Piano on the Web

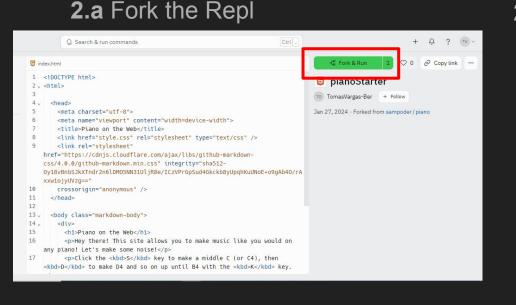
Hack Club

Starter code: <u>replit.com/@TomasVargas-Ber/pianoStarter</u> Final Code: <u>replit.com/@TomasVargas-Ber/pianoWorkshopFinal</u>

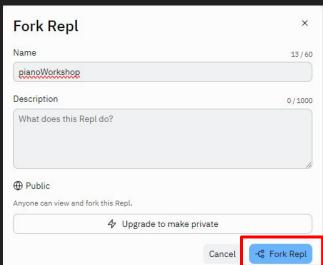
Getting Started:

1. Open up starter repl:

replit.com/@TomasVargas-Ber/pianoStarter



2b.



Space Bar Game Making the Piano

in index.html add the following (between the "Piano div here" comments):

```
<div id="piano">

<span class="key" id="C"><strong>C</strong></span>

<span class="key" id="D"><strong>D</strong></span>

<span class="key" id="E"><strong>E</strong></span>

<span class="key" id="F"><strong>F</strong></span>

<span class="key" id="G"><strong>G</strong></span>

<span class="key" id="A"><strong>A</strong></span>

<span class="key" id="B"><strong>A</strong></span>

<span class="key" id="B"><strong>B</strong></span>

</div>
```

Use copy paste, to do this section quickly!

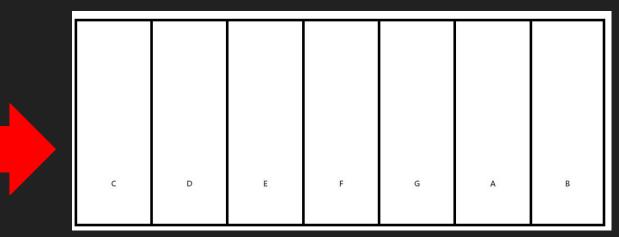
Making Piano (Lets fix it with CSS)

Piano on the W

Hey there! This site allows you t piano! Let's make some noise!

Click the s key to make a mide so on up until B4 with the ke

CDEFGAB



Making Piano (Lets fix it with CSS)

in style.css add the following:

Detecting Key Presses

document.onkeydown = fun console.log('Key press

in script.js add the foll

← → C/

🖵 Webview 🛛 🚳 Shell

Piano on the Web

Hey there! This site allows you to make music like you would on any piano! Let's make some noise!

Devtools

New tab

Click the s key to make a middle C (or C4), then D to make D4 and so on up until B4 with the κ key.

Console Elements Network Resources Dom Settings All Error Warning Info Q 0 * Tone.js v14.7.52 * Key pressed!

Detecting Key Presses

in script.js change to function to:

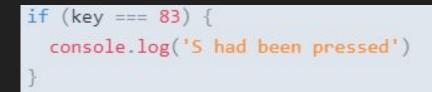
```
document.onkeydown = function (e) {
  e = e || window.event
  var key = e.which || e.keyCode
  console.log(key)
}
```

The use of ""is as a browser fallback as some browsers have different APIs.

https://www.toptal.com/developers/keycode (each key has its own code)

Detecting Key Presses

in script.js change to function to:



Making Noise

In script.js replace:

console.log('5 had been pressed')

with:

playNote('C')

Making Noise Add keys D, E, F, G, A, & B:

Use the format:

if (key === code) { playNote('Note')

~ 192	1	@ 2 50	# 3 51	\$ 4 52	% 5 53	^ 6 54	7		• 8 56	(9 57) 0 48	18		+ = 187	Backspace 8
Tab 9	Q 81	W 87	E 69			т 84	Y 89	U 85	1 73		O 79	P 80	{ [219	}] 221	 \ 220
Caps Lock 20	A 65	8		D 68	F 70	G 71	Н 72	J 74		К 75	L 76	: ; 186	22	2	Enter 13
Shift 16		Z 90	X 88	C 67	V 80	3.00	B 66	N 78	M 77	< , 188		> 90	? / 191		Shift 16
Ctrl 17	Win 91	A 1		6. 6	20 20	01:	32	98		lor.		lt L8	Win 92	Menu 93	u Ctrl 17

Making the UI interactive

In script.js in playNote():

document.getElementById(note).style.background = '#33d6a6'

Then:

```
setTimeout(() => {
    document.getElementById(note).style.background = 'white'
}, 200)
```

We are Done! Try messing around with the code and making it your own!

Piano on the Web

Hey there! This site allows you to make music like you would on any plano! Let's make some noise!

Click the (5) key to make a middle C (or C4), then (0) to make D4 and so on up until B4 with the (4) key.

C D E F G A	с	D	х.	F	G	A	в	