

AGENDA

First – Quick Review

- PLEASE
- I create the Videos for you to Watch, Rewind, Re-watch, etc.
- If I ask you to watch, take the time to do so
 - thank you

IMS322 Chapt5 DOM TWY

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	Start Time	Number Correct (%)	Percentile	▲ Content Watched
oh.edu	Last Saturday at 11:16 PM	2 (100%)	77	1%
mloh.edu	March 20 2020 4:25 PM	2 (100%)	77	2%
oh.edu	Last Saturday at 11:14 PM	2 (100%)	77	10%
nloh.edu	March 19 2020 11:18 PM	1 (50%)	19	12%
nloh.edu	March 19 2020 1:48 AM	1 (50%)	19	14%
nloh.edu	March 18 2020 7:19 PM	O (O%)	1	23%
nloh.edu	March 19 2020 1:36 PM	2 (100%)	77	25%
oh.edu	Last Saturday at 11:13 PM	O (O%)	1	26%
øgmall.com	Last Sunday at 12:15 PM	1 (50%)	19	32%
mloh.edu	March 19 2020 2:46 PM	2 (100%)	77	43%
mloh.edu	March 20 2020 6:53 PM	1 (50%)	19	45%

Wed, April 1, 2020







AGENDA FOR TODAY/TONIGHT

LIL' STORY & MOVIE FOR YOU

TIME TO WORK!



Chapter 6 - Events

JavaScript is the 3rd leg of the HTML5 3-Legged Stool.

We use JavaScript for INTERACTIVITY.

It is the Combination of Events, Event Listeners, and the Code Response

That Creates the Interactivity



BUBBLE

fresh figs 🗷

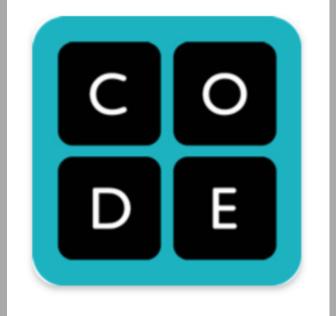


CAPTURE

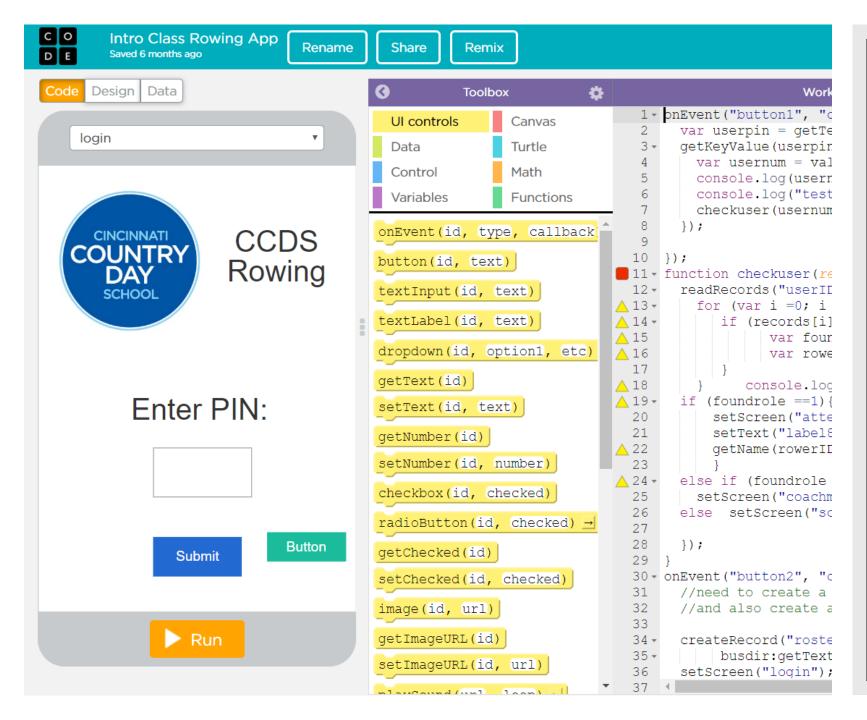
fresh figs 🗷

BEFORE we Get To JQUERY..

WE HAVE BEEN USING
CODE.ORG TO HELP
DEMONSTRATE CONCEPTS
OF EVENTS, TRIGGERS AND
INTERACTIVITY



Code.org



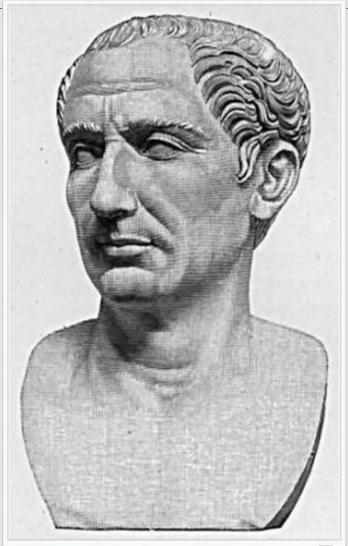
Code.org AppLab

Allows for fast, east Web App Design for Hobby Use

Features like switching between Code & Blocks, and Drag & Drop Designs allows you to create Fast Prototypes and 'Concept' apps for Marketing Projects, Pitch Competitions and More. What Will we Create Today?

We will combine **EVENTS**, JavaScript knowledge, and a little CS Know-How with an ASCII table to Create Encrypted Messages to send to others





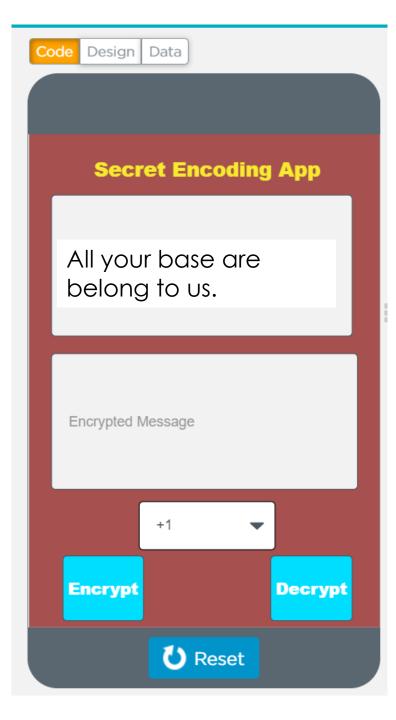
The Caesar cipher is named for
Julius Caesar, who used an alphabet
where decrypting would shift three
letters to the left.



ASKEE - Who? No... ASCII Conversion TABLE

Dec	H	Oct	Cha	,	Dec	Нх	Oct	Html	Chr	Dec	Нх	Oct	Html	Chr	Dec	Нх	Oct	Html Ch	hr_
0	0	000	NUL	(null)	32	20	040		Space	64	40	100	«#64;	0	96	60	140	`	*
1				(start of heading)	33	21	041	a#33;	1	65	41	101	a#65;	A				a#97;	a
2				(start of text)	34	22	042	%#34 ;	rr	66	42	102	<u>4</u> #66;	В	98	62	142	a#98;	b
3	3	003	ETX	(end of text)	35	23	043	#	#	67	43	103	C	C	99	63	143	c	C
4	4	004	EOT	(end of transmission)	36	24	044	\$	ş	68	44	104	D	D	100	64	144	@#100;	d
5	5	005	ENQ	(enquiry)	37	25	045	G#37;	*	69	45	105	E	E	101	65	145	@#101;	e
6	6	006	ACK	(acknowledge)	38	26	046	4#38;	6	70	46	106	a#70;	F	102	66	146	6#102;	£
7	7	007	BEL	(bell)	39	27	047	G#39;	1	71	47	107	@#71;	G				@#103;	
8	8	010	BS	(backspace)				(72			6#72;					«#104;	
9	9	011	TAB	(horizontal tab))		73			6#73;					@#105;	
10	A	012	LF	(NL line feed, new line)				&# 4 2;					6#74;					j	_
11	В	013	VT	(vertical tab)				&#43;</td><td></td><td></td><td></td><td></td><td>@#75;</td><td></td><td></td><td></td><td></td><td>@#107;</td><td></td></tr><tr><td>12</td><td>С</td><td>014</td><td>FF</td><td>(NP form feed, new page)</td><td></td><td></td><td></td><td>@#44;</td><td></td><td></td><td></td><td></td><td>L</td><td></td><td></td><td></td><td></td><td>l</td><td></td></tr><tr><td>13</td><td>D</td><td>015</td><td>CR</td><td>(carriage return)</td><td></td><td></td><td></td><td>&#45;</td><td></td><td></td><td></td><td></td><td>G#77;</td><td></td><td></td><td></td><td></td><td>@#109;</td><td></td></tr><tr><td>14</td><td></td><td>016</td><td></td><td>(shift out)</td><td></td><td></td><td></td><td>&#46;</td><td></td><td></td><td></td><td></td><td>N</td><td></td><td></td><td></td><td></td><td>n</td><td></td></tr><tr><td>15</td><td>F</td><td>017</td><td></td><td>(shift in)</td><td></td><td></td><td></td><td>6#47;</td><td></td><td>79</td><td></td><td></td><td>O</td><td></td><td></td><td></td><td></td><td>o</td><td></td></tr><tr><td></td><td></td><td>020</td><td></td><td>(data link escape)</td><td></td><td></td><td></td><td>6#48;</td><td></td><td>80</td><td></td><td></td><td>O;</td><td></td><td></td><td></td><td></td><td>p</td><td>_</td></tr><tr><td></td><td></td><td></td><td></td><td>(device control 1)</td><td></td><td></td><td></td><td>6#49;</td><td></td><td></td><td></td><td></td><td>Q</td><td></td><td></td><td></td><td></td><td>@#113;</td><td>_</td></tr><tr><td></td><td></td><td></td><td></td><td>(device control 2)</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td>R</td><td></td><td></td><td></td><td></td><td>r</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>(device control 3)</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td>S</td><td></td><td></td><td></td><td></td><td>@#115;</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>(device control 4)</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td>4;</td><td></td><td></td><td>_</td><td></td><td>t</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>(negative acknowledge)</td><td></td><td></td><td></td><td>6#53;</td><td></td><td></td><td></td><td></td><td>U</td><td></td><td></td><td></td><td></td><td>u</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>(synchronous idle)</td><td></td><td></td><td></td><td>4;</td><td></td><td></td><td></td><td></td><td>V</td><td></td><td></td><td></td><td></td><td>v</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>(end of trans. block)</td><td></td><td>_</td><td></td><td>7</td><td></td><td>87</td><td></td><td></td><td>W</td><td></td><td></td><td></td><td></td><td>w</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>(cancel)</td><td></td><td></td><td></td><td>8</td><td></td><td>88</td><td></td><td></td><td>X;</td><td></td><td></td><td></td><td></td><td>x</td><td></td></tr><tr><td></td><td></td><td>031</td><td></td><td>(end of medium)</td><td>57</td><td></td><td></td><td>6#57;</td><td></td><td>89</td><td></td><td></td><td>Y</td><td></td><td></td><td></td><td></td><td>y</td><td></td></tr><tr><td></td><td></td><td>032</td><td></td><td>(substitute)</td><td></td><td></td><td></td><td>:</td><td></td><td>90</td><td></td><td></td><td>Z</td><td></td><td></td><td></td><td></td><td>z</td><td></td></tr><tr><td></td><td></td><td>033</td><td></td><td>(escape)</td><td></td><td></td><td></td><td>6#59;</td><td>-</td><td>91</td><td></td><td></td><td>[</td><td>-</td><td></td><td></td><td></td><td>6#123;</td><td></td></tr><tr><td></td><td></td><td>034</td><td></td><td>(file separator)</td><td></td><td></td><td></td><td><</td><td></td><td></td><td></td><td></td><td>\</td><td></td><td></td><td></td><td></td><td> </td><td></td></tr><tr><td></td><td></td><td>035</td><td></td><td>(group separator)</td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td><td>6#93;</td><td>_</td><td></td><td></td><td></td><td>6#125;</td><td></td></tr><tr><td></td><td></td><td>036</td><td></td><td>(record separator)</td><td></td><td></td><td></td><td>></td><td></td><td></td><td></td><td></td><td>a#94;</td><td></td><td></td><td></td><td></td><td>~</td><td></td></tr><tr><td>31</td><td>1F</td><td>037</td><td>US</td><td>(unit separator)</td><td> 63</td><td>ЗF</td><td>077</td><td>?</td><td>?</td><td>95</td><td>5F</td><td>137</td><td>a#95;</td><td>_</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>s</td><td>ourc</td><td>e: W</td><td>ww.</td><td>Look</td><td>upTables</td><td>s.com</td></tr></tbody></table>											

asciitable.com



Let's Build an App!!

Event
Handlers?
Be like What?

Event Type	Description
change	The specified element has been modified and enter has been pressed.
click	The user clicked on the specified element.
mouseover	The user moved the mouse cursor over the specified element.
keydown	The user pressed a keyboard key while the mouse was over the element.

Tools Needed

1. GRAPHICS

- LABEL/ TITLE for Your App
- Input Box for Plaintext
- Input Box For Ciphertext
- Drop Down Box for Variable Shift
- Buttons For ENCRYPT and DECRYPT

2. INTERACTION

- Based on User input (ENCR or DECR):
- User Enters Text In one of TWO input Boxes
- Select +/- shift
- Select AppropriateButton



- Read in Test Phrase
- Read in shift value
- Store as an array of words, using 'split'method, i.e.

var words = str.split(" ");

Words is converted to an array, words[], where each word, separated by a space, is stored into sep. box

Split each word into an array of letters, using str.split("") with no space in quotes

Get the ASCII value of each letter word.charCodeAt(xx), where word is the variable name of the word, and xx is the position of the letter (used in a for loop)

Add the shift to the ASII value

Convert the ASCII number back to a letter, String.fromCharCode(xx), where xx is the new ascii number (ltr + shift)

Explained

Word: Ball (to lower case) →

Shift +3

b → convert to ascii → 98

Add shift (I selected 3)

98 + 3 → 101

101 \rightarrow convert to alpha \rightarrow e

Ball \rightarrow ball \rightarrow edoo

"Be sure to drink your Ovaltine"

Becomes

"be sure to drink your ovaltine"

Then

"eh vxuh wr gulqn brxu rydowlqh"

LET'S WRITE CODE!