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# Summary Template

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LaTeX version:  [moricetamol](#)

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# 1 Example Section

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## 1.1 Predefined Commands

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Not a lot, but still useful.

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

## 1.2 Predefined Box Types

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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

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#### 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

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### 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

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### 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

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### 1.3.1 Actual Code with listings

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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
```