Doconce Quick Reference

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WARNING: This quick reference is very incomplete!

Mission. Enable writing documentation with much mathematics and computer code *once, in one place* and include it in traditional LaTeX books, thesis, and reports, and without extra efforts also make professionally looking web versions with Sphinx or HTML. Other outlets include Google's blogger.com, Wikipedia/Wikibooks, IPython notebooks, plus a wide variety of formats for documents without mathematics and code.

0.1 Supported Formats

- Doconce currently translates files to the following formats:
- TEX (format latex and pdflatex)
- HTML (format html)
- reStructuredText (format rst)
- plain (untagged) ASCII (format plain)
- Sphinx (format sphinx)
- IPython notebook (format ipynb)
- MediaWiki (format mwiki)
- (Pandoc extended) Markdown (format pandoc)
- Googlecode wiki (format gwiki)
- Creoloe wiki (format cwiki)
- Epydoc (format epydoc)
- StructuredText (format st)
- 48 For documents with much code and mathematics, the best (and most sup-
- 49 ported) formats are latex, pdflatex, sphinx, and html; and to a slightly less
- extent mwiki and pandoc. The HTML format supports blogging on Google and
- 51 Wordpress.

0.2 Emacs syntax support

- The file .doconce-mode.el in the Doconce source distribution gives a "Doconce
- Editing Mode" in Emacs. Store the file in the home directory and add (load-file "~/.doconce-mode.el") to the .emacs file.
- Besides syntax highlighting of Doconce documents, this Emacs mode pro-
- vides a lot of shortcuts for setting up many elements in a document:

Emacs key	Action
Ctrl+c f	figure
Ctrl+c v	movie/video
Ctrl+c h1	heading level 1 (section/h1)
Ctrl+c h2	heading level 2 (subsection/h2)
Ctrl+c h3	heading level 2 (subsection/h3)
Ctrl+c hp	heading for paragraph
Ctrl+c me	math environment: !bt equation !et
Ctrl+c ma	math environment: !bt align !et
Ctrl+c ce	code environment: !bc !ec
Ctrl+c cf	code from file: @@@CODE
Ctrl+c table2	table with 2 columns
Ctrl+c table3	table with 3 columns
Ctrl+c table4	table with 4 columns
Ctrl+c exer	exercise outline
Ctrl+c slide	slide outline
Ctrl+c help	print this table

59 0.3 Title, Authors, and Date

- 60 A typical example of giving a title, a set of authors, a date, and an optional table
- of contents reads

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```
TITLE: On an Ultimate Markup Language
AUTHOR: H. P. Langtangen at Center for Biomedical Computing, Simula Research Laboratory & Dept. of IndAUTHOR: Kaare Dump Email: dump@cyb.space.com at Segfault, Cyberspace Inc.
AUTHOR: A. Dummy Author
DATE: today
TOC: on
```

The entire title must appear on a single line. The author syntax is

name Email: somename@adr.net at institution1 & institution2

- where the email is optional, the "at" keyword is required if one or more institutions are to be specified, and the & keyword separates the institutions (the keyword and works too). Each author specification must appear on a single line. When more than one author belong to the same institution, make sure that the institution is specified in an identical way for each author.
- The date can be set as any text different from today if not the current date is wanted, e.g., Feb 22, 2016.
 - The table of contents is removed by writing TOC: off.

71 0.4 Section Types

Section type	Syntax
chapter	======= Heading ====== (9 =)
section	====== Heading ====== (7 =)
subsection	==== Heading ==== (5 =)
subsubsection	=== Heading === (3 =)
paragraph	Heading (2 _)
abstract	Abstract Running text
appendix	====== Appendix: heading ====== (7 =)
appendix	==== Appendix: heading ===== (5 =)
exercise	====== Exercise: heading ====== (7 =)
exercise	==== Exercise: heading ===== (5 =)

Note that abstracts are recognized by starting with __Abstract.__ or __Summary.__
at the beginning of a line and ending with three or more = signs of the next
heading.

The Exercise: keyword kan be substituted by Problem: or Project:. A recommended convention is that an exercise is tied to the text, a problem can stand on its own, and a project is a comprehensive problem.

0.5 Inline Formatting

- Words surrounded by * are emphasized: *emphasized words* becomes emphasized words. Similarly, an underscore surrounds words that appear in boldface: _boldface_ becomes **boldface**. Colored words are also possible: the text
 - 'color{red}{two red words}'
- ₈₄ becomes two red words.

85 0.6 Lists

There are three types of lists: *bullet lists*, where each item starts with *, *enumeration lists*, where each item starts with o and gets consqutive numbers,

and *description* lists, where each item starts with – followed by a keyword and a colon.

Here is a bullet list:

* item1 * item2 * subitem1 of item2 * subitem2 of item2 * item3

Note that sublists are consistently indented by one or more blanks.. Here is an enumeration list:

o item1
o item2
may appear on
multiple lines
o subitem1 of item2
o subitem2 of item2

```
And finally a description list:
      - keyword1: followed by
        some text
        over multiple
        lines

    keyword2:
    followed by text on the next line
    keyword3: and its description may fit on one line

    The code above follows.
        Here is a bullet list:
        item1
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        item2
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    subitem1 of item2

              - subitem2 of item2
        • item3
    Note that sublists are indented. Here is an enumeration list:

    item1

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       2. item2 may appear on multiple lines
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            (a) subitem1 of item2
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            (b) subitem2 of item2
101
       3. item3
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    And finally a description list:
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    keyword1: followed by some text over multiple lines
104
    keyword2: followed by text on the next line
105
    keyword3: and its description may fit on one line
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```

0.7 Comment lines

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Lines starting with # are treated as comments in the document and translated to the proper syntax for comments in the output document. Such comment lines should not appear before LaTEX math blocks, verbatim code blocks, or lists if the formats rst and sphinx are desired.

Comment lines starting with ## are not propagated to the output document and can be used for comments that are only interest in the Doconce file.

Large portions of text can be left out using Preprocess. Just place # #ifdef EXTRA and # #endif around the text. The command line option -DEXTRA will bring the text alive again.

When using the Mako preprocessor one can also place comments in the Doconce source file that will be removed by Mako before Doconce starts processing the file.

0.8 Inline comments

lnline comments meant as messages or notes, to authors during development in particular, are enabled by the syntax

[name: running text]

where name is the name or ID of an author or reader making the comment, and running text is the comment. Here goes an example. The inline comments have simple typesetting in most formats, typically boldface name and every-thing surrounded by parenthesis, but with LaTeX output and the -DTOTONOTES option to ptex2tex or doconce ptex2tex, colorful margin or inline boxes (using the todonotes package) make it very easy to spot the comments.

Running

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doconce format html mydoc.do.txt --skip_inline_comments

removes all inline comments from the output. This feature makes it easy to turn on and off notes to authors during the development of the document.

All inline comments to readers can also be physically removed from the Doconce source by

doconce remove_inline_comments mydoc.do.txt

0.9 Verbatim/Computer Code

135 Inline verbatim code is typeset within back-ticks, as in

Some sentence with 'words in verbatim style'.

resulting in Some sentence with words in verbatim style.

Multi-line blocks of verbatim text, typically computer code, is typeset in between bc xxx! and ec! directives, which must appear on the beginning of the line. A specification xxx indicates what verbatim formatting style that is to be used. Typical values for xxx are nothing, cod for a code snippet, pro for a complete program, sys for a terminal session, dat for a data file (or output from a program), Xpro or Xcod for a program or code snipped, respectively, in programming X, where X may be py for Python, cy for Cython, sh for Bash or other Unix shells, f for Fortran, c for C, cpp for C++, m for MATLAB, pl for Perl. For output in latex one can let xxx reflect any defined verbatim environment in the ptex2tex configuration file (.ptex2tex.cfg). For sphinx output one can insert a comment

sphinx code-blocks: pycod=python cod=fortran cppcod=c++ sys=console

that maps environments (xxx) onto valid language types for Pygments (which is what sphinx applies to typeset computer code).

The xxx specifier has only effect for latex and sphinx output. All other formats use a fixed monospace font for all kinds of verbatim output.

Here is an example of computer code (see the source of this document for exact syntax):

```
from numpy import sin, cos, exp, pi
def f(x, y, z, t):
    return exp(-t)*sin(pi*x)*sin(pi*y)*cos(2*pi*z)
```

Computer code can also be copied from a file:

```
@@@CODE doconce_program.sh
@@@CODE doconce_program.sh fromto: doconce clean@^doconce split_rst
@@@CODE doconce_program.sh from-to: doconce clean@^doconce split_rst
```

The @@@CODE identifier must appear at the very beginning of the line. The first specification copies the complete file doconce_program.sh. The second specification copies from the first line matching the regular expression doconce clean up to, but not including the line matching the regular expression doconce split_rst. The third specification behaves as the second, but the line matching the first regular expression is not copied (aimed at copying text between begin-end comment pair in the file).

The copied line from file are in this example put inside bc shpro! and ec! directives, if a complete file is copied, while the directives become bc shcod! and ec! when a code snippet is copied from file. In general, for a filename extension .X, the environment becomes bc Xpro! or bc Xcod! for a complete program or snippet, respectively. The enivorments (Xcod and Xpro) are only active for latex and sphinx outout.

Important warnings:

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- A code block must come after some plain sentence (at least for successful output in reStructredText), not directly after a section/paragraph heading, table, comment, figure, or movie.
- Verbatim code blocks inside lists can be ugly typeset in some output formats. A more robust approach is to replace the list by paragraphs with headings.

0.10 LaTeX Mathematics

Doconce supports inline mathematics and blocks of mathematics, using standard LaTeX syntax. The output formats html, sphinx, latex, pdflatex', pandoc, and mwiki work with this syntax while all other formats will just display the raw LATeX code.

Inline expressions are written in the standard LaTeX way with the mathematics surrounded by dollar signs, as in Ax = b. To help increase readability in other formats than ${\tt sphinx}$, ${\tt latex}$, and ${\tt pdflatex}$, inline mathematics may have a more human readable companion expression. The syntax is like

```
$\sin(\norm{\bf u})$|$sin(||u||)$
```

That is, the LaTEX expression appears to the left of a vertical bar (pipe symbol) and the more readable expression appears to the right. Both expressions are surrounded by dollar signs.

Blocks of LaTEX mathematics are written within bt! and et! (begin/end TeX) directives starting on the beginning of a line:

```
!bt
\begin{align*}
\nabla\cdot \pmb{u} &= 0,\\
\nabla\times \pmb{u} &= 0.
\end{align*}
```

This LATEX code gets rendered as

$$\nabla \cdot \boldsymbol{u} = 0,$$
$$\nabla \times \boldsymbol{u} = 0.$$

90 Here is a single equation:

!bt
$$\[\frac{\pi t} + \beta u}\cdot\nabla\pmb{u} = 0.\]$$
!et

191 which results in

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$$\frac{\partial \boldsymbol{u}}{\partial t} + \boldsymbol{u} \cdot \nabla \boldsymbol{u} = 0.$$

Any LaTeX syntax is accepted, but if output in the sphinx, pandoc, mwiki, html, or ipynb formats is also important, one should follow these rules:

- Use only the equation environments \[, \], equation, equation*, align, and align*.
- MediaWiki (mwiki) does not support references to equations.

(Doconce performs extensions to sphinx and other formats such that labels in align environments work well.)



NOTICE

LATEX supports lots of fancy formatting, for example, multiple plots in the same figure, footnotes, margin notes, etc. Allowing other output formats, such as sphinx, makes it necessary to only utilze very standard LATEX and avoid, for instance, more than one plot per figure. However, one can use preprocessor if-tests on the format (typically if FORMAT in ("latex", "pdflatex")) to include special code for latex and pdflatex output and more straightforward typesetting for other formats. In this way, one can also allow advanced LATEX features and fine tuning of resulting PDF document.

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LaTeX Newcommands. The author can define newcommand statements in files with names newcommands*.tex. Such commands should only be used for mathematics (other LaTeX constructions are only understood by LaTeX itself). The convention is that newcommands_keep.tex contains the newcommands that are kept in the document, while those in newcommands_replace.tex will be replaced by their full LaTeX code. This conventions helps make readable documents in formats without LaTeX support. For html, sphinx, latex, pdflatex, mwiki, ipynb, and pandoc, the mathematics in newcommands is rendered nicely anyway.

210 0.11 Figures and Movies

211 Figures and movies have almost equal syntax:

FIGURE: [relative/path/to/figurefile, width=500] Here goes the caption which must be on a single line. MOVIE: [relative/path/to/moviefile, width=500] Here goes the caption which must be on a single line.

Note three important syntax details:

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- 1. A mandatory comma after the figure/movie filename,
- 2. all of the command must appear on a single line,
- there must be a blank line after the command.

The figure file can be listed without extension. Doconce will then find the version of the file with the most appropriate extension for the chosen output format. If not suitable version is found, Doconce will convert another format to the needed one.

Movie files can either be a video or a wildcard expression for a series of frames. In the latter case, a simple device in an HTML page will display the individual frame files as a movie.

Combining several image files into one can be done by the

```
doconce combine_images image1 image2 ... output_image
```

This command applies montage or PDF-based tools to combine the images to get the highest quality.

YouTube and Vimeo movies will be embedded in html and sphinx documents and otherwise be represented by a link. The syntax is

```
MOVIE: [http://www.youtube.com/watch?v=_07iUiftbKU, width=420 height=315] YouTube movie.
```

MOVIE: [http://vimeo.com/55562330, width=500 height=278] Vimeo movie.

228 The latter results in

Vimeo movie. http://vimeo.com/55562330

0.12 Tables

The table in Section 0.4 was written with this syntax:

c	c	
chapter section subsection subsubsection paragraph	' Heading' ' Heading' ' Heading' ' Heading' 'Heading'	(9 '=') (7 '=') (5 '=') (3 '=') (2 '_')

Note that

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- Each line begins and ends with a vertical bar (pipe symbol).
- Column data are separated by a vertical bar (pipe symbol).
 - There may be horizontal rules, i.e., lines with dashes for indicating the
 heading and the end of the table, and these may contain characters 'c', 'l',
 or 'r' for how to align headings or columns. The first horizontal rule may
 indicate how to align headings (center, left, right), and the horizontal rule
 after the heading line may indicate how to align the data in the columns
 (center, left, right).
 - If the horizontal rules are without alignment information there should be no vertical bar (pipe symbol) between the columns. Otherwise, such a bar indicates a vertical bar between columns in LATEX.
 - Many output formats are so primitive that heading and column alignment have no effect.

0.13 Labels and References

The notion of labels and references (as well as bibliography and index) is adopted from LaTEX with a very similar syntax. As in LaTEX, a label can be inserted anywhere, using the syntax

label{name}

with no backslash preceding the label keyword. It is common practice to choose name as some hierarchical name, say a:b:c, where a and b indicate some abbreviations for a section and/or subsection for the topic and c is some name for the particular unit that has a label.

A reference to the label name is written as

ref{name}

again with no backslash before ref.

Use labels for sections and equations only, and preced the reference by "Section" or "Chapter", or in case of an equation, surround the reference by parenthesis.

0.14 Citations and Bibliography

50 Single citations are written as

cite{name1,name2,name3}

```
cite{name}
```

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where name is a logical name of the reference (again, LATEX writers must not insert a backslash). Bibliography citations often have name on the form Author1_Author2_YYYY, Author_YYYY, or Author1_etal_YYYY, where YYYY is the year of the publication. Multiple citations at once is possible by separating the logical names by

265 comma:

The bibliography is specified by a line BIBFILE: papers.pub, where papers.pub is a publication database in the Publish format. BIBTEX.bib files can easily be combined to a Publish database (which Doconce needs to create bibliographies in other formats than LATEX).

0.15 Generalized Citations

There is a *generalized referencing* feature in Doconce that allows a reference with ref to have one formulation if the label is in the same document and another formulation if the reference is to an item in an external document. This construction makes it easy to work with many small, independent documents in parallel with a book assembly of some of the small elements. The syntax of a generalized reference is

```
ref[internal][cite][external]

# Example:
As explained in
ref[Section ref{subsec:ex}][in cite{testdoc:12}][a "section":
"testdoc.html#___sec2" in the document
"A Document for Testing Doconce": "testdoc.html" cite{testdoc:12}],
Doconce documents may include movies.
```

The output from a generalized reference is the text internal if all ref{label} references in internal are references to labels in the present document. Otherwise, if cite is non-empty and the format is latex or pdflatex one assumes that the references in internal are to external documents declared by a comment line # Externaldocuments: testdoc, mydoc (usually after the title, authors, and date). In this case the output text is internal cite and the LATEX package xr is used to handle the labels in the external documents. If none of the two situations above applies, the external text will be the output.

0.16 Index of Keywords

Doconce supports creating an index of keywords. A certain keyword is registered for the index by a syntax like (no backslash!)

index{name}

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It is recommended to place any index of this type outside running text, i.e., after (sub)section titles and in the space between paragraphs. Index specifications

placed right before paragraphs also gives the doconce source code an indication of the content in the forthcoming text. The index is only produced for the latex, pdflatex, rst, and sphinx formats.

0.17 Capabilities of The Program doconce

The doconce program can be used for a number of purposes besides transforming a .do.txt file to some format. Here is the list of capabilities:

```
Usage: doconce command [optional arguments] commands: format help sphinx_dir subst replace_from_file clean spellcheck ptex2tex expand_comm
# transform doconce file to another format
doconce format html|latex|pdflatex|rst|sphinx|plain|gwiki|mwiki|cwiki|pandoc|st|epytext file.do.txt
\mbox{\tt\#} substitute a \mbox{\tt\_phrase} by another using regular expressions
doconce subst [-s -m -x --restore] regex-pattern regex-replacement file1 file2 ...
(-s is the re.DOTALL modifier, -m is the re.MULTILINE modifier, -x is the re.VERBOSE modifier, --restore copies backup files back again)
# replace a phrase by another literally
doconce replace from-text to-text file1 file2 ...
(exact text substutition)
# doconce replace using from and to phrases from file
doconce replace_from_file file-with-from-to file1 file2
(exact text substitution, but a set of from-to relations)
# gwiki format requires substitution of figure file names by URLs
doconce gwiki_figsubst file.gwiki URL-of-fig-dir
# remove all inline comments in a doconce file
doconce remove_inline_comments file.do.txt
# create a directory for the sphinx format
doconce sphinx_dir author='John Doe' title='Long title' \
     short_title="Short title" version=0.1 \
     dirname=sphinx-rootdir theme=default logo=mylogo.png \
     do_file [do_file2 do_file3 ...]
(requires sphinx version >= 1.1)
\mbox{\tt\#} replace latex-1 (non-ascii) characters by html codes do
conce latin2html file.html
# walk through a directory tree and insert doconce files as
# docstrings in *.p.py files
doconce insertdocstr rootdir
# remove all files that the doconce format can regenerate
doconce clean
# print the header (preamble) for latex file
doconce latex_header
# print the footer for latex files
doconce latex_footer
# change encoding
doconce change_encoding utf-8 latin1 filename
# guess the encoding in a text
doconce guess_encoding filename
# transform a .bbl file to a .rst file with reST bibliography format
doconce bbl2rst file.bbl
```

```
# split a sphinx/rst file into parts
doconce format sphinx complete_file
doconce split_rst complete_file
doconce sphinx_dir_complete_file
                                                   # !split delimiters
python automake_sphinx.py
# edit URLs to local files and place them in _static
doconce sphinxfix_local_URLs file.rst
# split an html file into parts according to !split commands
doconce split_html complete_file.html
# create slides from a (doconce) html file
doconce slides_html slide_type complete_file.html
# replace bullets in lists by colored bullets
doconce html_colorbullets file1.html file2.html ...
# grab selected text from a file
                  --from[-] from-text [--to[-] to-text] somefile
doconce grab
# remove selected text from a file
doconce remove --from[-] from-text [--to[-] to-text] somefile
# run spellcheck on a set of files
doconce spellcheck [-d .mydict.txt] *.do.txt
\mbox{\tt\#} transform ptex2tex files (.p.tex) to ordinary latex file \mbox{\tt\#} and manage the code environments
doconce ptex2tex mydoc -DMINTED pycod=minted sys=Verbatim \
          dat=\begin{quote}\begin{verbatim};\end{verbatim}\end{quote}
\mbox{\tt\#} make HTML file via pandoc from Markdown (.md) file doconce md2html file
\mbox{\tt\#} make LaTeX file via pandoc from Markdown (.md) file doconce md2latex file
\mbox{\tt\#} expand short cut commands to full form in files doconce expand_commands file1 file2 ...
# combine several images into one
doconce combine_images image1 image2 ... output_file
# insert a table of exercises in a latex file myfile.p.tex
doconce latex_exercise_toc myfile
# list all labels in a document (for purposes of cleaning them up)
doconce list_labels myfile
# translate a latex document to doconce (requires usually manual fixing)
doconce latex2doconce latexfile
# check if there are problems with translating latex to doconce
doconce latex_dislikes latexfile
# typeset a doconce document with pygments (for pretty print of doconce itself)
doconce pygmentize myfile [pygments-style]
# generate a make.sh script for translating a doconce file to various formats
doconce makefile docname doconcefile [html sphinx pdflatex ...]
# fix common problems in bibtex files for publish import
doconce fix_bibtex4publish file1.bib file2.bib ...
# find differences between two files
doconce diff file1.do.txt file2.do.txt [diffprog]
(diffprog can be difflib, diff, pdiff, latexdiff, kdiff3, diffuse, ...)
```

find differences between the last two Git versions of several files doconce gitdiff file1 file2 file3 ...

96 0.18 Exercises

Doconce supports *Exercise*, *Problem*, *Project*, and *Example*. These are typeset as ordinary sections and referred to by their section labels. Exercise, problem, project, or example sections contains certain *elements*:

- a headline at the level of a subsection containing one of the words "Exercise:", "Problem:", "Project:", or "Example:", followed by a title (required)
- a label (optional)

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- a solution file (optional)
- name of file with a student solution (optional)
- main exercise text (required)
 - a short answer (optional)
- a full solution (optional)
- one or more hints (optional)
- one or more subexercises (subproblems, subprojects), which can also contain a text, a short answer, a full solution, name student file to be handed in, and one or more hints (optional)
- A typical sketch of a a problem without subexercises goes as follows:

```
===== Problem: Derive the Formula for the Area of an Ellipse ===== label{problem:ellipsearea1} file=ellipse_area.pdf solution=ellipse_area1_sol.pdf

Derive an expression for the area of an ellipse by integrating the area under a curve that defines half of the allipse. Show each step in the mathematical derivation.

!bhint
Wikipedia has the formula for the curve.
!ehint
```

!bhint "Wolframalpha": "http://wolframalpha.com" can perhaps compute the integral.

If the exercise type (Exercise, Problem, Project, or Example) is enclosed in braces, the type is left out of the title in the output. For example, the if the title line above reads

===== {Problem}: Derive the Formula for the Area of an Ellipse =====

the title becomes just "Derive the ...".

An exercise with subproblems, answers and full solutions has this setup-up:

```
==== Exercise: Determine the Distance to the Moon =====
label{exer:moondist}
Intro to this exercise. Questions are in subexercises below.
Subexercises are numbered a), b), etc.
file=subexer_a.pdf
Short answer to subexercise a).
!eans
!bhint First hint to subexercise a).
!ehint
!bhint
Second hint to subexercise a).
!ehint
!esubex
!bsubex
Here goes the text for subexercise b).
file=subexer_b.pdf
!bhint
A hint for this subexercise.
!ehint
!bsol
Here goes the solution of this subexercise. !esol
!esubex
!bremarks
At the very end of the exercise it may be appropriate to summarize and give some perspectives. The text inside the !bremarks-!eremarks directives is always typeset at the end of the exercise.
!eremarks
!bsol
Here goes a full solution of the whole exercise.
```

By default, answers, solutions, and hints are typeset as paragraphs. The command-line arguments --without_answers and --without_solutions turn off output of answers and solutions, respectively, except for examples.

0.19 Environments

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Doconce environments start with benvirname! and end with eenvirname!, where environme is the name of the environment. Here is a listing of the environments:

- c: computer code (or verbatim text)
- t: math blocks with LaT⊨X syntax
- subex: sub-exercise
 - ans: short answer to exercise or sub-exercise

- sol: full solution to exercise or sub-exercise
- quote: indented text

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- notice, summary, warning, question, hint: boxes with specialy typesetting (or symbols)
 - pop: text to gradually pop up in slide presentations
 - slidecell: indication of cells in a grid layout for elements on a slide

0.20 Preprocessing

Doconce documents may utilize a preprocessor, either preprocess and/or mako. The former is a C-style preprocessor that allows if-tests and including other files (but not macros with arguments). The mako preprocessor is much more advanced - it is actually a full programming language, very similar to Python.

The command doconce format first runs preprocess and then make. Here is a typical example on utilizing preprocess to include another document, "comment out" a large portion of text, and to write format-specific constructions:

```
# #include "myotherdoc.do.txt"
# #if FORMAT in ("latex", "pdflatex")
\begin{table}
\caption{Some words... label{mytab}}
\begin{tabular}{lrr}
\hline\noalign{\smallskip}
\mbox{$\mathbb{K}$ wulticolumn{1}{c}_{time} & \mbox{$\mathbb{K}$ multicolumn{1}{c}_{velocity} & \mbox{$\mathbb{K}$ multicolumn{1}{c}_{acceleration} \\ }
\hline
0.0
               & 1.4186
2.0
               & 1.376512
\hline
\end{tabular}
\end{table}
# #else
   |time | velocity | acceleration
    --1--
          ----r---
                      -----r----
                       | -5.01
    0.0
            1.4186
            1.376512
                       11.919
14.717624
    2.0
    4.0
            1.1E+1
  #endif
# #ifdef EXTRA_MATERIAL
....large portions of text...
```

With the make preprocessor the if-else tests have slightly different syntax. An example document contains some illustrations on how to utilize make (clone the GitHub project and examine the Doconce source and the doc/src/make.sh script).

0.21 Resources

• Excellent "Sphinx Tutorial" by C. Reller: "http://people.ee.ethz.ch/ creller/web/tricks/reST.html"