CS 105

Part Two

What Will We Do Today?

Meet Martin (well, 3 of us)
The Orange Furball
What Does The Fox Say?
The Annoying Equal Sign
Our Very First Formula

Meet Martin

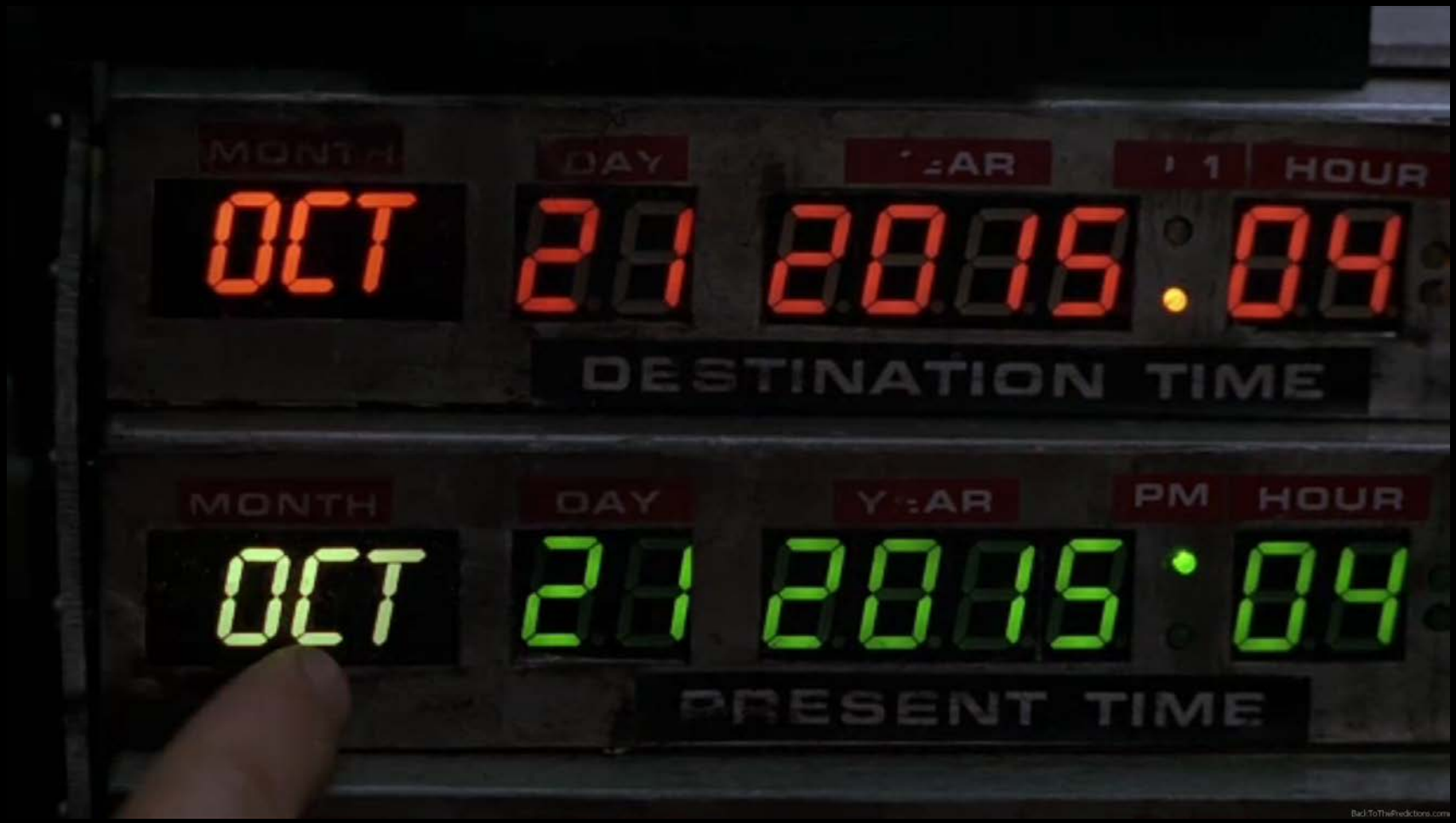
Meet Martin

Martin Seamus McFly

Meet Martin

"Marty" McFly

Tonight at 6:29 (CDT)…



Meet Martin & Doc

STEVEN SPIELBERG Presents
BACK TO THE FUTURE PART II
A ROBERT ZEMECKIS Film
MICHAEL J. FOX
CHRISTOPHER LLOYD
Getting back was only the beginning.
MICHAEL J. FOX
CHRISTOPHER LLOYD BACK TO THE FUTURE PART II LEA THOMPSON THOMAS F. WILSON
MUSIC BY ALAN SILVESTRI
EDITED BY ARTHUR SCHMIDT HARRY KERAMIDAS
PRODUCTION DESIGNER RICK CARTER
DIRECTOR OF PHOTOGRAPHY DEAN CUNDEY, A.S.C.
AN EXECUTIVE PRODUCER STEVEN SPIELBERG
FRANK MARSHALL KATHLEEN KENNEDY
SCREENPLAY BY BOB GALE
STORY BY ROBERT ZEMECKIS & BOB GALE
PRODUCED BY BOB GALE AND NEIL CANTON
Special Visual Effects By INDUSTRIAL LIGHT & MAGIC
OPENS NOVEMBER 22ND
DIRECTED BY ROBERT ZEMECKIS
A UNIVERSAL PICTURE

Hey, where's my hoverboard?

Meet Martin

Martin D. Hellwig != Martin F. Hellwig

Both are amazing (and German),
but I’m the one on the left

ESTONIAN AIR

SOLARGY LIGHTS

Lufthansa City Center

BEST BUY

Google

BIG K mart

sears

Walmart

Universität Lüneburg

UMASS BOSTON

ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

UND
UNIVERSITY OF NORTH DAKOTA

Universität Dortmund

SOLARGY LIGHTS

NATIONAL PARK SERVICE

FOCUS On Children
Boston Public Schools

N6021K

The Orange Furball

The Orange Furball

The Orange Furball

Joey

What Does the Fox Say?

What Does the Fox Say?

Bark?

Meow?

Hoot?

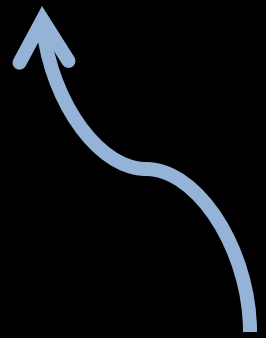
Or are foxes mute?

What Does the Fox Say?

Fox.mp4

What Does the Fox Say?

Fox.mp4



What's That?

Why File Extensions Matter

ZIP	DOCX	JPG	SB2
EXE	XLSX	MP3	HTML
JS	PDF	AVI	CSS
CPP	TXT	MP4	PNG

The Annoying =

The Annoying =

=, ==, ===, what gives?

The Annoying =

In JavaScript:

The Annoying =

In JavaScript:

=	assigns values
==	compares values
===	compares types

The Annoying =

In JavaScript:

```
var mynumber = 5
if (mynumber == 5) { }      //true
if (mynumber === "5"){}  //false
```

The Annoying =

In Excel, however:

= assigns

= compares

The Annoying =

In Excel, however:

= assigns (typically to a cell)

= compares

The Annoying =

In Excel, however:

=sum(2,5)

=if(5=2,"yes","no")

The Annoying =

In Excel, however:

=sum(2,5)	7
=if(5=2,"yes","no")	no

Our Very First Formula

How much did you spend today?

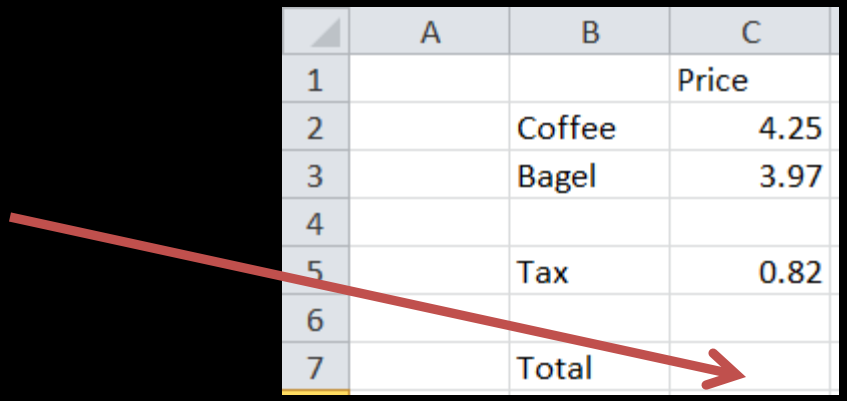
Our Very First Formula

How much did you spend today?

	A	B	C
1			Price
2		Coffee	4.25
3		Bagel	3.97
4			
5		Tax	0.82
6			
7		Total	

Our Very First Formula

How much did you spend today?



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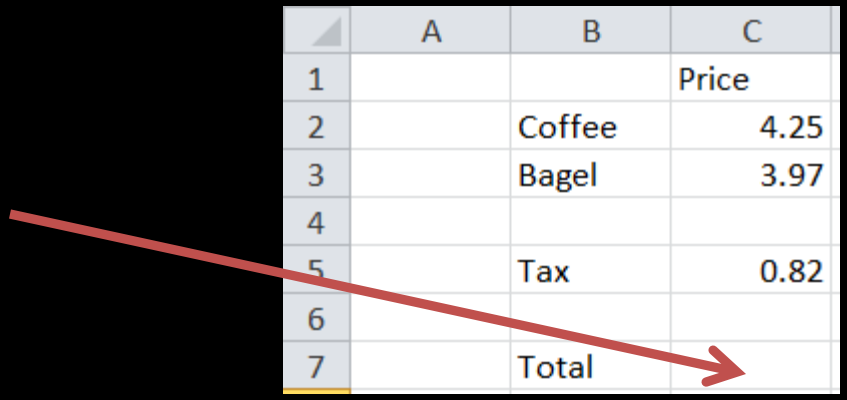
7		Total	

Our Very First Formula

How much did you spend today?



	A	B	C
1			Price
2		Coffee	4.25
3		Bagel	3.97
4			
5		Tax	0.82
6			
7		Total	

=sum(C2:C5)

Our Very First Formula

How much did you spend today?

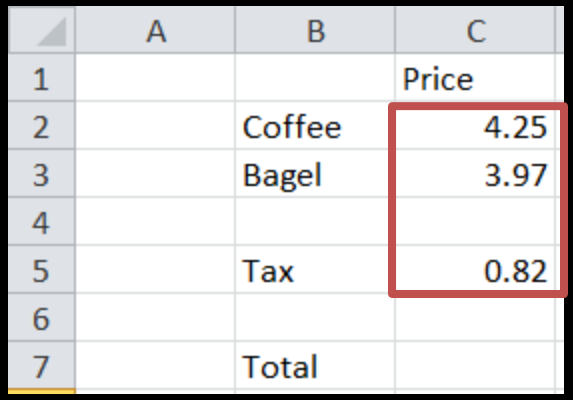
	A	B	C
1			Price
2		Coffee	4.25
3		Bagel	3.97
4			
5		Tax	0.82
6			
7		Total	

What's That?

=sum(C2:C5)

Our Very First Formula

How much did you spend today?



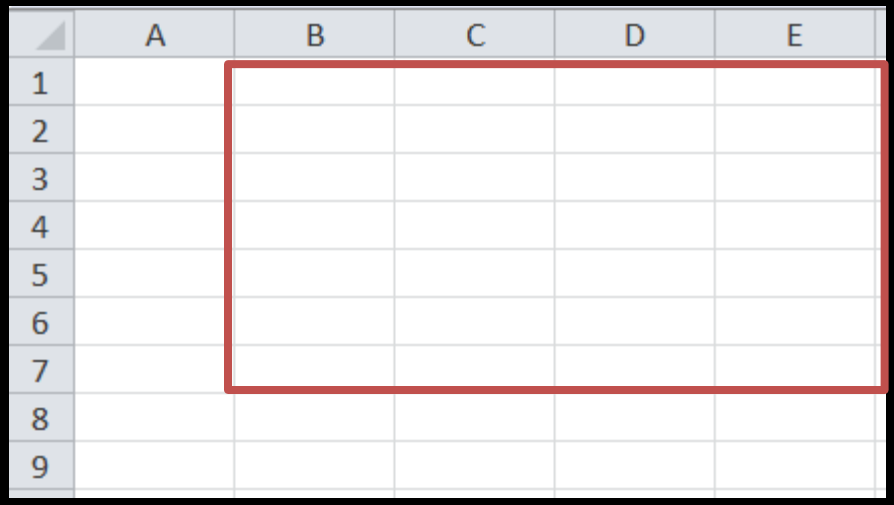
	A	B	C
1			Price
2		Coffee	4.25
3		Bagel	3.97
4			
5		Tax	0.82
6			
7		Total	

What's That?

=sum(C2:C5)

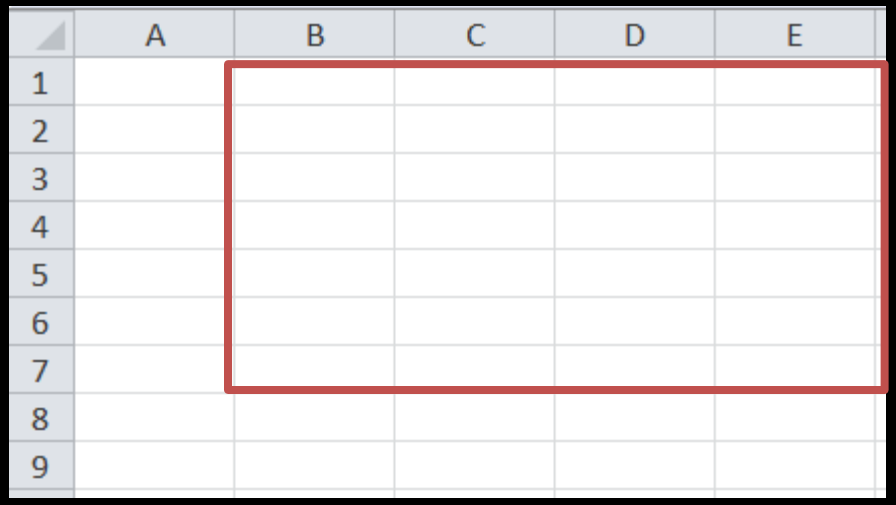
Another Range

B1:E7



Another Range

B1:E7



=sum(B1:B7)