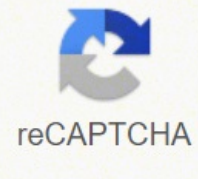




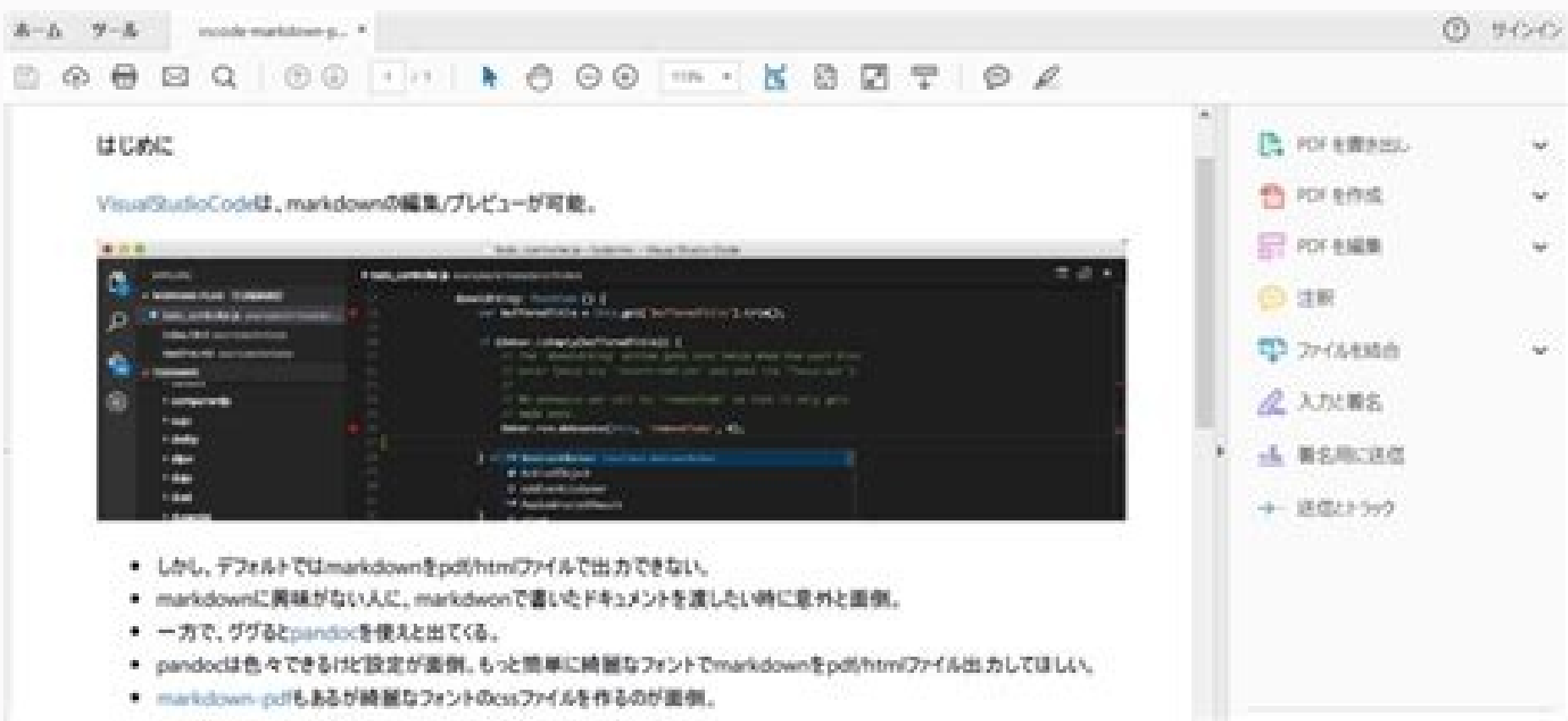
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Pandoc markdown to pdf font sizes



インストール

Ubuntu 13.04 の場合は apt-get で

- ▶ インストールのためのコマンド
\$ apt-get install pandoc texlive-xetex latex-beamer
- ▶ ぼくの Ubuntu 13.04
環境でこれで動作したけど、余計なものがあるかも…



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PROC. OF THE 18th PYTHON IN SCIENCE CONF. (ICPIS 2018)

Codebraid: Live Code in Pandoc Markdown

Geoffrey M. Poore^{1*}

Abstract—Codebraid executes code blocks and inline code in Pandoc Markdown documents as part of the document build process. Code can be executed with a built-in system or Jupyter kernels. Either way, a single document can involve multiple programming languages, as well as multiple independent sessions or processes per language. Because Codebraid only uses standard Pandoc Markdown syntax, Pandoc handles all Markdown parsing and format conversions. In the final output document produced by Pandoc, a code chunk can be replaced by a display of any combination of its original Markdown source, its code, the stdout or stderr resulting from execution, or rich output in the case of Jupyter kernels. There is also support for programmatically copying code or output to other parts of a document.

Index Terms—reproducibility, dynamic report generation, literate programming, Python, Pandoc, Project Jupyter

Introduction
Scientific and technical documents are increasingly written with software that allows a mixture of text and executable code, such as the Jupyter Notebook [KRKP¹⁶], knitr [VNS15], and Org-mode Babel [SD11], [SDDD12]. Writing with such tools can enhance reproducibility, simplify code documentation, and aid in automating reports.

This paper introduces Codebraid, which allows executable code within Pandoc Markdown documents [IG19], [IM19]. Codebraid is developed at <https://github.com/gpoore/codebraid> and is available from the Python Package Index (PyPI). It allows Pandoc code blocks like the one below to be executed during the document build process. In this case, the “`ob-run`” tells Codebraid to run the code and include the output.

```
%%python -ob-run
print("Running code within a Markdown!")
```

The final document contains the code’s output, interpreted as if it had been entered directly in the original Markdown source:

Running code within *Markdown!*

A document using Codebraid can be converted from Markdown into any of the many formats supported by Pandoc, such as HTML, Microsoft Word, LaTeX, and PDF. Codebraid delegates all Markdown parsing and format conversions to Pandoc, so it does not introduce any special restrictions on what is possible with a Pandoc Markdown document. This close integration with Pandoc also means that Codebraid can be extended in the future to work with additional document formats beyond Markdown.

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Codebraid includes a built-in code execution system. It can also use Jupyter kernels [KRKP¹⁶] to execute code. The first code block that is executed with a given language can specify a kernel. In the example below, the “`ob-run`” tells Codebraid to run the code and provide a “notebook” display that shows both code and output, while “`jupyter_kernel`” specifies a kernel.

```
%%python -ob-run jupyter_kernel=python3
from sympy import *
init_printing()
x = Symbol('x')
integral = Integral(E**(x**2), (x, -oo, oo))
display(integral)
integral.doit()
```

Because a Jupyter kernel was used to run the code, the result includes rich output in the form of rendered LaTeX math, just as it would in a Jupyter notebook:

```
from sympy import *
init_printing()
x = Symbol('x')
integral = Integral(E**(x**2), (x, -oo, oo))
display(integral)
integral.doit()
```

$$\int_{-\infty}^{\infty} e^{-x^2} dx$$

The next section provides an example of the document build process with Codebraid. This is followed by an overview of Codebraid features and capabilities. Finally, the Comparison considers Codebraid in the context of knitr, Perce, Org-mode Babel, and the Jupyter Notebook.

Building a simple Codebraid document
A simple Pandoc Markdown document that runs code with Codebraid is shown below.

```
%%python -ob-run name=past11
val1 = "Hello From +python1.4"
val2 = "More is better past11 52"*(2**819)
```

```
%%python -ob-run name=past12
print(val1)
print(val2)
```

If this were a normal Pandoc document, converting it into a format such as reStructuredText could be accomplished by running `pandoc --from markdown --to rst file.md`



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Second, Newer Company
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Aug 10, 2020

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Pandoc markdown font. Pandoc markdown font size. Pandoc font size.

Second paragraph of the definition. Column alignments are determined by the position of the header text relative to the dashed line below it: Warming if the dashed line is flush with the header text on the right side but extends beyond it on the left, the column is right-aligned. It is possible to create a bibliography with all the citations, whether or not they appear in the document, by using a wildcard: --- nocite: |@... Opening fences are distinguished because they must have attributes: ::: Warning :::: This is a warning. Anyone using pandoc on untrusted user input should use this option. Exceptions: For odt output, customize the default.opendocument template. The file will be searched for first in the working directory, and then in the metadata subdirectory of the user data directory (see --data-dir). So, in the tables above, the columns would be right, left, center, and right aligned, respectively. 33] says blah. Parses multimarkdown style key-value attributes on link and image references. ::: ::::::::::: The align attributes on columns and column can be used with the values top, top-baseline, center and bottom to vertically align the columns. If the value is a map, the string true will be rendered. The fenced Div should be separated by blank lines from preceding and following blocks. And with the extension: \$ pandoc test/docx/custom-style-reference.docx -t docx+styles -t markdown ::: (custom-style="First Paragraph") This is some text. You can control the PDF style using variables, depending on the intermediate format used: see variables for LaTeX, variables for ConTeXt, variables for wkhtmltopdf, variables for ms. Multiline tables allow header and table rows to span multiple lines of text (but cells that span multiple columns or rows of the table are not supported). * and my second. If no input file is specified (so that input comes from stdin), or if the input files' extensions are unknown, the input format will be assumed to be Markdown. As with fenced code blocks, one can use either attributes in curly braces or a single unbraced word, which will be treated as a class name. Normal citations in footnotes (such as @foo, p. p., --preserve-tabs Preserve tabs instead of converting them to spaces. Inline LaTeX is ignored in output formats other than Markdown, LaTeX, Emacs Org mode, and ConTeXt. Inline spans and fenced code blocks with a special kind of attribute will be parsed as raw content with the designated format. If no input files are specified, input is read from stdin. 2*10^ is 1024. Final newlines are omitted from included partials, or See the [Introduction]. (Conversion happens only if language begins with en or is left empty.) Protect words that should not be converted to title case using this syntax: Spin wave dispersion on the nm scale For a formally published conference paper, use the biblax entry type inproceedings (which will be mapped to CSL paper-conference). Text.Pandoc.JSON exports toJSONFilter to facilitate writing filters in Haskell. The paths should be separated by : on Linux, UNIX, and macOS systems, and by ; on Windows. This option is set automatically for pdf, epub, epub3, fb2, docx, and odt output. fontcolor sets the CSS color property on the html element. See the section Defaults files for more information on the file format. In Markdown output, code blocks with classes haskell and literate will be rendered using bird tracks, and block quotations will be indented one space, so they will not be treated as Haskell code. The nested list must be indented to line up with the first non-space character after the list marker of the containing list item. While conversions from pandoc's Markdown to all formats aspire to be perfect, conversions from formats more expressive than pandoc's Markdown can be expected to be lossy. Pandoc attempts to preserve the structural elements of a document, but not formatting details such as margin size. For the most part this should give the same output as raw_html, but it makes it easier to write pandoc filters to manipulate groups of inlines. 33]. So, for example, backtick code blocks does not appear as an extension, since it is enabled by default and cannot be disabled. (Using the --sandbox option can protect against this threat, but will also prevent including images in these formats.) If your application uses pandoc as a Haskell library (rather than shelling out to the executable), it is possible to use it in a mode that fully isolates pandoc from your file system, by running the pandoc operations in the PandocPure monad. --shift-heading-level-by=1 may be a good choice for converting Markdown documents that use level-1 headings for sections to HTML, since pandoc uses a level-1 heading to render the document title. Normal citations should be included in square brackets, with semicolons separating distinct items: Blah blah [@doe99; @smith2000; @smith2004]. Pandoc understands an extended and slightly revised version of John Gruber's Markdown syntax. Backslash escapes do not work in verbatim contexts. The default behavior is to determine the best division type via heuristics; unless other conditions apply, section is chosen. Notes are not yet supported for other slide formats, but the notes will not appear on the slides themselves. The attributes may optionally be followed by another string of consecutive colons. --listings Use the listings package for LaTeX code blocks. Even if raw_html is disabled, users can include dangerous content in URLs and attributes. IF FILE is not found relative to the working directory, it will be sought in the resource path (see --resource-path) and finally in the csl subdirectory of the pandoc user data directory. For more information, see the section on Citations. right n "leftborder" "rightborder": Renders a textual value in a block of width n, aligned to the right, and has no effect on other values. Changes the algorithm

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