
1 Example Section

1.1 Predefined Commands

Not a lot, but still useful.

- **defc**: Definition color and bold
- **mathc**: Math color
- **codec**: Code color and ttfont

1.2 Predefined Box Types

I have defined multiple tcolorbox environments, to make it easier to use them, without always having to add the options.

In general there are three types of boxes:

- **defbox** for definitions, concepts etc.
- **mathbox** for math
- **codebox** for code

They mainly differ in color, which can be easily changed in `summary_individuals.tex`

For all three types of boxes there are some small different versions:

1.2.1 Definition Boxes

defbox

Normal definition box, with title, spanning the whole width of the environment. Takes title as the first argument and other options as the second argument.

defbox*: Same as **defbox**, but without a title. Can take one argument, which will be used as additional options.

smalldefbox

Like **defbox** but with the `hbox` option. Makes it adapt the width to the content.

smalldefbox*: Is to **smalldefbox** as **defbox*** is to **defbox**.

csdb*: Like **smalldefbox*** but centered to the environment.

inldefbox: Way to put definitions in-line.

1.2.2 Math Boxes

mathbox

Normal math box, with title, spanning the whole width of the environment. Takes title as the first argument and other options as the second argument.

mathbox*: Same as **mathbox**, but without a title. Can take one argument, which will be used as additional options.

smallmathbox

Like **mathbox** but with the **hbox** option. Makes it adapt the width to the content.

smallmathbox*: Is to **smallmathbox** as **mathbox*** is to **mathbox**.

csmb*: Like **smallmathbox*** but centered to the environment.

inlmathbox: Way to put math in-line.

1.2.3 Code Boxes

codebox

Normal math box, with title, spanning the whole width of the environment. Takes title as the first argument and other options as the second argument.

codebox*: Same as **codebox**, but without a title. Can take one argument, which will be used as additional options.

smallcodebox

Like **codebox** but with the **hbox** option. Makes it adapt the width to the content.

smallcodebox*: Is to **smallcodebox** as **codebox*** is to **codebox**.

cscb*: Like **smallcodebox*** but centered to the environment.

inlcodebox: Way to put code snippets in-line. Defaults to **ttfont**.

1.3 Code Snippets

1.3.1 Actual Code with listings

For actual code snippets I use the **listings** package. There are some graphical options in the preamble.

Example Java

```
1 public class Example {
2     /**
3      * This is a docstring
4      */
5     public static void main(String[] args) {
6         // This is a comment
7         System.out.println("Hello World!");
8         return;
9     }
10 }
```

Example Python

```
1 # This is a comment
2 def example() -> bool:
3     """
4     This is a docstring
5     """
6     print("Hello World!")
7     return True
```

1.3.2 Pseudocode with algorithm2e

For pseudocode I use `algorithm2e`. I've modified the style in the preamble to make it look a bit nicer, especially to show scope better. There are also some additional commands I've defined - For these check the preamble.

Example Pseudocode

```
1 Function ExamplePseudocode(args):
2     // This is a comment
3     For int i = 0; i < 10; i = i + 1 do
4         If condition then
5             return true
```