



THE UNIVERSITY OF  
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AUSTRALIA**

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# Markdown

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## Lecture 17

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# Markdown – simple, portable text formatting

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- One of the earliest things Unix was used for was typesetting text
  - *Roff (runoff) mid 1960s. Pre Unix*
  - *Nroff (new roff), later Troff (mid 1970s, Unix)*
    - Basis of the man pages
  - *TeX, LaTeX (mid 1980s)*
    - Large texts (theses); Maths
  - *HyperText Markup Language (HTML) (1993)*
    - Emphasis on screen rather than page
    - Idea of page markup
  - *Markdown (2004)*
    - Portability. Aimed at blogging, doc, readme files

# Core idea – visible tags

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- Early type setting systems users add tags, italics, heading, etc,
  - *.i (italics), .H 1 (first level heading) - Troff*
  - *<i>, <h1> - HTML*
- MS-Word made the tags invisible
- Markdown goes back to the explicit tag idea, but makes the tags more intuitive.
  - *Subset of most useful features, cf LaTeX*

# Some tags – headings, styles

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Markdown	HTML	Effect
Heading =====	<h1>Heading</h1>	Level 1 heading
# Heading	<h1>Heading</h1>	Level 1 heading
Sub-heading -----	<h2>Sub-heading</h2>	Level 2 heading
## Sub-heading	<h2>Sub-heading</h2>	Level 2 heading
Extra blank line	<p>	New paragraph
(2 spaces at end of line)	 	Line break
<i>_italic_</i>	<i>italic</i>	Italic font style
<b>**bold**</b>	<b>bold</b>	Bold font style
`monospace`	<code>monospace</code>	Fixed font

# Lists

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Markdown	HTML	Effect
1. Socks 2. Then shoes	<pre>&lt;ol&gt; &lt;li&gt; Socks &lt;li&gt; Then shoes &lt;/ol&gt;</pre>	Numbered List
* Horse * Cart	<pre>&lt;ul&gt; &lt;li&gt; Horse &lt;li&gt; Cart &lt;/ul&gt;</pre>	Bullet List

- Lists can be inside other lists, e.g. bullet within numbered
- Numbering not automatic
  - Arguably no bad thing

# More markdowns

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Markdown	HTML	Effect
> Prepend greater than > before each block-quote line	<blockquote> Prepend &gt;<p> before each block-quot line </blockquote>	Indented block quote
[Link to UWA](http://uwa.edu.au)	<a href="http://uwa.edu.au">Link to UWA</a>	Link to another page
![Image](https://study.com/cim ages/multimages/16/discount- 2345221_960_720.png, “markdown”)	<img src=https://study.com/cimages/m ultimages/16/discount- 2345221_960_720.png, alt=“markdown”>	Import image from URL

Many features absent cf LaTeX, HTML, e.g. tables

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# Where used

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- Reddit uses Markdown to deal with submitted redds -> HTML
- R studio uses Markdown
- GitHub (it's own version), Slack, Trello, Discord

# Dillinger cloud Markdown processor

DOCUMENT NAME: Untitled Document.md | READING TIME: 3 MIN READ | WORDS: 549 | CHARACTERS: 3734

**MARKDOWN**

```
1 - # Dillinger
2 - ## _The Last Markdown Editor, Ever_
3
4 ![N | Solid](https://cloudup.com/dTxpPi9lDf.thumb.png)(https://nodesource.com/products/nsolid)
5
6 ![Build Status](https://travis-ci.org/joemccann/dillinger.svg?branch=master)(https://travis-ci.org/joemccann/dillinger)
7
8 Dillinger is a cloud-enabled, mobile-ready,
9 offline-storage compatible,
10 AngularJS-powered HTML5 Markdown editor.
11 - Type some Markdown on the left
12 - See HTML in the right
13 - ✨Magic ✨
14
15 ## Features
16
17 - Import a HTML file and watch it magically
18 convert to Markdown
19 - Drag and drop images (requires your Dropbox
20 account be linked)
```

**PREVIEW**

## Dillinger

### *The Last Markdown Editor, Ever*

POWERED BY Solid

build passing

Dillinger is a cloud-enabled, mobile-ready, offline-storage compatible, AngularJS-powered HTML5 Markdown editor.

- Type some Markdown on the left
- See HTML in the right
- ✨Magic ✨

### Features

- Import a HTML file and watch it magically convert to Markdown
- Drag and drop images (requires your Dropbox account be linked)
- Import and save files from GitHub, Dropbox, Google Drive and One Drive
- Drag and drop markdown and HTML files into Dillinger
- Export documents as Markdown, HTML and PDF

Markdown is a lightweight markup language based on the formatting conventions

Type text,  
export MD,  
HTML, PDF

Can also input  
text from file

<https://dillinger.io/>



# Pandoc converts doc formats

Pandoc a universal document converter

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## About pandoc

If you need to convert files from one markup format into another, pandoc is your swiss-army knife. Pandoc can convert between the following formats:

(← = conversion from; → = conversion to; ↔ = conversion from and to)

### Lightweight markup formats

- ↔ [Markdown](#) (including [CommonMark](#) and [GitHub-flavored Markdown](#))
- ↔ [reStructuredText](#)
- [AsciiDoc](#)
- ↔ Emacs [Org-Mode](#)
- ↔ Emacs [Muse](#)
- ↔ [Textile](#)
- [Markua](#)
- ← [txt2tags](#)

### HTML formats

- ↔ (X)HTML 4
- ↔ HTML5

### Ebooks

### Word processor formats

- ↔ Microsoft Word [docx](#)
- ↔ Rich Text Format [RTF](#)
- ↔ OpenOffice/LibreOffice [ODT](#)

### Interactive notebook formats

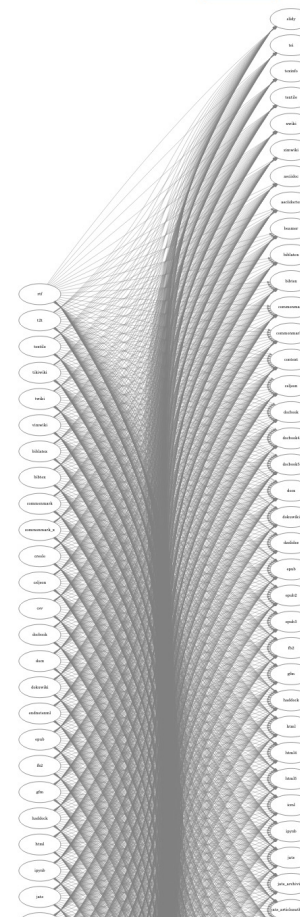
- ↔ Jupyter notebook ([ipynb](#))

### Page layout formats

- [InDesign ICML](#)

### Wiki markup formats

- ↔ [MediaWiki markup](#)
- ↔ [DokuWiki markup](#)
- ← [TikiWiki markup](#)
- ← [TWiki markup](#)
- ← [Vimwiki markup](#)



The page keeps on going below what is shown!

<https://pandoc.org/>