

! " # \$ % " & \$ % ' " % \$ # \$ & " ( 7

\*! " # \$: % \$ & ' ( ) \* + , ' + - DOM. . / 0 ' 1 2 3 \$ ) - " 3 \$ , 1 4 5 \* \$ 6 7 8 5 / 6 7 ' 7 \$ 9 \$ 2 \* / & 8 / 2 3 / 2 : 8 . \*

) \* + , : 6 7 5 / 3 " & & + 5 " 2 6 7 / 3 ' & / : - 5 8 : / 3 8 6 7 \$ & & + # HTML, CSS 7 \$ JavaScript 0 \* + - \$ : 3 ' ( \* " & & + - & \$ & ; , + : ' 5 : \* < = \$ < 7 ; 3 / 2 / 7 ) - ( / 0 ' + # 8 , \$ & ' # \$ , ' > < , 0 8 & \$ # ' = & 8 # 0 / 0 \$ 5 \$ & & + # : / & 7 " & 7 ) 7 \$ 6 7 8 \* " ? . @ / A & " - \$ 5 0 \$ & & + 6 ( 3 + # / 5 \$ & " & \$ 3 / - 5 8 7 / : & \$ 5 8 = / : 3 / 2 / 7 8 - DOM (Document Object Model), ( / 0 ' + # 8 , \$ & ' # \$ , ' > < , 6 7 8 \* ' - \$ , ' > < 7 \$ 5 - \$ > # / 0 ' > < : / 3 8 6 7 ) 5 \$ = \$ - 5 " 2 6 7 / 3 ' & : / < .

- . / 0 1 . + , 2 , / 0 2 + 3 4 5 , 6 0 7 0 + , :

¥ [Event reference](#)

¥ [Creating and triggering events](#)

¥ [Audio\(\) constructor](#)

¥ [CSS B\( 3 \\$ ? 7 8 - / 2 3 \\$ A " & ;](#)

¥ [CSS animation: keyframes](#)

8 6 , 9 + . : 5 , : , 2 + . 5 ,

' \* 0 7 ; 3 < 5 0 2 + = 0 6 . + . 1 6 > Wild Gunman.

. 38: \*\$0 C"?#(\*"+ /38C'&\$\*)

## Minimal functionality (4 7, ?.)

¥ . /=8&\$>7; 6+ C3\$.

¥ D\$ , "&73 ": 3\$&\$ 584/087; ("36/&\$A ' -) (8&+>7; 6+

¥ . /=8&\$>7; 6+ 3\$) &0 ((/5'0/#\*"&&+ Fire \$2/ ' &9 ")

¥ @/3867) 5\$= (/58&"& : \*': &) 78 #89: /< 6\$#" 5 ("36/&\$A\$ (0/-5/\*+>7; 6+ : \*': \$78 5  
(3+#/:) 7&8: , 5 +: /#) -/23\$A"&&+ ("36/&\$A\$. @\*': -\$48E\$>7; 6+ (/ 56; /#) ("38#"73)  
(3+#/:) 7&8: \$).

¥ F: E / : /3867) 5\$= : \*': &) 5 9 5809 " &'A =\$6 X 5'0 (/=\$7: ) 673'\*; 28, 7/ 5'& ("3#" 'C, +: E / &' - 7/ 5'& (3/C3\$5.

¥ G 3\$-' 58C3\$9) (/73'2&/ (/ : \$-\$78, E / : /3867) 5\$= ("3#" 'C. G 3\$-' (3/C3\$9) - E / (3/C3\$5.

¥ . "36/&\$A # \$> - #'&< 5\$78 65'? 58C\*+0 -\$\*"A&/ 5'0 7/C/, =8 5'& ?0", 67/17; , 673'\*+> \$2/  
(3/C3\$5 0) "\*" ; .

## Medium functionality (5 7, ?3=)

¥ H/0\$78 -5): 8 5 C3). I /&/5) #) -8: ) (sfx). . /5'0/#\*"&&+ (3/ 67\$7) 68 C38 (78() Fire ' 7.0).

¥ J# '&\$ #-8: 8 5 3\$- ' 58C3\$9) =8 (3/C3\$9).

¥ H/0\$78 : &/(:) ("3"-\$( )6: ) C38 - ('6\*+ -\$5"39 "&&+ 3\$) &0) : /3867) 5\$= &\$786: \$> 11 ?  
(/=8&\$>7; 6+ &/58? 3\$) &0.

## Advanced functionality (7 7, ?3=)

¥ . '6\*+ -\$: '&="&&+ 3\$) &0), +: E / : /3867) 5\$= 58C3\$5, ( /=8&\$>7; 6+ &/58?. K; /C/ 3\$-) =\$6 N  
-\$+: 8? 673'\*+>: /#( Ñ< 7"3&8? ("36/&\$A -#"&9)>7; 6+ (( '058E)>7; 6+ 6: \*\$0&'67; ).

¥ J3/2878, E/2 ) &/5/#) 3\$) &0' 2) 5 &/58? ("36/&\$A. %/A&\$ -3/2878 E/ 2 584/08\*8  
3\$&0/#&' ("36/&\$A' - ) 6'4 E / ) 5\$6 2) 0) 7; .

¥ J\$ : /A"& 3\$) &0 : /3867) 5\$= 2) 0" -\$3/2\*+78 /=: 8 (C3/9'). J : /A&8# 3'5&"# : '\*; : '67; /=/:  
-2'\*; 9)>7; 6+.

¥ D\$(38: '&, ' C38 &"/24'0&/ (/: \$-\$78 6: '\*; : 8 /=/: -\$3/285 : /3867) 5\$=.

## - . / 01. <0 @, =<, 55A:

¥ L8: /3867/5) ?7" M) &; , '/&\$\*; &8? 678\*; (3/C3\$#) 5\$&&+.

¥ L8: /3867/5) ?7" 7'\*; : 8 pure functions.

¥ N() 2\*': ) ?7" C3) &\$ [GitHub Pages](#)

## B05+60?C53@, D. +, 55A:

1. O/ 7\$: " 3/-# '3' (3/: 3) 7: \$ "\*"#"&7\$, ' +: , " 5(\*85\$> &\$ 5"23/-3/2: ) ?
2. F: #/A&\$ /738#\$78 3/-# '38 5': &\$ 7\$ (3/: 3) 7: ) 67/3'&: 8) JavaScript?
3. F: ' '6&)<7; : //308&\$7&' 6867"#8 ) 5"23/-3/2, ', ' +: #/A&\$ /738#\$78 : //308&\$78  
" "\*"#"&'5) 5'0&/9 "&&' 0/ , 84 6867"#?
4. F: ' #/A\*85/67' &\$0\$> -&\$&&+ (3/ 3/-# '38, (3/: 3) 7: ) 7\$ : //308&\$78 0\*+ 3/-3/2: 8  
: /3867) 5\$, ; : /C/ '&7"3M"?6) 7\$ 5-\$>#/0'1 - : /3867) 5\$=" # &\$ 5"267/3'&, '?'
5. O/ 7\$: " (/0'123\$) -"3\$ ' +: \$14 3/\*; ) 5"23/-3/2, '?'
6. F: ' /6&/5&' 78(8 (/0'? '6&)<7; ) 23\$) -"3'?
7. O/ 7\$: " "2)\*; 2\$9: /58? #"4\$&' -#" ) : /&7": 67' (/0'? 23\$) -"3\$?
8. O/ 7\$: " 0"\*"C) 5\$&&+ (/0'? ' +: 5/&/ 58: /3867/5)>7; 6+ 0\*+ /(78#'-\$, '1/23/2: 8 (/0'??
9. F: ' 78(/5' 0'123\$) -"3\$ #/A) 7; 58: \*8: \$78 (/0'1?
10. F: #/A&\$ '&', '<5\$78 : /3867) 5\$, ; : ' (/0'1) JavaScript?