Emacs isn't a text editor, it's a lifestyle.

All hail Emacs.

Emacs? That sounds like an Apple™ thing.

- Emacs stands for Editor MACroS.
- Emacs started as some macros for TECO (Text E ditor and COrrector)
- Created in 1976 by some people, including Guy Steele.

Some stuff about Emacs.

- Emacs is a graphical text editor
 - ► -nw flag in case you gotta use a terminal
- ► C-h t to start the tutorial
 - Next slide will explain notation

Shortcuts.

- ► C-h t to start the tutorial
- Shortcuts show sequences of key presses
 - ▶ The C- prefix represents the control key being held
 - The M- prefix represents the alt (meta) key being held
- Some more examples:
 - C-p, C-n, C-f, and C-b move the cursor thing up, down, rightward, and leftward respectively.
 - Of course, you can make some shortcuts of your own.

Code Blocks

```
(message "Hello, World!")
def foo (n) :
    if n == 0 :
        return 1
    return n * foo(n-1)
return foo(5)
```

Games

```
(chess) ; With AI
(chess '(nil)) ; No AI
(chess-tutorial)
```

Games

(slime-volleyball)

Games

There are a lot of games, ok?

XKCD

```
(xkcd-get 378)
(butterfly)
```

Calculator

(calc)

You can also just do a code block if you wanna.

return "The answer to life, the universe, and everything is

Tables

Table 1

Emacs Usage (hours/day)	"Coolness"
0	0
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100
11	121
12	144
13	169
14	196

Tables as input to code

```
import functools
max_coolness = functools.reduce(lambda a,b: max(a,b[1]), ta
return max_coolness
```

Tables as output from code

```
import random
tab = []
for j in range(4) :
   tab.append([])
   for i in range(4) :
     tab[j].append(random.randint(0,9))
return tab
```

Elisp (1)

About time, eh?

```
(message "Hello, World!")
```

- "LISP" = "Lots of Irritating Superfluous Parentheses"
- "E" = "Emacs"
- M-x ielm to run elisp.
- You can also run a line of elisp with C-x C-e.

Elisp (2)

Functions

```
(defun call-it-cool (thing) (message "%s is cool." thing))
(call-it-cool "Emacs")
```

Elisp (3)

Lists

```
(list 1 2 3
4 5 6
7 8 9)
```

Elisp (4)

```
(switch-to-buffer "*Messages*")
(switch-to-buffer "*scratch*")
(goto-char (point-min))
(set-mark-command (point))
(goto-char (point-max))
(delete-active-region)
```

Elisp (5)

```
( + 1 2 3
( * 2 2 )
)
```

Elisp (6)

```
(car '(1 2 7 3))
(cdr '(1 2 7 3))
```

Elisp (7)

Elisp (8)

```
(defun reduce (f 1 v)
  (if 1
        (reduce f (cdr 1) (funcall f v (car 1)))
        v
   )
)
(reduce '+ '(8 6 7 5 3 0 9) 0)
```

Elisp (9)

```
(seq-reduce '+ '(8 6 7 5 3 0 9) 0)
(mapcar '1+ [1 2 3])
```

Elisp (10)

```
(defun example-interactive-function (x y s)
  (interactive "nFirst Number: \nnSecond Number: \nMString
  (message "%d %s" (+ x y) s))
(call-interactively 'example-interactive-function)
```

Elisp (11)

Characters are like integers

```
(- ?C ?A)
?A
(kbd "C-x M-c M-")
```

Elisp (12)

```
(list
  (integerp 17)
  (integerp '(1 2 3))
  (sequencep '(1 2 3))
  (sequencep 17)
)
```

Elisp (13)

```
(list
  (format "%c" (elt "Some text" 3))
  (elt '(42 65 100 2) 2)
)
```

Elisp (14)

```
(cons 1 (cons 2 (cons 3 (cons 4 nil))))
'(1 . (2 . (3 . (4 . nil))))
'(1 2 3 4)
```

Elisp (15)

```
(setq counter-thing 0)
(setq string-thing "Some numbers:")
(while (< counter-thing 10)
  (setq string-thing (format "%s %s" string-thing counter-
  (setq counter-thing (+ counter-thing 1))
)
string-thing</pre>
```

Elisp (16)

Elisp (17)

```
(set-background-color "black")
(set-foreground-color "green")

(set-background-color "white")
(set-foreground-color "black")

(set-background-color "#272822"); Theme's Default
(set-foreground-color "white")
```

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Elisp (18)

```
(highlight-regexp "[AaEeIiOoUu]" "hi-pink") ;M-s h r
(unhighlight-regexp "[AaEeIiOoUu]") ;M-s h u
```

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Elisp (19)

(highlight-changes-mode)

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Elisp (20)

I ran lorem-ipsum-insert-paragraphs to get the Lorem Ipsum.

```
(search-forward "•")
(lorem-ipsum-insert-paragraphs)
; Make sure to click somewhere after the dot.
; You wouldn't want lorem ipsum in your code, would you?
; Also, be able to edit.
```

•

Terminal Emulators in Emacs

```
(term "/bin/zsh")
```

EWW

```
(eww "https://www.google.com/")
```

Some Org mode stuff I forgot about

Collapse with Tab

- How many are checked? [3/5]

 - ☐ Check / Uncheck
 - Check / Uncheck
 - Check / Uncheck [1/2]
 - ☐ Check / Uncheck
 - Check / Uncheck





The End

```
I'll keep going, then?
```

