

# The **duckuments** package

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## 1 Introducktion

This package was inspired by the question [getting ducks in example images](#). It began on the idea to patch `\includegraphics` to automatically change its behaviour if `example-image-duck` is used, but then it turned out to be a simple alternative to the `blindtext` package.

It is written as a docstrip file: executing `latex duckuments.dtx` generates the `duckuments.sty`, `example-image-duck.tex`, and `example-image-duck-portrait.tex` file and typesets this duckumentation; execute `tex duckuments.dtx` to only generate the files `duckuments.sty`, `example-image-duck.tex`, and `example-image-duck-portrait.tex`.

For its functionality `example-image-duck.tex` and `example-image-duck-portrait.tex` must be compiled at least once. The sources are hosted on [github](#).

**The package does currently only work on pdf<sub>E</sub>X, Lu<sub>A</sub><sub>T</sub><sub>E</sub>X, and X<sub>E</sub><sub>T</sub><sub>E</sub>X.**

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## 2 Duckumentation

### 2.1 Ducky content

---

#### `\duckument[<key=value>]`

Produces a duckument with one sectioning entry of each level starting at `\chapter` (if available) and two variants of the list environment `itemize`, `enumerate`, and `description`, one only at top level and one with 4 environments nested. The `<key=value>`s accept every key as explained in [subsection 2.4](#), but not every key has an effect.

---

#### `\blindduck[<key=value>]`

Produces one paragraph of dummy content. The `<key=value>`s accept every key as explained in [subsection 2.4](#), but not every key has an effect.

---

#### `\ducklist{*>}{<environment>}`

Sets a list of the specified `<environment>`, if `{*}` is given `\item[<dummy>]` is used instead of only `\item`. For `description` the starred version is used automatically.

---

#### `\ducklistlist{*>}{<list>}`

Sets 4 levels of a nested list of the specified `<environment>`, if `{*}` is given `\item[<dummy>]` is used instead of only `\item`. For `description` the starred version is used automatically.

---

#### `\duckitemize`

Abbreviation for `\ducklist{itemize}`.

---

#### `\duckenumerate`

Abbreviation for `\ducklist{enumerate}`.

---

#### `\duckdescription`

Abbreviation for `\ducklist{description}`.

### 2.2 Other Macros

---

#### `\duckumentsCreateExampleFiles`

Creates the files `example-image-duck.tex` and `example-image-duck-portrait.tex` in the current working directory.

---

#### `\duckumentsDrawRandomDucks`

---

#### `\duckumentsDrawRandomDucks{*>}[<count>]`

Draws `<count>` random tikzducks using `TikZ`. `<count>` defaults to `\duckuments@randoms`. Note that `duckuments` doesn't load `TikZ`, this macro is for the use in `example-image-duck.tex` and `example-image-duck-portrait.tex`. If the optional star is given, the images will be drawn in portrait orientation else in landscape.

## 2.3 Patches

The package patches `\includegraphics` if `graphicx` is loaded at the time the patch is applied (see subsection 2.4, immediate). The patch changes the behaviour if the used image file is `example-image-duck` or `example-image-duck-portrait`. If that is the case, a random page of that document is used. There shouldn't be any change in behaviour if other files are used.

The patch is done so that one can use `tikzducks` ducks without the need of loading `tikz` in a minimal working duckument as example images.

## 2.4 Options

The package and commands which take a  $[\langle key=value \rangle]$  accept the following options. Some of which only make sense as package options. The **bold** printed value is the one used if you don't specify a value. The *italic* printed value is the initial one.

**toc=true|false**

If **true** the `\duckument` contains a ToC. During package load time the key doesn't throw errors but only warnings for values other than **true** and **false**. This is done for compatibility reasons with classes which take a non-boolean `toc` option (like those of KOMA-script).

**maths=both|inline|display|none**

If **both** the `\blindduck` (which is also used by `\duckument`) contains both inline and displayed math. With **inline** and **display** the respective maths is activated. **none** disables both.

**full**

This typesets the full range of `\blindduck`. Don't use this as a package option.

**all** synonym for **full**.

**immediate=true|false**

If **true** `\includegraphics` is patched during package load time, else the patching is done `\AtBeginDocument`.

Additionally `\blindduck` and `\duckument` accept another key which must match one of the following patterns and doesn't get any value. Patterns:

**$\langle num1 \rangle$**

The paragraph  $\langle num1 \rangle$  is printed.

**$\langle num1 - \rangle$**

Like the above

**$\langle -num2 \rangle$**

The paragraphs up to  $\langle num2 \rangle$  are printed.

**$\langle num1 - num2 \rangle$**

The paragraphs from  $\langle num1 \rangle$  up to  $\langle num2 \rangle$  are printed.

**$\langle - \rangle$**  The next paragraph is printed.

If the used pattern includes a “-” a `\par` is used after each paragraph. If any pattern is used the next pattern that doesn't include a  $\langle num1 \rangle$  starts with the paragraph after the last used paragraph, cycling back to the first after the last available paragraph.



```

46           in~the~current~working~directory.
47       }
48   }
49 }%<<

```

And do the same for `example-image-duck-portrait.pdf`.

```

50 ^~A>>>
51 \file_if_exist:nF { example-image-duck-portrait.pdf }
52 {>>>
53   \str_if_eq:VnF \c_sys_jobname_str { example-image-duck-portrait }
54   {
55     \msg_if_exist:nnF { duckuments } { missing-file }
56     {
57       \msg_new:nnnn { duckuments } { missing-file }
58       {
59         The~file~`#1`~can't~be~found.~Make~sure~to~create~it
60         \tl_if_empty:nF{#2}{~#2}.
61       }
62       { Sorry~for~the~inconvenience.~#3 }
63     }
64   \msg_error:nnnn { duckuments } { missing-file }
65   { example-image-duck-portrait.pdf }
66   {
67     by~compiling~example-image-duck-portrait.tex~at~least~once
68   }
69   {
70     If~you~don't~find~the~file~on~your~machine~you~can~use~
71     '\duckumentsCreateExampleFiles'~in~your~document~to~produce~a~copy~
72     in~the~current~working~directory.
73   }
74 }
75 }%<<

```

### 3.2 Variables

`\duckuments@randoms` Stores the number of random ducks in `example-image-duck.pdf`.

```
76 \newcommand*\duckuments@randoms{128}
```

(End definition for `\duckuments@randoms`. This variable is documented on page ??.)

`\l_duckuments_immediate_bool` Stores whether the patch is to be done during package load time.

```
77 \bool_new:N \l_duckuments_immediate_bool
```

(End definition for `\l_duckuments_immediate_bool`. This variable is documented on page ??.)

`\l_duckuments_toc_bool` Stores whether to display a ToC in `\duckument`.

```
78 \bool_new:N \l_duckuments_toc_bool
```

(End definition for `\l_duckuments_toc_bool`. This variable is documented on page ??.)

`\l_duckuments_math_inline_bool` Stores whether to display inline math in `\blindduck`.

```
79 \bool_new:N \l_duckuments_math_inline_bool
```

(End definition for `\l_duckuments_math_inline_bool`. This variable is documented on page ??.)

```

\l_duckuments_math_display_bool Stores whether to display displayed math in \blindduck.
80 \bool_new:N \l_duckuments_math_display_bool

(End definition for \l_duckuments_math_display_bool. This variable is documented on page ??.)

\l_duckuments_blindduck_pars_bool Stores whether each paragraph of \blindduck should end with a \par.
81 \bool_new:N \l_duckuments_blindduck_pars_bool

(End definition for \l_duckuments_blindduck_pars_bool. This variable is documented on page ??.)

\l_duckuments_range_seq Stores the paragraphs range for \blindduck.
82 \seq_new:N \l_duckuments_range_seq

(End definition for \l_duckuments_range_seq. This variable is documented on page ??.)

\g_duckuments_blindduck_start_int Stores the paragraph with which \blindduck should start.
83 \int_new:N \g_duckuments_blindduck_start_int
84 \int_gset:Nn \g_duckuments_blindduck_start_int { \c_one_int }

(End definition for \g_duckuments_blindduck_start_int. This variable is documented on page ??.)

\g_duckuments_blindduck_end_int Stores the paragraph with which \blindduck should end.
85 \int_new:N \g_duckuments_blindduck_end_int

(End definition for \g_duckuments_blindduck_end_int. This variable is documented on page ??.)

```

### 3.3 Constants

```

\c_duckuments_example_regex Regex against which the patch of \includegraphics is testing.
86 \regex_const:Nn \c_duckuments_example_regex
87 {
88   example-image-duck
89   |example-image-duck.pdf
90   |example-image-duck-portrait
91   |example-image-duck-portrait.pdf
92 }

(End definition for \c_duckuments_example_regex. This variable is documented on page ??.)

\c_duckuments_range_regex Regex against which the optional range in \blindduck is checked.
93 \regex_const:Nn \c_duckuments_range_regex { (\d+|\d+-|-\d+|\d+-\d+|-) }

(End definition for \c_duckuments_range_regex. This variable is documented on page ??.)

\c_duckuments_blindduck_pars_int
94 \int_const:Nn \c_duckuments_blindduck_pars_int { 5 }

(End definition for \c_duckuments_blindduck_pars_int. This variable is documented on page ??.)

```





```

190 ,maths .choice:
191 ,maths / both .code:n =
192 {
193     \bool_set_true:N \l_duckuments_math_inline_bool
194     \bool_set_true:N \l_duckuments_math_display_bool
195 }
196 ,maths / display .code:n = \bool_set_true:N \l_duckuments_math_display_bool
197 ,maths / inline .code:n = \bool_set_true:N \l_duckuments_math_inline_bool
198 ,maths / none .code:n =
199 {
200     \bool_set_false:N \l_duckuments_math_inline_bool
201     \bool_set_false:N \l_duckuments_math_display_bool
202 }
203 ,maths .default:n = both
204 ,toc .code:n =
205 {
206     \str_case:nnF { #1 }
207     {
208         { true } { \bool_set_true:N \l_duckuments_toc_bool }
209         { false } { \bool_set_false:N \l_duckuments_toc_bool }
210     }
211     {
212         \msg_warning:nnn { duckuments } { non-boolean~toc } { #1 }
213     }
214 }
215 ,toc .default:n = true
216 ,unknown .code:n =
217     { \msg_error:nnx { duckuments } { option~unknown } { \l_keys_key_tl } }
218 }%<<
219 \ProcessKeysOptions { duckuments }
220 \keys_define:nn { duckuments }
221 {>>>
222     ,toc .undefined:
223     ,toc .bool_set:N = \l_duckuments_toc_bool
224     ,toc .default:n = true
225     ,unknown .code:n = \duckuments_blindduck_range_test:V \l_keys_key_tl
226 }%<<
227 \bool_if:NTF \l_duckuments_immediate_bool
228     { \AtEndOfPackage { \duckuments_patch_includegraphics: } }
229     { \AtBeginDocument { \duckuments_patch_includegraphics: } }

```

## 3.6 Functions

### 3.6.1 Duckument Level

\duckument

```

230 \NewDocumentCommand \duckument { O{} }
231 {>>>
232     \group_begin:
233     \keys_set:nn { duckuments } { #1 }
234     \bool_if:NT \l_duckuments_toc_bool { \tableofcontents }
235     \cs_if_exist_use:NT \chapter
236         { {\duckuments@headings@text{0}} \blinnduck }
237     \duckuments@headings{1} \blinnduck
238     \duckuments@headings{2} \blinnduck

```

```

239   \duckuments@headings{3} \blindduck
240   \duckuments@headings{4} \blindduck
241   \section {Lists}
242   \duckuments_list_example:n { itemize }
243   \duckuments_list_example:n { enumerate }
244   \duckuments_list_example:n { description }
245   \group_end:
246 }%<<

```

(End definition for `\duckument`. This function is documented on page 2.)

### `\blindduck`

```

247 \NewDocumentCommand \blindduck { O{} }
248 {%
249   \group_begin:
250   \keys_set:nn { duckuments } { #1 }
251   \duckuments@blindduck@text
252   \bool_if:NT \l_1_duckuments_blindduck_pars_bool { \par }
253   \group_end:
254 }%<<

```

(End definition for `\blindduck`. This function is documented on page 2.)

### `\ducklist`

```

255 \NewDocumentCommand \ducklist { s m }
256 {%
257   \begin{#2}
258     \IfBooleanTF { #1 }
259       {\ducklists@content@starred}
260       {
261         \str_if_eq:nnTF { #2 } { description }
262         \ducklists@content@starred
263         \ducklists@content
264       }
265   \end{#2}
266 }%<<

```

(End definition for `\ducklist`. This function is documented on page 2.)

### `\ducklistlist`

```

267 \NewDocumentCommand \ducklistlist { s m }
268 {%
269   \IfBooleanTF { #1 }
270     { \duckuments@listlist@starred { #2 } }
271     {
272       \str_if_eq:nnTF { #2 } { description }
273       { \duckuments@listlist@starred { description } }
274       { \duckuments@listlist{#2} }
275     }
276 }%<<

```

(End definition for `\ducklistlist`. This function is documented on page 2.)

### `\duckenumerate`

```

277 \newcommand*\duckenumerate{\ducklist{enumerate}}

```

(End definition for `\duckenumerate`. This function is documented on page 2.)

### `\duckitemize`

278 `\newcommand*\duckitemize{\ducklist{itemize}}`

(End definition for `\duckitemize`. This function is documented on page 2.)

### `\duckdescription`

279 `\newcommand*\duckdescription{\ducklist{description}}`

(End definition for `\duckdescription`. This function is documented on page 2.)

### `\duckumentsCreateExampleFiles`

Create example-image-duck.tex

280 `\newcommand*\duckumentsCreateExampleFiles`  
281   `{%>>`  
282   `\iow_new:N \duckuments_example_file_iow`  
283   `\iow_open:Nn \duckuments_example_file_iow { example-image-duck.tex }`  
284   `\iow_now:Nn \duckuments_example_file_iow`  
285    `{ \documentclass[tikz,multi]{standalone} }`  
286   `\iow_now:Nn \duckuments_example_file_iow`  
287    `{ \usepackage{tikzducks} }`  
288   `\iow_now:Nn \duckuments_example_file_iow`  
289    `{ \usepackage{duckuments} }`  
290   `\iow_now:Nn \duckuments_example_file_iow`  
291    `{ \begin{document} }`  
292   `\iow_now:Nn \duckuments_example_file_iow`  
293    `{ \duckumentsDrawRandomDucks }`  
294   `\iow_now:Nn \duckuments_example_file_iow`  
295    `{ \end{document} }`  
296   `\iow_close:N \duckuments_example_file_iow`

Create example-image-duck-portrait.tex

297 `\iow_open:Nn \duckuments_example_file_iow`  
298   `{ example-image-duck-portrait.tex }`  
299 `\iow_now:Nn \duckuments_example_file_iow`  
300   `{ \documentclass[tikz,multi]{standalone} }`  
301 `\iow_now:Nn \duckuments_example_file_iow`  
302   `{ \usepackage{tikzducks} }`  
303 `\iow_now:Nn \duckuments_example_file_iow`  
304   `{ \usepackage{duckuments} }`  
305 `\iow_now:Nn \duckuments_example_file_iow`  
306   `{ \begin{document} }`  
307 `\iow_now:Nn \duckuments_example_file_iow`  
308   `{ \duckumentsDrawRandomDucks* }`  
309 `\iow_now:Nn \duckuments_example_file_iow`  
310   `{ \end{document} }`  
311 `\iow_close:N \duckuments_example_file_iow`  
312 `}%<<`

(End definition for `\duckumentsCreateExampleFiles`. This function is documented on page 2.)

### `\duckumentsDrawRandomDucks`

313 `\newcommand*\duckumentsDrawRandomDucks`  
314   `{%>>`  
315    `\@ifstar`

```

316      {\duckumentsDrawRandomDucks@portrait}
317      {\duckumentsDrawRandomDucks@landscape}%
318 }%<<

```

(End definition for `\duckumentsDrawRandomDucks`. This function is documented on page ??.)

### 3.6.2 Intern

`\duckuments@headings`

```

319 \newcommand*\duckuments@headings[1]
320   {%
321     >>>
322     \ifcase#1\relax
323       \expandafter\chapter
324     \or \expandafter\section
325     \or \expandafter\subsection
326     \or \expandafter\subsubsection
327     \or \expandafter\paragraph
328     \else \expandafter\@gobble
329     \fi
330     {\duckuments@headings@text{#1}}%
331   }%<<

```

(End definition for `\duckuments@headings`. This function is documented on page ??.)

`\duckuments@headings@level`

```

331 \newcommand*\duckuments@headings@level[1]
332   {%
333     >>>
334     (
335       \ifcase#1
336         chapter
337       \or section
338       \or subsection
339       \or subsubsection
340       \or paragraph
341       \fi
342     )
343   }%<<

```

(End definition for `\duckuments@headings@level`. This function is documented on page ??.)

`\duckuments@ifinline`

```

343 \newcommand*\duckuments@ifinline[2] []
344   { \bool_if:NTF \l_duckuments_math_inline_bool { #2 } { #1 } }

```

(End definition for `\duckuments@ifinline`. This function is documented on page ??.)

`\duckuments@ifdisplay`

```

345 \newcommand*\duckuments@ifdisplay[2] []
346   { \bool_if:NTF \l_duckuments_math_display_bool { #2 } { #1 } }

```

(End definition for `\duckuments@ifdisplay`. This function is documented on page ??.)

```
\duckuments_list_example:n
```

```
347 \cs_new_protected_nopar:Npn \duckuments_list_example:n #1
348 {%
349   \subsection{Example\ for\ ducks\ (#1)}
350   \ducklist {#1}
351   \subsubsection{Nested\ ducks}
352   \ducklistlist {#1}
353 }%<<
```

(End definition for `\duckuments_list_example:n`. This function is documented on page ??.)

```
\duckuments@enquote
```

```
354 \NewDocumentCommand \duckuments@enquote { s +m }
355 {%
356   \IfBooleanTF {#1} {
357     \cs_if_exist_use:NTF
358       \enquote { * {#2} }
359       { '#2' }
360   }
361   {
362     \cs_if_exist_use:NTF
363       \enquote { {#2} }
364       { '#2' }
365   }
366 }%<<
```

(End definition for `\duckuments@enquote`. This function is documented on page ??.)

```
\duckumentsDrawRandomDucks@landscape
```

```
368 \newcommand*\duckumentsDrawRandomDucks@landscape[1] [ \duckuments@randoms ]
369 {%
370   \foreach\x in {1,2,...,#1} {
371     \duckumentsDrawRandomDucks@draw{6.47214}{4}{3.23607}{2}
372   }%<<
```

(End definition for `\duckumentsDrawRandomDucks@landscape`. This function is documented on page ??.)

```
\duckumentsDrawRandomDucks@portrait
```

```
373 \newcommand*\duckumentsDrawRandomDucks@portrait[1] [ \duckuments@randoms ]
374 {%
375   \foreach\x in {1,2,...,#1} {
376     \duckumentsDrawRandomDucks@draw{1.8541}{3}{.92705}{1.5}
377   }%<<
```

(End definition for `\duckumentsDrawRandomDucks@portrait`. This function is documented on page ??.)

```
\duckumentsDrawRandomDucks@draw
```

```
378 \newcommand*\duckumentsDrawRandomDucks@draw[4]
379 {%
380   \begin{tikzpicture}
381     \draw[fill=gray!50,use as bounding box] (0,0) rectangle (#1,#2);
382     \draw[gray,thin] (0,0) -- (#1,#2);
383     \draw[gray,thin] (0,#2) -- (#1,0);
384     \draw[gray,thin] (#3,0) -- (#3,#2);
```

```

385     \draw[gray,thin] (0,#4) -- (#1,#4);
386     \node at (#3,#4) {\tikz\randduck;};
387     \draw[black] (0,0) rectangle (#1,#2);
388 \end{tikzpicture}
389 }%<<

```

(End definition for `\duckumentsDrawRandomDucks@draw`. This function is documented on page ??.)

`\duckuments_patch_includegraphics:`

```

390 \cs_new_protected:Npn \duckuments_patch_includegraphics:
391 {%
392 >>>   @ifpackageloaded { graphicx }
393 {
394     \LetLtxMacro{\duckuments@includegraphicsBAK}{\includegraphics}
395     \RenewDocumentCommand \includegraphics
396     { >{\duckuments_starred:n}s O{} o m }
397     {
398         \IfValueTF { ##3 }
399         { \duckuments@includegraphicsBAK##1[##2][##3][##4] }
400         {
401             \regex_match:NnTF \c_duckuments_example_regex { ##4 }
402             {
403                 \duckuments@includegraphicsBAK##1
404                 [{page=\duckuments_random_page:,##2}]
405                 { ##4 }
406             }
407             {
408                 \duckuments@includegraphicsBAK##1[##2][##4]
409             }
410         }
411     }
412 }
413 {}%
414 }%<<

```

(End definition for `\duckuments_patch_includegraphics`. This function is documented on page ??.)

`\duckuments_blindduck_range_test:n`

```

415 \cs_new_protected:Npn \duckuments_blindduck_range_test:n #1
416 {%
417 >>>   \regex_match:NnTF \c_duckuments_range_regex { #1 }
418   {
419       \seq_set_split:Nnn \l_duckuments_range_seq { - } { #1 }
420       \int_compare:nNnTF
421       { \c_one_int } = { \seq_count:N \l_duckuments_range_seq }
422       {
423           \cs_set:Npn \duckuments_blindduck@text
424           {
425               \duckuments_blindduck_single_par:n { #1 }
426               \duckuments_blindduck_set_next_start:n { #1 }
427           }
428       }
429   {
430       \bool_set_true:N \l_duckuments_blindduck_pars_bool
431       \exp_args:Nx

```

```

432     \tl_if_empty:nF
433     { \seq_item:Nn \l_duckuments_range_seq { \c_one_int } }
434     {
435         \int_gset:Nn \g_duckuments_blindduck_start_int
436         { \seq_item:Nn \l_duckuments_range_seq { \c_one_int } }
437     }
438     \exp_args:Nx
439     \tl_if_empty:nTF { \seq_item:Nn \l_duckuments_range_seq { 2 } }
440     {
441         \int_gset_eq:NN
442             \g_duckuments_blindduck_end_int
443             \g_duckuments_blindduck_start_int
444     }
445     {
446         \int_set:Nn \g_duckuments_blindduck_end_int
447             { \seq_item:Nn \l_duckuments_range_seq { 2 } }
448     }
449     \duckuments_blindduck_set_text:xx
450     { \int_use:N \g_duckuments_blindduck_start_int }
451     { \int_use:N \g_duckuments_blindduck_end_int }
452 }
453 }
454 {
455     \exp_args:NnnV
456     \msg_error:nnn { duckuments } { option-unknown } \l_keys_key_tl
457 }
458 }%<<
459 \cs_generate_variant:Nn \duckuments_blindduck_range_test:n { V }

(End definition for \duckuments_blindduck_range_test:n. This function is documented on page ??.)
```

\duckuments\_blindduck\_set\_text:nn

```

460 \cs_new:Npn \duckuments_blindduck_set_text:nn #1 #2
461 {%
462     \def \duckuments@blindduck@text
463     {
464         \int_step_function:nnnN { #1 } { \c_one_int } { #2 }
465         \duckuments_blindduck_par_loop:n
466         \duckuments_blindduck_set_next_start:n { #2 }
467     }
468 }%<<
469 \cs_generate_variant:Nn \duckuments_blindduck_set_text:nn { xx }

(End definition for \duckuments_blindduck_set_text:nn. This function is documented on page ??.)
```

\duckuments\_blindduck\_set\_next\_start:n

```

470 \cs_new:Npn \duckuments_blindduck_set_next_start:n #1
471 {%
472     \int_gset:Nn \g_duckuments_blindduck_start_int
473     { \int_mod:nn { #1 } { \c_duckuments_blindduck_pars_int } + \c_one_int }
474 }%<<

(End definition for \duckuments_blindduck_set_next_start:n. This function is documented on page ??.)
```

```

\duckuments_blindduck_single_par:n
475 \cs_new:Npn \duckuments_blindduck_single_par:n #1
476 {%
477   >>>
478   \bool_if:nTF
479   {
480     \int_compare_p:nNn { #1 } > { \c_duckuments_blindduck_pars_int }
481     || \int_compare_p:nNn { #1 } < { \c_one_int }
482   }
483   {
484     \msg_error:nnxxxx { duckuments } { out-of-range }
485     { 1 } { \int_use:N \c_duckuments_blindduck_pars_int } { #1 }
486     { blindduck-paragraphs }
487     \duckuments@blindduck@text@i
488   }
489   {
490     \use:c { duckuments@blindduck@text@ \int_to_roman:n { #1 } }
491   }
492 }%<<

```

(End definition for `\duckuments_blindduck_single_par:n`. This function is documented on page ??.)

```

\duckuments_blindduck_par_loop:n
492 \cs_new:Npn \duckuments_blindduck_par_loop:n #1
493 {%
494   >>>
495   \duckuments_blindduck_single_par:n { #1 }
496   \par
497 }%<<

```

(End definition for `\duckuments_blindduck_par_loop:n`. This function is documented on page ??.)

```

\duckuments_starred:n
497 \cs_new_protected:Npn \duckuments_starred:n #1
498 {%
499   >>>
500   \IfBooleanTF { #1 }
501   {
502     \def\ProcessedArgument{*}
503   }
504   {
505     \def\ProcessedArgument{}
506   }
507 }%<<

```

(End definition for `\duckuments_starred:n`. This function is documented on page ??.)

```

\duckuments_random_page:
503 \cs_new:Npn \duckuments_random_page:
504   { \int_rand:n { \c_duckuments_example_pages_int } }

```

(End definition for `\duckuments_random_page:`. This function is documented on page ??.)

505 \ExplSyntaxOff

```

\duckuments@blindduck@text
506 \newcommand*\duckuments@blindduck@text{\duckuments@blindduck@text@i}
507 \newcommand*\duckuments@blindduck@text@i
508 {%
509   >>>
510   There once was a very smart but sadly blind duck. When it was still a small
511   duckling it was renowned for its good vision. But sadly as the duck grew
512   older it caught a sickness which caused its eyesight to worsen. It became so

```

```

512 bad, that the duck couldn't read the notes it once took containing much of
513 inline math\duckuments@ifinline{ just like its favoured equation: $d = u_c
514 \cdot k$. Only displayed equations remained legible%
515 \duckuments@ifdisplay[.]{ so it could still read \begin{equation}d = r a^k
516 e\hbox{.}\end{equation}} That annoyed the smart duck, as it wasn't able to
517 do its research any longer. It called for its underduckling and said:
518 \duckuments@enquote{Go, find me the best eye ducktor there is. He shall
519 heal me from my disease!}%
520 }%<<<
521 \newcommand*\duckuments@blindduck@text@ii
522 {%
523 >>> \duckuments@enquote{But my duck, how are you supposed to manage your daily
524 routines without my visual guidance}, replied the underduckling. The smart
525 duck's face turned grim in anger. \duckuments@enquote{You dare to talk
526 back?} The underduckling blushed ashamed. How could he have objections
527 after his duck gave strict orders? The underduckling was so embarrassed
528 about his own behaviour he had to solve an equation.%
529 }%<<<
530 \newcommand*\duckuments@blindduck@text@iii
531 {%
532 >>> After the equation was solved and the underduckling prepared his leave for
533 the next day it fell asleep in a shaky mood. It did not know what the
534 journey had prepared for him and if he was prepared enough for it. His sleep
535 was restless. The dreams he had that night were not calm and bright as they
536 used to be for an innocent underduckling.%
537 }%<<<
538 \newcommand*\duckuments@blindduck@text@iv
539 {%
540 >>> Before dawn the underduckling woke. He didn't have the feeling of being well
541 rested. But nonetheless he knew that this was the day he should leave.
542 Except saying goodbye to his beloved ones there was nothing holding him
543 back. His duck had sent him on the most important mission a five weeks old
544 inexperienced underduckling was ever sent on. He bid farewell to his mother,
545 all his brothers and sisters, and finally from his duck. The bag was
546 shouldered, the boots were tied, the underduckling left.%
547 }%<<<
548 \newcommand*\duckuments@blindduck@text@v
549 {%
550 >>> As the underduckling went along he saw a tree. It was so tall he couldn't
551 even approximate its height. Oh, how small he felt. What should he, a small
552 duckling whose plumage was still fluffy, achieve in this vast, gigantic
553 world? He stuck his trembling wings under the straps of his backpack to calm
554 his shaking limbs. Where should he start his search? How should he survive
555 in the hostile nature surrounding the sheltered pond of his community?
556 }%<<<

```

(End definition for \duckuments@blindduck@text. This function is documented on page ??.)

\duckuments@headings@text

```

557 \newcommand*\duckuments@headings@text[1]
558 {A friendly duck at level #1 \duckuments@headings@level{#1}}

```

(End definition for \duckuments@headings@text. This function is documented on page ??.)

```

\ducklists@content
 559 \newcommand*\ducklists@content
 560   {%
 561     \item First swims father drake
 562     \item Then floats mother duck
 563     \item After her paddles baby duckling
 564     \item And over there bathes uncle canard
 565   }%

```

*(End definition for \ducklists@content. This function is documented on page ??.)*

\ducklists@content@starred

```

 566 \newcommand*\ducklists@content@starred
 567   {%
 568     \item[drake] is the swimming father
 569     \item[duck] is the floating mother
 570     \item[duckling] is the paddling baby
 571     \item[canard] is the bathing uncle
 572   }%

```

*(End definition for \ducklists@content@starred. This function is documented on page ??.)*

\duckuments@listlist

```

 573 \newcommand*\duckuments@listlist[1]
 574   {%
 575     \begin{#1}
 576       \item swimming father drake
 577         \begin{#1}
 578           \item swimming father drake
 579             \begin{#1}
 580               \item swimming father drake
 581                 \begin{#1}
 582                   \item swimming father drake
 583                     \item floating mother duck
 584                   \end{#1}
 585                     \item floating mother duck
 586                   \end{#1}
 587                     \item floating mother duck
 588                   \end{#1}
 589                     \item floating mother duck
 590                   \end{#1}%
 591     }%

```

*(End definition for \duckuments@listlist. This function is documented on page ??.)*

\duckuments@listlist@starred

```

 592 \newcommand*\duckuments@listlist@starred[1]
 593   {%
 594     \begin{#1}
 595       \item[drake] is the swimming father
 596         \begin{#1}
 597           \item[drake] is the swimming father
 598             \begin{#1}
 599               \item[drake] is the swimming father

```

```
600          \begin{#1}
601              \item[drake] is the swimming father
602              \item[duck] is the floating mother
603          \end{#1}
604              \item[duck] is the floating mother
605          \end{#1}
606              \item[duck] is the floating mother
607          \end{#1}
608              \item[duck] is the floating mother
609          \end{#1}%
610      }%<<<
```

(End definition for \duckuments@listlist@starred. This function is documented on page ??.)

```
611 \endinput
612 </pkg>
```

## 4 The story of the duck

paragraph 1

There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any longer. It called for its underduckling and said: "Go, find me the best eye ducktor there is. He shall heal me from my disease!"

paragraph 2

"But my duck, how are you supposed to manage your daily routines without my visual guidance", replied the underduckling. The smart duck's face turned grim in anger. "You dare to talk back?" The underduckling blushed ashamed. How could he have objections after his duck gave strict orders? The underduckling was so embarrassed about his own behaviour he had to solve an equation.

paragraph 3

After the equation was solved and the underduckling prepared his leave for the next day it fell asleep in a shaky mood. It did not know what the journey had prepared for him and if he was prepared enough for it. His sleep was restless. The dreams he had that night were not calm and bright as they used to be for an innocent underduckling.

paragraph 4

Before dawn the underduckling woke. He didn't have the feeling of being well rested. But nonetheless he knew that this was the day he should leave. Except saying goodbye to his beloved ones there was nothing holding him back. His duck had sent him on the most important mission a five weeks old inexperienced underduckling was ever sent on. He bid farewell to his mother, all his brothers and sisters, and finally from his duck. The bag was shouldered, the boots were tied, the underduckling left.

paragraph 5

As the underduckling went along he saw a tree. It was so tall he couldn't even approximate its height. Oh, how small he felt. What should he, a small duckling whose plumage was still fluffy, achieve in this vast, gigantic world? He stuck his trembling wings under the straps of his backpack to calm his shaking limbs. Where should he start his search? How should he survive in the hostile nature surrounding the sheltered pond of his community?