

# Web Design & Development Summer Academy 2018

## Getting Started with Markdown



# Wi-Fi



- **Wi-Fi Network:** Clark\_Student
- If prompted for a code enter “blue sky”
- **Username:** g\_webdesign
- **Password:** Summer2018

# Schedule of Saturday Events

Sign Up Page: <https://goo.gl/HCKrrj>

July 14, 2018 – **Getting Started with Markdown**

July 28, 2018 – **Getting Started with Sass**

August 11, 2018 – **Getting Started with Node.js**

August 18, 2018 – **Getting Started with Git and GitHub**

August 25, 2018 – **Getting Started with Bootstrap**

September 8, 2018 – **Getting Started with React.js**

September 15, 2018 – **Automating Things with Python**

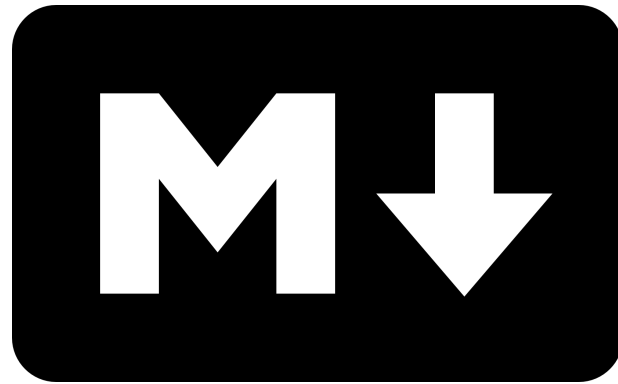
# Let's Play a Game...

1. From the app store download “Kahoot! Play & Create”
2. If you are using a PC point your web browser to:  
  
**<http://kahoot.it>**
3. Type in the **PIN** that Bruce will show on the screen
4. Get ready to rumble!!!

**Fill in  
the blank:**

---

**Writing structured content for  
the web is \_\_\_\_\_.**



# Markdown

What is it?

# Markdown

A plain text formatting syntax for writers. It allows you to quickly write structured content for the web, and have it seamlessly converted to clean, structured HTML.

# Markdown

Markdown is intended to be as easy-to-read and easy-to-write as is feasible.



# Markdown

*“Markdown is not a replacement for HTML, or even close to it. Its syntax is very small, corresponding only to a very small subset of HTML tags. The idea is not to create a syntax that makes it easier to insert HTML tags. In my opinion, HTML tags are already easy to insert. The idea for Markdown is to make it easy to read, write, and edit prose. HTML is a publishing format; Markdown is a writing format. Thus, Markdown’s formatting syntax only addresses issues that can be conveyed in plain text.”*

John Gruber - Inventor of Markdown

# For example...

The *quick* brown fox, jumped **over** the lazy dog.

# In HTML

```
<p>The <em>quick</em> brown fox, <strong>jumped</strong> over the lazy <a href="https://en.wikipedia.org/wiki/Dog" title="WikiPeida Page about dogs">dog</a>.</p>
```

# In Markdown

```
The *quick* brown fox, jumped **over** the  
lazy [dog](https://en.wikipedia.org/wiki/  
Dog).
```

# Side by Side

```
<p>The <em>quick</em> brown fox, <strong>jumped</strong> over the lazy <a href="https://en.wikipedia.org/wiki/Dog" title="WikiPeida Page about dogs">dog</a>.</p>
```

```
The *quick* brown fox, jumped **over** the lazy [dog](https://en.wikipedia.org/wiki/Dog).
```

# Headings

# Heading 1

## Heading 2

### Heading 3

#### Heading 4

##### Heading 5

##### Heading 6

# Headings Example

## Markdown

# Bruce Elgort  
## Clark College

## HTML

<h1>Bruce Elgort</h1>  
<h2>Clark College</h2>

# Text

This is a paragraph of text. It really is. It contains multiple sentences and is meant to be just some random text. Really, it's just some simple text. Hit return to create a new paragraph.

*\*This text is italicized\**

**\*\*This text will be bolded\*\***

***\*\*\*This text is italicized and bolded\*\*\****



# Text Examples

## Markdown

*\*I like pizza\**

**\*\*I really like NY style pizza\*\***

**\*\*\*West coast pizza is also known as a casserole\*\*\***

## HTML

`<em>I like pizza</em>`

`<strong>I really like NY style pizza</strong>`

`<strong><em>I really like NY style pizza</em></strong>`

# Text Examples Continued

## Markdown

This is a paragraph of text. It really is. It contains multiple sentences and is meant to be just some random text. Really, it's just some simple text.

## HTML

<p>This is a paragraph of text. It really is. It contains multiple sentences and is meant to be just some random text. Really, it's just some simple text.</p>

# Links

[clickable text](URL to resource)

[clickable text](URL to resource "title attribute")

# Link Examples

## Markdown

[Bruce's Blog](http://bruceelgort.com)

[Bruce's Blog](http://bruceelgort.com "Bruce Elgort's Blog")

## HTML

```
<a href="http://bruceelgort.com">Bruce's Blog</a>
```

```
<a href="http://bruceelgort.com" title="Bruce Elgort's  
Blog">Bruce's Blog</a>
```

# Images

Identical to Links with the exception of an ! before the [ ]'s

![alt attribute](URL to image)

![alt attribute](URL to image "title attribute")

# Image Examples

## Markdown

![Headshot of Bruce Elgort](https://pbs.twimg.com/profile\_images/1012000737289629698/Jx1uL9qf\_400x400.jpg)

![Bruce's Blog](https://pbs.twimg.com/profile\_images/1012000737289629698/Jx1uL9qf\_400x400.jpg "A headshot of Bruce Elgort")

## HTML

```
</p>
```

```
<p></p>
```

# Your Turn!

Your Name (heading 1)

Your Nickname (heading 2)

A link to an image (does not have to be real)

A short paragraph about yourself. Include some italicized text. Also, include some bolded text.

A second short paragraph about yourself. Include a few words that are both italicized and bolded.

Two links to your favorite websites

# Blockquotes

- > Text you want to include in the blockquote
- > Another paragraph of text that will appear in a blockquote



# Blockquote Example

## Markdown

> Lorem ipsum dolor amet tilde before they sold out portland squid waistcoat letterpress chicharrones franzen authentic hexagon pug sustainable bespoke iPhone. Offal hell of single-origin coffee tofu, before they sold out +1 tumeric waistcoat gentrify health goth fixie kale chips. Skateboard gastropub taxidermy scenester letterpress etsy. Brooklyn church-key franzen you probably haven't heard of them butcher literally, waistcoat marfa subway tile fashion axe. Keffiyeh sriracha 8-bit leggings hella.

## HTML

```
<blockquote>  
<p>Lorem ipsum dolor amet tilde before they sold out portland squid waistcoat  
letterpress chicharrones franzen authentic hexagon pug sustainable bespoke iPhone.  
Offal hell of single-origin coffee tofu, before they sold out +1 tumeric waistcoat  
gentrify health goth fixie kale chips. Skateboard gastropub taxidermy scenester  
letterpress etsy. Brooklyn church-key franzen you probably haven't heard of them  
butcher literally, waistcoat marfa subway tile fashion axe. Keffiyeh sriracha 8-bit  
leggings hella.</p>  
</blockquote>
```

# Unordered Lists

## Using \*'s

- \* List Item 1
- \* List Item 2
- \* List Item 3
- \* List Item 4

## Using +'s

- + List Item 1
- + List Item 2
- + List Item 3
- + List Item 4

## Using -'s

- List Item 1
- List Item 2
- List Item 3
- List Item 4

# Unordered List Example

## Markdown

- \* Hamburger
- \* Cheeseburger
- \* Veggie Burger

## HTML

```
<ul>  
  <li>Hamburger</li>  
  <li>Cheeseburger</li>  
  <li>Veggie Burger</li>  
</ul>
```

# Ordered Lists

## Using \*'s

1. List Item 1
2. List Item 2
3. List Item 3
4. List Item 4

# Ordered List Example

## Markdown

1. Hamburger
2. Cheeseburger
3. Veggie Burger

## HTML

```
<ol>  
  <li>Hamburger</li>  
  <li>Cheeseburger</li>  
  <li>Veggie Burger</li>  
</ol>
```

# Nested Lists

**Use 4 spaces for inner lists**

1. List Item 1

- \* Item a

- \* Item b

- \* Item c

2. List Item 2

3. List Item 3

4. List Item 4

# Nested List Example

```
<ol>
  <li><p>List Item 1</p>
    <ul>
      <li>Item a</li>
      <li>Item b</li>
      <li>Item c</li>
    </ul>
  </li>
  <li><p>List Item 2</p>
</li>
  <li><p>List Item 3</p>
</li>
  <li><p>List Item 4</p>
</li>
</ol>
```

# Code

Let's say you wanted to do something like this:

The `<body>` tag is one of the required HTML tags for a web page.

Or something like this:

Here is the Python code that you will need to type into IDLE. Be sure to create a new file and not type it in at the Python `>>>` prompt.

```
# Some silly Python code

pizza = "NYC Style"

for i in range(10):
    print(pizza)
```

Were you able to get it to work correctly?



# Inline Code

For inline code, enclose the text in back ticks. Typically in the upper left hand corner of your keyboard.

``your code``

The `<body>` tag is one of the required tags for an HTML page.

# Blocks of Code

Use three back ticks and then the name of the language immediately following them. Syntax highlighting will then be applied.

```
```python
```

```
```javascript
```

```
```java
```

# Block of Code Example

## Markdown

```
```javascript  
let a = 42;  
let b = 22;  
console.log('The sum of a + b = ', a + b);  
```
```

## What it will look like when converted to HTML

```
let a = 42;  
let b = 22;  
console.log('The sum of a + b = ', a + b);
```

# Your Turn!

**Create this in Markdown:**

1. Led Zeppelin
  - John Bonham
2. Alice Cooper
  - Glen Sobel
3. Foghat
  - Roger Earl

# Your Turn!

## Create this in Markdown:

To create headings in HTML you can use the `<h1>`, `<h2>`, `<h3>`, `<h4>`, `<h5>` and `<h6>` tags.

# Tables

**Tables are part of “GitHub Flavored Markdown” and are not part of core Markdown.**

**Let’s say you want to create a table that looks like this:**


| Name   | Age | Gender   |
|--------|-----|----------|
| Bruce  | 55  | Male     |
| Gayle  | 57  | Female   |
| Tucker | 2.5 | Male Dog |

# Table Markup

| Name   | Age | Gender   |
|--------|-----|----------|
| ---    | --- | ---      |
| Bruce  | 55  | Male     |
| Gayle  | 57  | Female   |
| Tucker | 2.5 | Male Dog |

# Table Markup

You can add colons to the Markdown to right and left align them



```
Name	Age	Gender
Bruce | 55 | Male
Gayle | 57 | Female
Tucker | 2.5 | Male Dog
```

| Name   | Age | Gender   |
|--------|-----|----------|
| Bruce  | 55  | Male     |
| Gayle  | 57  | Female   |
| Tucker | 2.5 | Male Dog |



# Markdown Apps

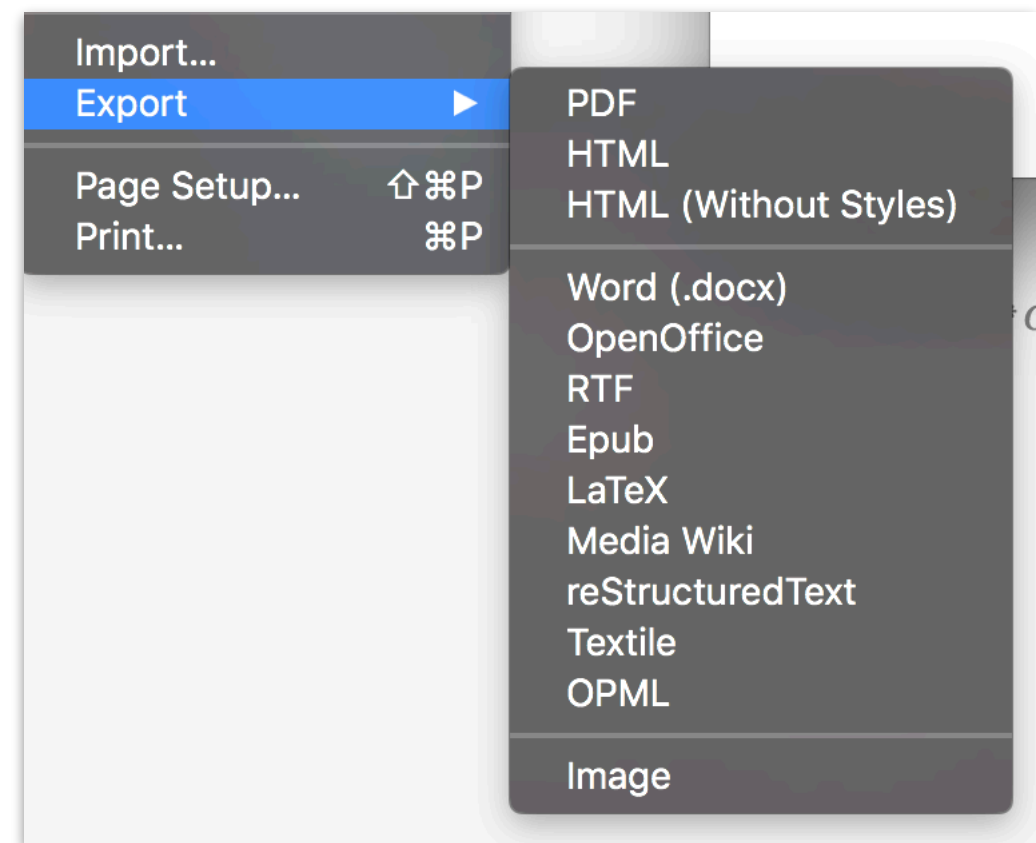
- There are free apps for both Windows and Mac
- There are paid for apps for both Windows and Mac
- There are free online browser based services
- Microsoft Word Add-Ons
- Text editors including Sublime Text, Visual Studio Code, Atom, Notepad++
- Programming languages including Python, PHP and Java have libraries to handle Markdown

# Typora - Free

<https://typora.io/>

Available for OS X, Windows and Linux

Can export Markdown to

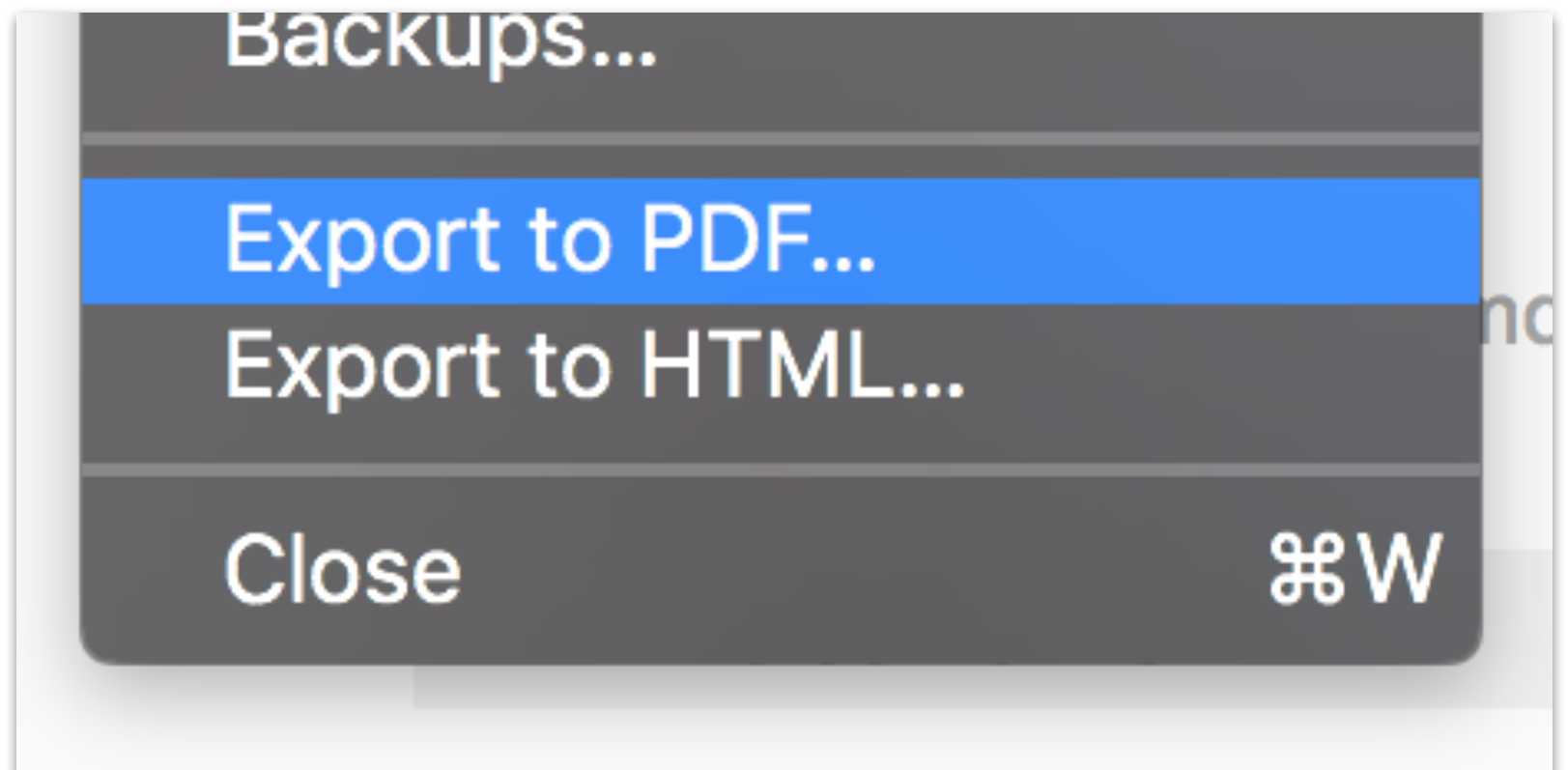


# Caret - Free

<https://caret.io/>

Available for OS X, Windows and Linux

Can export Markdown to



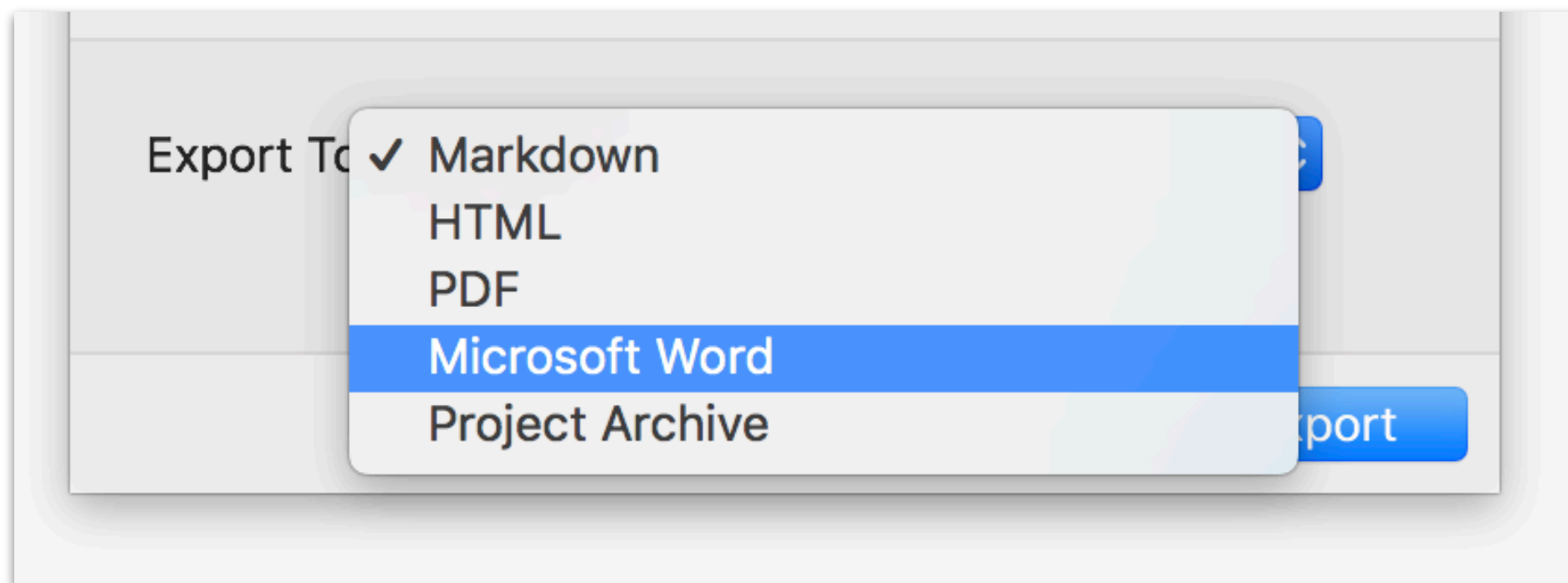
# iAWriter - \$29.99



<https://ia.net/writer>

Available for OS X, Windows, iOS and Android

Can export Markdown to

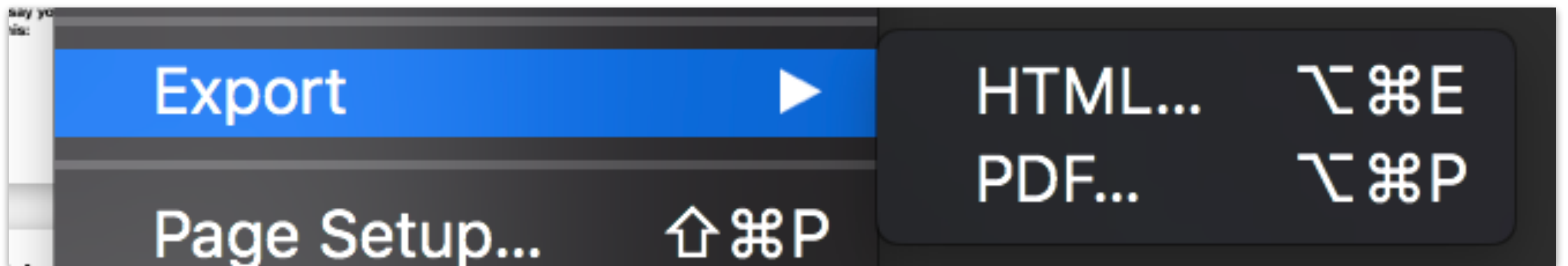


# MacDown - Free

<https://macdown.uranusjr.com/>

Available for OS X

Can export Markdown to



# Online Markdown Services

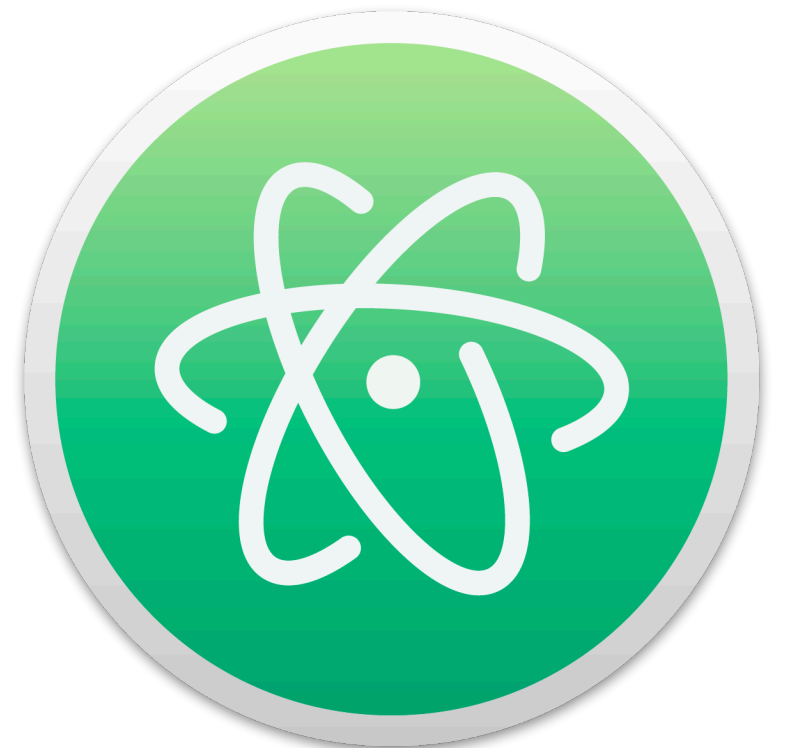
- <https://dillinger.io/>
- <https://stackedit.io/>
- <https://pandao.github.io/editor.md/en.html>
- <https://markable.in/>

# Writage for MS Word - Free

- Download - <http://www.writage.com/>
- Windows only
- Allows you to open an edit a Markdown document from within Word
- Supports Markdown as a “Save As” option

# Atom - Free

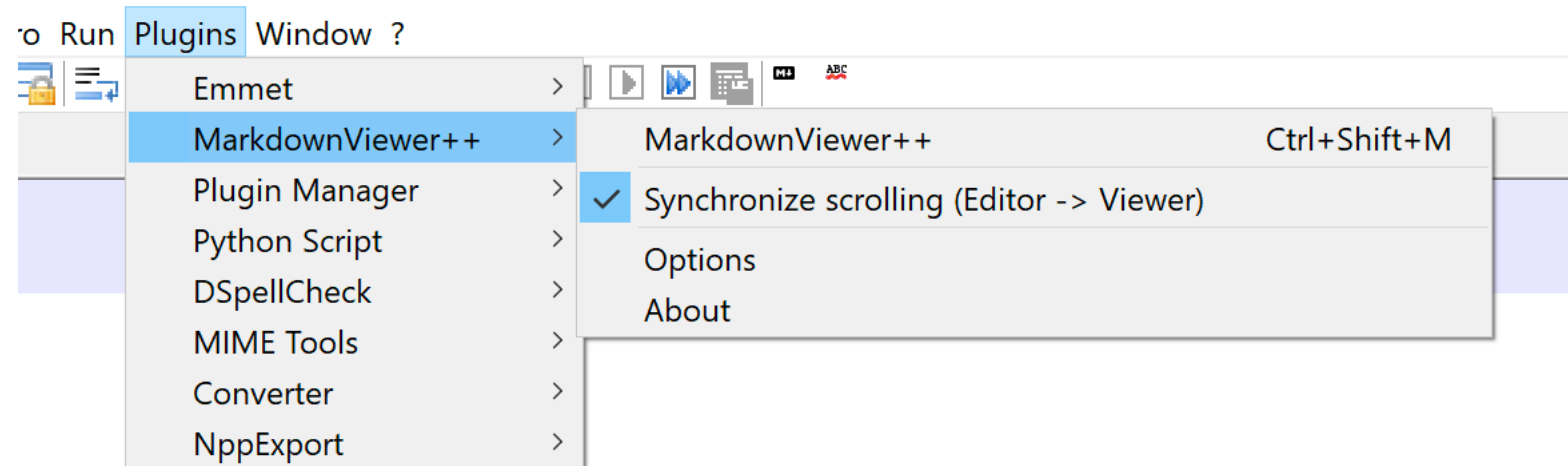
- <http://atom.io>
- Baked right into the editor
- No plugins or extensions needed
- Bruce demo





# Notepad++ - Free

- Download - <https://notepad-plus-plus.org/>
- Requires the Markdown plugin



# Notepad++

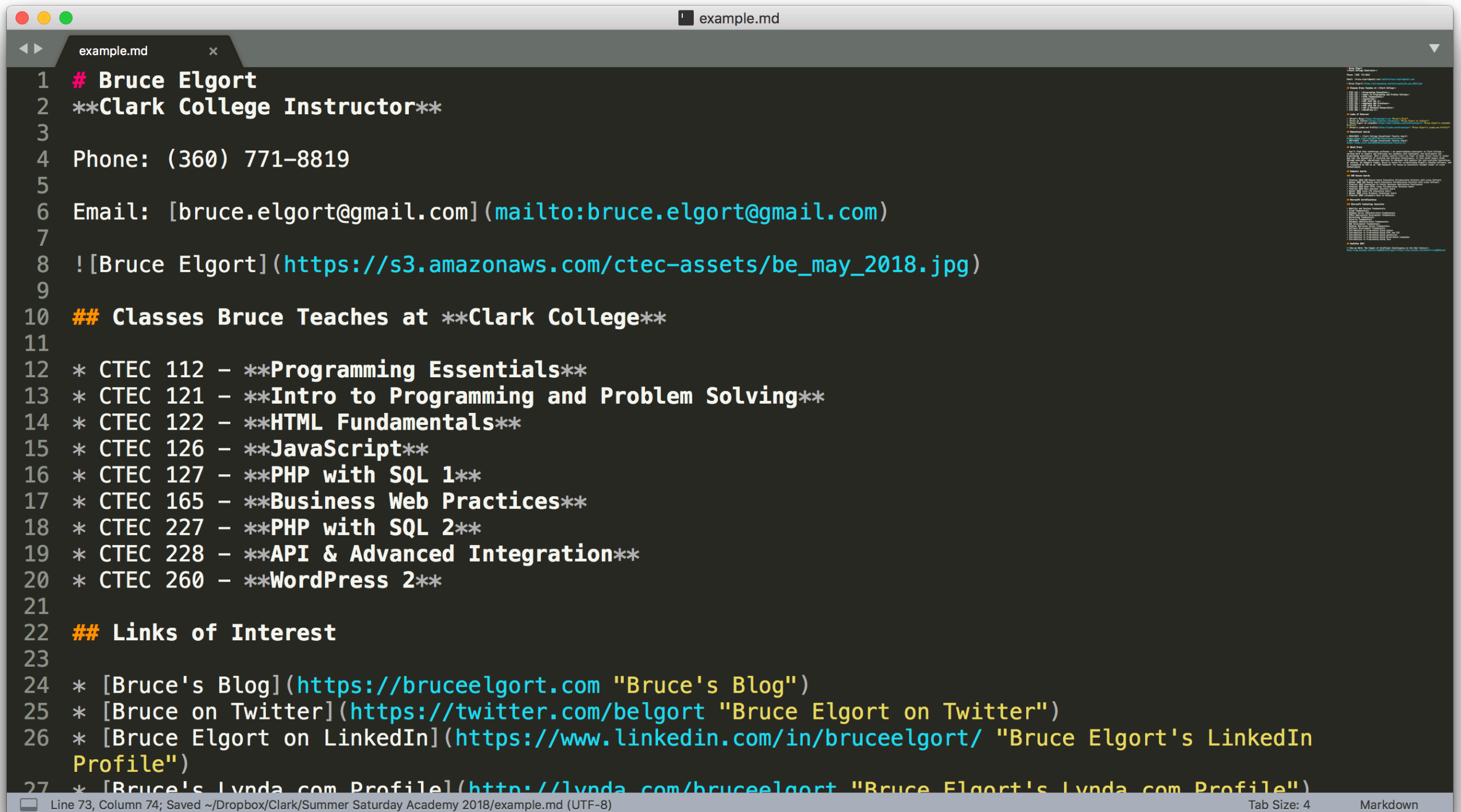
The screenshot displays the Notepad++ application window. The top menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, and Window. Below the menu is a toolbar with various icons. The main editing area is split into two panes. The top pane, titled 'MarkdownViewer++', shows the rendered output of the Markdown text: a bold heading 'Bruce Elgort', a bold heading 'Clark College', a bold heading 'Classes Bruce Teaches', and a bulleted list containing 'CTEC 121' and 'CTEC 122'. The bottom pane, titled 'new 1', shows the source Markdown code with line numbers 1 through 7. Line 5 is highlighted in light blue. The status bar at the bottom indicates 'Normal text file', 'length : 87 lines : 7', 'Ln : 5 Col : 1 Sel : 0 | 0', 'Windows (CR LF)', 'UTF-8', and 'INS'. The Windows taskbar is visible at the very bottom with the search bar and several pinned application icons.

```
1 # Bruce Elgort
2 ## Clark College
3
4 ### Classes Bruce Teaches
5
6 * CTEC 121
7 * CTEC 122
```

# Sublime Text

- Download - <https://www.sublimetext.com/3>
- Install Package Control - <https://packagecontrol.io/installation>
- Install Package - Markdown Preview
- Bruce demo

# Sublime Text



```
1 # Bruce Elgort
2 **Clark College Instructor**
3
4 Phone: (360) 771-8819
5
6 Email: [bruce.elgort@gmail.com](mailto:bruce.elgort@gmail.com)
7
8 ![Bruce Elgort](https://s3.amazonaws.com/ctec-assets/be_may_2018.jpg)
9
10 ## Classes Bruce Teaches at **Clark College**
11
12 * CTEC 112 - **Programming Essentials**
13 * CTEC 121 - **Intro to Programming and Problem Solving**
14 * CTEC 122 - **HTML Fundamentals**
15 * CTEC 126 - **JavaScript**
16 * CTEC 127 - **PHP with SQL 1**
17 * CTEC 165 - **Business Web Practices**
18 * CTEC 227 - **PHP with SQL 2**
19 * CTEC 228 - **API & Advanced Integration**
20 * CTEC 260 - **WordPress 2**
21
22 ## Links of Interest
23
24 * [Bruce's Blog](https://bruceelgort.com "Bruce's Blog")
25 * [Bruce on Twitter](https://twitter.com/belgort "Bruce Elgort on Twitter")
26 * [Bruce Elgort on LinkedIn](https://www.linkedin.com/in/bruceelgort/ "Bruce Elgort's LinkedIn Profile")
27 * [Bruce's Lynda.com Profile](http://lynda.com/bruceelgort "Bruce Elgort's Lynda.com Profile")
```

Line 73, Column 74; Saved ~/Dropbox/Clark/Summer Saturday Academy 2018/example.md (UTF-8) Tab Size: 4 Markdown

# Visual Studio Code

- Download - <https://code.visualstudio.com/>
- Install Extension - Markdown All in One
- Bruce demo

# Visual Studio Code

example.md x

1 # Bruce Elgort  
2 \*\*Clark College Instructor\*\*  
3  
4 Phone: (360) 771-8819  
5  
6 Email: [bruce.elgort@gmail.com](mailto:bruce.elgort@gmail.com)  
7  
8 ![Bruce Elgort](https://s3.amazonaws.com/ctec-assets/be\_may\_2018.jpg)  
9  
10 ## Classes Bruce Teaches at \*\*Clark College\*\*  
11  
12 \* CTEC 112 - \*\*Programming Essentials\*\*  
13 \* CTEC 121 - \*\*Intro to Programming and Problem Solving\*\*  
14 \* CTEC 122 - \*\*HTML Fundamentals\*\*  
15 \* CTEC 126 - \*\*JavaScript\*\*  
16 \* CTEC 127 - \*\*PHP with SQL 1\*\*  
17 \* CTEC 165 - \*\*Business Web Practices\*\*  
18 \* CTEC 227 - \*\*PHP with SQL 2\*\*  
19 \* CTEC 228 - \*\*API & Advanced Integration\*\*  
20 \* CTEC 260 - \*\*WordPress 2\*\*  
21  
22 ## Links of Interest  
23  
24 \* [Bruce's Blog](https://bruceelgort.com "Bruce's Blog")  
25 \* [Bruce on Twitter](https://twitter.com/belgort "Bruce Elgort on Twitter")  
26 \* [Bruce Elgort on LinkedIn]  
(https://www.linkedin.com/in/bruceelgort/ "Bruce Elgort's LinkedIn Profile")  
27 \* [Bruce's Lynda.com Profile](http://lynda.com/bruceelgort "Bruce Elgort's Lynda.com Profile")  
28  
29 ## Educational Awards  
30  
31 \* 2012/2013 - [Clark College Exceptional Faculty Award]  
(https://news.clark.edu/2013/09/honoring-excellence/)  
32 \* 2017/2018 - [Clark College Exceptional Faculty Award]  
(https://news.clark.edu/2018/06/exceptional-faculty-3/)  
33


Preview example.md x

Bruce Elgort

Clark College Instructor

Phone: (360) 771-8819

Email: [bruce.elgort@gmail.com](mailto:bruce.elgort@gmail.com)



Classes Bruce Teaches at **Clark College**

- CTEC 112 - **Programming Essentials**
- CTEC 121 - **Intro to Programming and Problem Solving**
- CTEC 122 - **HTML Fundamentals**
- CTEC 126 - **JavaScript**
- CTEC 127 - **PHP with SQL 1**
- CTEC 165 - **Business Web Practices**
- CTEC 227 - **PHP with SQL 2**

# WordPress

- You can use Markdown in WordPress
- In the Admin panel > Settings > Writing you can enable Markdown

Wireless Connection x Writing Settings < Bruce Elgort x

Secure | https://bruceelgort.wordpress.com/wp-admin/options-writing.php

My Site Reader Write Help

## Writing Settings

**Formatting**

- ☒ Convert emoticons like :-) and :-( to graphics on display
- ☒ WordPress should correct invalid XHTML automatically

**Default Post Category** Miscellaneous

**Default Post Format** Standard

**Default Link Category** Blogroll

**Markdown**

- ☒ Use Markdown for posts and pages.  
[Learn more about Markdown.](#)

**Your Custom Content Types**

Use these settings to display different types of content on your site. [Learn More](#)

**Testimonials**

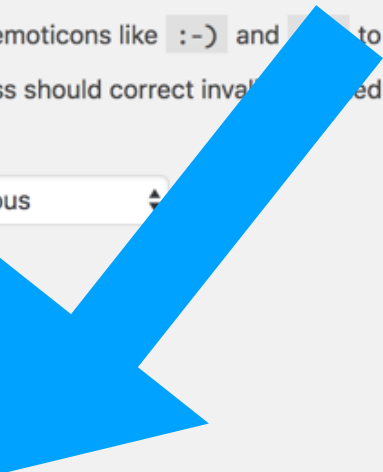
- ☐ Enable Testimonials for this site. [Learn More](#)

**Portfolio Projects**

- ☐ Enable  
Portfolio pages display at most 10 projects

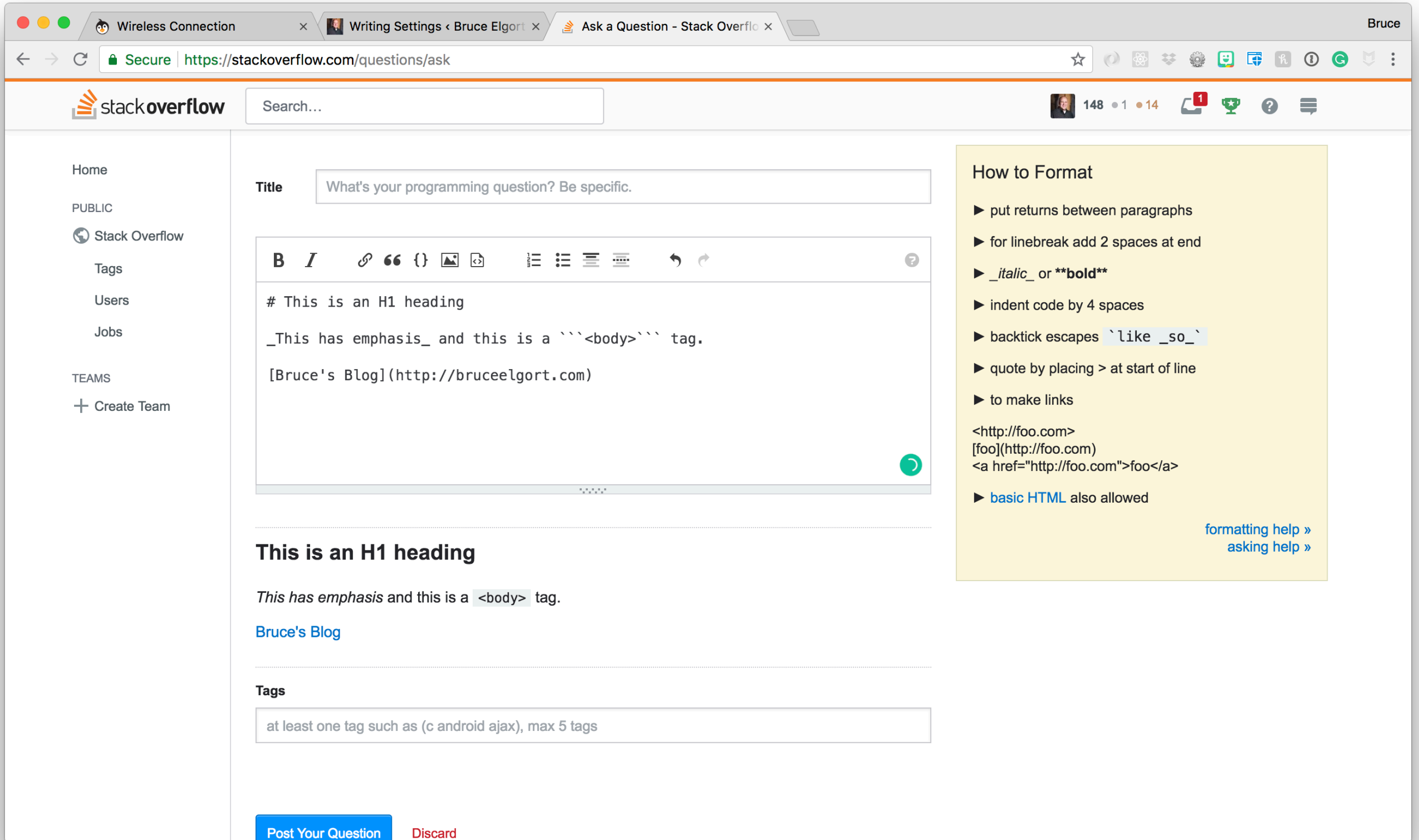
**Post by Email**

You can publish posts using emails with the [Post by Email](#) feature. To enable this visit your [My Blogs](#) page and create a secret address.





# StackOverflow



# Python You Ask?

\*markdown\_demo\_1.py - /Users/bruceelgort/Dropbox/Clark/Summer Saturday Academy 2018/markdown\_demo\_1.py (3.6.5)\*

```
# A Python Program to Convert a Markdown File to HTML
```

```
import markdown
```

```
print('Opening file...')
```

```
fileIn = open('example.md','r',encoding="utf-8")
```

```
fileOut = open('example.html','w',encoding="utf-8")
```

```
print('Processing Markdown...')
```

```
for line in fileIn:
```

```
    line = line.rstrip()
```

```
    html = markdown.markdown(line)
```

```
    print(html)
```

```
    fileOut.write(html + '\n')
```

```
fileIn.close()
```

```
fileOut.close()
```

```
print('Markdown to HTML process completed')
```

Ln: 22 Col: 0

Ln: 22 Col: 0

**Final Exam Time!**

# Let's Play a Game...

1. From the app store download “Kahoot! Play & Create”
2. If you are using a PC point your web browser to:  
  
**<http://kahoot.it>**
3. Type in the **PIN** that Bruce will show on the screen
4. Get ready to rumble!!!

# Useful Links

- **Daring Fireball Markdown Reference** - <https://daringfireball.net/projects/markdown/>
- **Markdown Cheatsheet** - <https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet#headers>
- **Reddit Markdown Primer** - [https://www.reddit.com/r/reddit.com/comments/6ewgt/reddit markdown primer or how do you do all that/c03nik6/](https://www.reddit.com/r/reddit.com/comments/6ewgt/reddit_markdown_primer_or_how_do_you_do_all_that/c03nik6/)
- **Stackoverflow Markdown** - <https://stackoverflow.com/editing-help>
- **Deckdown** - <http://deckdown.org/>