anki-typst

Create anki cards from typst.

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1. Examples

Via theorem environment:

```
#import anki.theorems: item
// Don't forget this! v
#show: anki.setup.with(enable_theorems:
true)
// create item kinds
#let example = item("Example", initial_tags:
("example",))
#let theorem = item("Theorem", proof_name:
"\"Proof\"")
// create item
#example("Pythagoras")[
a^2 + b^2 = c^2 
// use secondary numbering
#example("triangle", secondary: auto)[
 #sym.triangle.tr.filled
#example("another triangle", secondary:
 #sym.triangle.t.stroked
// and a theorem, with a custom number
#theorem("Triangular numbers", number: "42")
 The triangular numbers are given by:
  T_n = sum_(k=1)^n k = (n(n+1))/2 
  Induction over n.
```

Via raw function:

```
#import anki: anki_export

#anki_export(
   id: "id 29579",
   tags: ("Perfect", ),
   deck: "beauty",
   model: "simple",
   question: "Are you beautiful?",
   answer: "Yes!",
)
```

Example 1.0.1 (Pythagoras).

$$a^2 + b^2 = c^2$$

Example 1.0.1a (triangle).

Example 1.0.1b (another triangle). \triangle

Theorem 42 (Triangular numbers). The triangular numbers are given by:

$$T_n=\sum_{k=1}^n k=\frac{n(n+1)}{2}$$

"Proof". Induction over n.

2. Function reference

2.1. lib

setup

Setup the document

This is crucial for displaying everything correctly!

Example:

```
show: anki.setup.with(enable_theorems: true)
```

Parameters

```
setup(
  doc: content,
  export: bool auto,
  enable_theorems: bool,
  title: str none,
  prefix_deck_names_with_numbers: bool
) -> content
```

```
doc content
```

The document to wrap.

```
export bool or auto
```

Whether to enable export mode. If export is auto, anki-typst will try to read from sys.inputs.

Default: auto

```
enable_theorems bool
```

Whether to enable theorem support (via ctheorems)

Default: false

```
title str or none
```

The top-level deck name of all cards.

Default: none

```
prefix_deck_names_with_numbers bool
```

Whether to prefix all deck names with the corresponding heading number.

Default: false

2.2. raw

anki_export

Create an anki card.

Even though the default values of id, deck and model are none, they are required! This does not create the card on its own, you have to use the command line interface!

Example

```
#import anki: anki_export

#anki_export(
   id: "id 29579",
   tags: ("Perfect", ),
   deck: "beauty",
   model: "simple",
   question: "Are you beautiful?",
   answer: "Yes!",
)
```

Parameters

```
anki_export(
  id: str,
  tags: array,
  deck: str,
  model: str,
  number: int str none,
    ..fields: arguments
)
```

id str

The id of the card. Used to update the card later on.

Default: none

```
tags array
Tags to add to the card.
Default: ()
```

```
deck str
```

Name of the card deck. Anki nests decks with ::, so you can try Deck::Subdeck.

Default: none

```
model str
```

Name of the card model.

Default: none

number int or str or none

The number of the card. Not really special but passed differently to the command line interface.

Default: none

..fields arguments

Additional fields for the anki card.

2.3. theorems

anki_thm

Create an anki card.

Example

```
#import anki.theorems: anki_thm

#anki_thm(
   "id 29579",
   tags: ("Perfect", ),
   deck: "beauty",
   question: "Are you beautiful?",
   answer: "Yes!",
)
```

Parameters

```
anki_thm(
  id: str,
  tags: array,
  deck: none str,
  model: none str,
  numbering: str function none,
  number: auto function array,
  secondary: none auto true function array,
  secondary_numbering: str function none,
    ..fields: arguments
)
```

id str

The id of the card. Used to update the card later on.

```
tags array
Tags to add to the card.
Default: ()
```

```
deck none or str
```

Name of the deck. Anki nests decks with ::, so you can try Deck::Subdeck. If deck is none it will be read from state.

Default: none

```
model none or str
```

Name of the model. If model is none it will be read from state.

Default: none

```
numbering str or function or none

The pattern for the primary number.

Default: "1.1"
```

```
    number
    auto
    or
    function
    or
    array

    The primary number of the card.

    Default: auto
```

```
secondary none or auto or true or function or array

The secondary number of the card.

Default: none
```

```
secondary_numbering str or function or none

The pattern for the secondary number.

Default: "a"
```

```
..fields arguments

Additional fields for the anki card.
```

deck

Set the current deck name.

Parameters

```
deck(name: str)
```

```
name str
```

New name.

inner

Inner function to create anki items.

```
Parameters
```

```
inner(
  front: content str,
  content: content,
  tags: array,
  deck: none str,
  model: none str,
  clear_tags: bool,
  number: auto function array,
  secondary: none auto true function array,
  ..maybe_proof: none content
        content or str
front
Front content for the card.
           content
content
Main content for the card.
tags
       array
Tags to add to the card.
Default: ()
deck
        none or str
Name of the deck. Anki nests decks with ::, so you can try Deck::Subdeck. If deck is none it
will be read from state.
Default: none
model
         none or str
Name of the model. If model is none it will be read from state.
Default: none
clear_tags
              bool
Remove initial_tags and use only tags.
Default: false
number
           auto or function or array
The primary number of the card.
Default: auto
```

```
secondary none or auto or true or function or array

The secondary number of the card.

Default: none
```

```
..maybe_proof none or content

The proof of the card if specified.
```

item

Main function to create anki items.

This function returns a function which represents an item kind. You can call the returned function multiple times to create multiple items.

Examples

```
#import anki.theorems: item
// Don't forget this!
#show: anki.setup.with(enable_theorems:
true)
// create item kinds
#let example = item("Example", initial_tags:
("example",))
#let theorem = item("Theorem", proof_name:
"\"Proof\"")
// create item
#example("Pythagoras")[
a^2 + b^2 = c^2 
// use secondary numbering
#example("triangle", secondary: auto)[
 #sym.triangle.tr.filled
#example("another triangle", secondary:
 #sym.triangle.t.stroked
1
// and a theorem, with a custom number
#theorem("Triangular numbers", number: "42")
 The triangular numbers are given by:
 T_n = sum_(k=1)^n k = (n(n+1))/2 
  Induction over n.
]
```

```
Example 2.3.1 (Pythagoras).
```

$$a^2 + b^2 = c^2$$

Example 2.3.1a (triangle).

Example 2.3.1b (another triangle). \triangle

Theorem 42 (Triangular numbers). The triangular numbers are given by:

$$T_n = \sum_{k=1}^n k = \frac{n(n+1)}{2}$$

"**Proof**". Induction over n.

Parameters

```
item(
  name: str,
  initial_tags: array,
  base_level: none int,
  inset: relative dictionary,
  separator: content,
  numbering: str function none,
  secondary_numbering: str function,
  create_item_label: bool,
  item_label_prefix: str,
  item_args: dict,
  id: function,
  proof_name: str,
  proof_args: dict
)
```

name str

Name of the item kind.

initial_tags array

Tags to add to each item of this kind. To remove these tags pass clear_tags: true to the inner function.

Default: ()

base_level none or int

The number of levels from headings to take for item numbering. none means "use all heading levels".

Default: 2

inset relative or dictionary

How much to pad the block's content.

Default: 0em

separator content

Separator between name and body.

Default: [. #h(0.1em)]

numbering str or function or none

The numbering pattern for the primary number.

Default: "1.1"

secondary_numbering str or function

The numbering pattern for the secondary number.

Default: "a"

create_item_label bool

Whether to create a new label for each item of this kind. The label will be item_level_prefix + name

Default: true

item_label_prefix str

Prefix for item labels.

Default: ""

item_args dict

Arguments which will be passed to ctheorems for each item of this kind.

Default: (:)

id function

Function to create the id of the card. The id must be unique as it is used to update cards later on. The function will be called with plain_front, deck, model, number, secondary, ..fields.

Default: fields => fields.at("plain_front")

proof_name str

How the proof (or in general second argument) should be called.

Default: "Proof"

proof_args dict

Arguments which will be passed to ctheorems for each proof.

Default: (:)

model

Set the current model name.

Parameters

```
name str
New name.
```

set thmcounter

Set the counter for the theorems.

Example:

```
anki.theorems.set_thmcounter(items: (3, 5, 7))
// After this, the next item will have the number 1.0.2
anki.theorems.set_thmcounter(items: (1, 0, 1))
```

Parameters

```
set_thmcounter(
  heading: int array function,
  items: array
)
```

```
heading int or array or function

The new heading counter value.

Default: none
```

```
items array
```

The new item counter value. Each element in items corresponds to a level. The base_level argument of item corresponds to the number of items.

Default: none

setup

Setup the document

This is crucial for displaying everything correctly!

Example:

```
show: anki.theorems.setup
```

Parameters

setup(doc: content) -> content

doc content

The document to wrap.