Writing Markdown in LaTeX documents

Including an external `.md` file, distributed with the `markdown` package:

1 This is an H1

1.1 This is an H2

1.1.1 This is an H3

This is an H4

This is an H5
This is an H6
This is a text paragraph containing an ellipsis . . . and followed by a horizontal rule.

This is inline `code`. This is a link[1]. *This is an* emphasized *span of text.*
***This is a* strongly emphasized *span of text*.**
This is a bullet list:

- The first item of a bullet list

  that spans several paragraphs,

- the second item of a bullet list,

- the third item of a bullet list.

This is a compact bullet list:
- The first item of a bullet list,
- the second item of a bullet list,
- the third item of a bullet list.
This is an ordered list:

5. The first item of an ordered list

   that spans several paragraphs,

6. the second item of an ordered list,

7. the third item of an ordered list.

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[1]Google: `<http://google.cz>`

This is an ordered list using hash enumerators:

1. The first item of an ordered list

   that spans several paragraphs,

2. the second item of an ordered list,

3. the third item of an ordered list.

This is a compact ordered list:
5. The first item of an ordered list,
6. the second item of an ordered list,
7. the third item of an ordered list.

This is a compact ordered list using hash enumerators:
1. The first item of an ordered list,
2. the second item of an ordered list,
3. the third item of an ordered list.

This is a definition list:

Term 1 Definition 1

Term 2 Definition 2

    Some code, part of Definition 2

Third paragraph of Definition 2.

This is a compact definition list:
Term 1 Definition 1
Term 2 Definition 2

This is a block quote:

> This is the first level of quoting.
>
> > This is nested blockquote.
>
> Back to the first level.

Here is a footnote reference[2] and another[3].

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[2] Here is the footnote.

[3] Here's one with multiple blocks.

Subsequent paragraphs are indented to show that they belong to the previous footnote.

```
Some code
```

The whole paragraph can be indented, or just the first line. In this way, multi-paragraph footnotes work like multi-paragraph list items.

(Markdown example text adapted from `http://www.unexpected-vortices.com/sw/rippledoc/quick-markdown-example.html`)

2   An h1 header

Paragraphs are separated by a blank line.

2nd paragraph. *Italic*, **bold**, and `monospace`. Itemized lists look like:

- this one
- that one
- the other one

> Block quotes are written like so.
> They can span multiple paragraphs, if you like.

Use 3 dashes for an em-dash. Use 2 dashes for ranges (ex., "it's all in chapters 12–14"). Three dots ... will be converted to an ellipsis (only if you enable the `smartEllipses` option).

2.1   An h2 header

Here's a numbered list (use `hashEnumerators` option if you want to use hashes):

1. first item
2. second item
3. third item

Here's a code sample:

```
# Let me re-iterate ...
for i in 1 .. 10 { do-something(i) }
```

As you probably guessed, indented 4 spaces.

2.1.1   An h3 header

Now a nested list:

1. First, get these ingredients:

   - carrots
   - celery
   - lentils

2. Boil some water.

3. Dump everything in the pot and follow this algorithm:

   ```
   find wooden spoon
   uncover pot
   stir
   ```
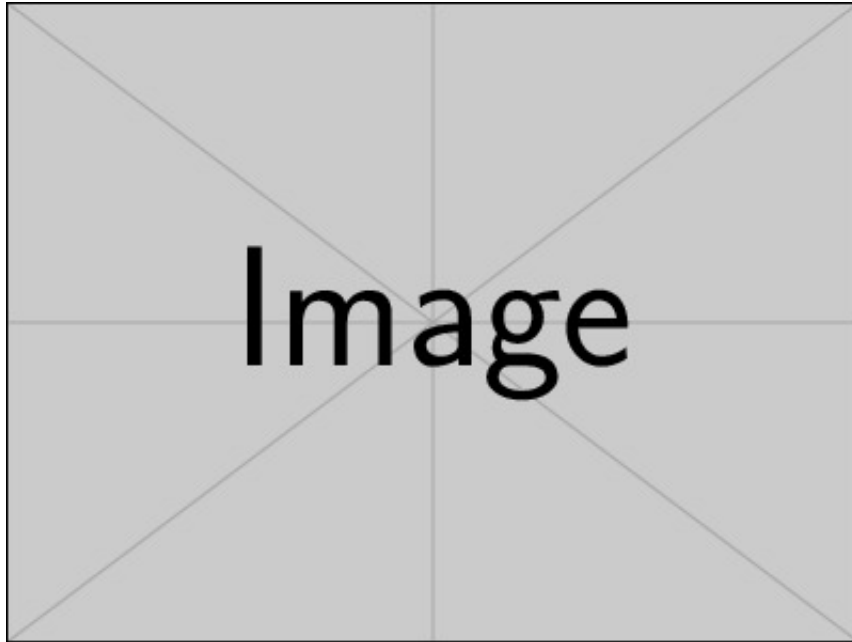
Figure 1: An exemplary image

```
cover pot
balance wooden spoon precariously on pot handle
wait 10 minutes
goto first step (or shut off burner when done)
```

Do not bump wooden spoon or it will fall.

Here's a link to a website[4]. Here's a footnote[5] which you can get with `footnotes` option.

A horizontal rule follows.

Here's a definition list (with `definitionLists` option):

apples Good for making applesauce.

oranges Citrus!

tomatoes There's no "e" in tomatoe.

and images can be specified like so, and cross-referencing works if you add a `fig:` to the label: **Figure 1**

If you enable the `hybrid` option, You can mix LaTeX code in Markdown! Inline math equations go in like so: $\omega = d\phi/dt$. Displaymath too:

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[4] `<http://foo.bar>`

[5] Footnote text goes here.

$$I = \int \rho R^2 dV \tag{1}$$

And note that you can backslash-escape any punctuation characters which you wish to be displayed literally, ex.: 'foo', *bar*, etc.