestone lines

Argument

`⟨offset⟩: 0` `float`

Offset to be automatically added to all the timespans

```
  #timeline(
  show-grid: true,
  {
    headerline(group(([*2023*], 4)), group(([*2024*], 4)))
    headerline(
      group(..range(4).map(n => strong("Q" + str(n + 1)))),
      group(..range(4).map(n => strong("Q" + str(n + 1)))),
    )

    taskgroup(title: [*Research*], {
      task("Research the market", (0, 2), style: (stroke: 2pt + gray))
      task("Conduct user surveys", (1, 3), style: (stroke: 2pt + gray))
    })

    taskgroup(title: [*Development*], {
      task("Create mock-ups", (2, 3), style: (stroke: 2pt + gray))
      task("Develop application", (3, 5), style: (stroke: 2pt + gray))
      task("QA", (3.5, 6), style: (stroke: 2pt + gray))
    })

    taskgroup(title: [*Marketing*], {
      task("Press demos", (3.5, 7), style: (stroke: 2pt + gray))
      task("Social media advertising", (6, 7.5), style: (stroke: 2pt + gray))
    })

    milestone(
      at: 3.75,
      style: (stroke: (dash: "dashed")),
      align(center, [
        *Conference demo*\
        Dec 2023
      ])
    )

    milestone(
      at: 6.5,
      style: (stroke: (dash: "dashed")),
      align(center, [
        *App store launch*\
        Aug 2024
      ])
    )
  }
)
```



#headerline(⟨..titles⟩)

Argument

..⟨titles⟩ `array`

The titles to display in the header line.

Can be specified in several different formats:

```
// One column per title
#headerline("Title 1", "Title 2", "Title 3")
```

```
(
  (
    type: "header",
    headers: (
      (
        titles: (("Title 1", 1), ("Title 2", 1), ("Title 3", 1)),
      ),
    ),
    total: 3,
  ),
)
```

```
// Each title occupies 2 columns
#headerline(("Title 1", 2), ("Title 2", 2))
```

```
(
  (
    type: "header",
    headers: ((titles: (("Title 1", 2), ("Title 2", 2))),),
    total: 4,
  ),
)
```

```
// Two groups of titles
#headerline(
  group("Q1", "Q2", "Q3", "Q4"),
  group("Q1", "Q2", "Q3", "Q4"),
)
```

```
(
  (
    type: "header",
    headers: (
      (
        titles: (("Q1", 1), ("Q2", 1), ("Q3", 1), ("Q4", 1)),
      ),
      (
        titles: (("Q1", 1), ("Q2", 1), ("Q3", 1), ("Q4", 1)),
      ),
    ),
    total: 8,
  ),
)
```

```
// Two lines of headers
#headerline(
  group(("2023", 4), ("2024", 4))
)
#headerline(
  group("Q1", "Q2", "Q3", "Q4"),
  group("Q1", "Q2", "Q3", "Q4"),
)
```

```
(
  (
    type: "header",
    headers: ((titles: (("2023", 4), ("2024", 4))),),
    total: 8,
  ),
) (
  (
    type: "header",
    headers: (
      (
        titles: (("Q1", 1), ("Q2", 1), ("Q3", 1), ("Q4", 1)),
      ),
      (
        titles: (("Q1", 1), ("Q2", 1), ("Q3", 1), ("Q4", 1)),
      ),
    ),
    total: 8,
  ),
)
```

#group(⟨..titles⟩)

Defines a group of titles in a header line.

Takes the same options as `#headerline`.

`#task(⟨name⟩, ⟨style⟩, ⟨..lines⟩)`

Defines a task

Argument

`⟨name⟩` — `content`

The name of the task

Argument

`⟨style⟩: none` — `dictionary`

The style to use for the task line. If not specified, the default style will be used.

Argument

`⟨..lines⟩` — `array`

The lines to display in the task. Can be specified in several different formats:

```
// Spans 1 month, starting at the first month of the timeline
#task("Task", (0, 1))
```

```
(
  (
    type: "task",
    name: "Task",
    lines: ((from: 0, to: 1),),
  ),
)
```

```
// One red line at month 1, and a line spanning 2 months starting at
month 4
#task("Task", (from: 0, to: 1, style: (stroke: red)), (3, 5))
```

```
(
  (
    type: "task",
    name: "Task",
    lines: (
      (from: 0, to: 1, style: (stroke: rgb("#ff4136"))),
      (from: 3, to: 5),
    ),
  ),
)
```

`#taskgroup(⟨title⟩, ⟨tasks⟩)`

Groups tasks together in a box. If `title` is specified, a title will be displayed, with a line spanning all the inner tasks.

Argument

`⟨title⟩: none` — `content`

The title of the task group

Argument

⟨tasks⟩ `content`

The tasks to display in the group

```
#taskgroup(title: "Research", {
  task("Task 1", (0, 1))
  task("Task 2", (3, 5))
})
```

```
(
  (
    type: "taskgroup",
    tasks: (
      (
        type: "task",
        name: "Research",
        lines: ((from: 0, to: 5),),
      ),
      (
        type: "task",
        name: "Task 1",
        lines: ((from: 0, to: 1),),
      ),
      (
        type: "task",
        name: "Task 2",
        lines: ((from: 3, to: 5),),
      ),
    ),
  ),
)
```

```
#milestone(
  ⟨body⟩,
  ⟨at⟩,
  ⟨style⟩,
  ⟨overhang⟩,
  ⟨spacing⟩,
  ⟨anchor⟩: "top"
)
```

Defines a milestone. The way it's displayed depends on the `milestone-layout` option of the `#timeline` command.

Argument

⟨at⟩ `float`

The month at which the milestone should be displayed. Can be fractional.

Argument

⟨style⟩: () `dictionary`

Style for the milestone line. Defaults to `milestone-line-style`.

Argument
`⟨overhang⟩: 5pt` `length`

How far the milestone line should extend past the end of the timeline. Defaults to `milestone-overhang`.

Argument
`⟨spacing⟩: 5pt` `length`

Spacing between the milestone line and the text. Defaults to `spacing`.

Argument
`⟨anchor⟩: "top"` `str`

The anchor point for the milestone text. Can be `top`, `bottom`, `left`, `right`, `top-left`, `top-right`, `bottom-left`, `bottom-right`, `center`, `center-left`, `center-right`, `center-top`, `center-bottom`. Defaults to `top`.

Argument
`⟨body⟩` `content`

The text to display next to the milestone line

Part I.
Index