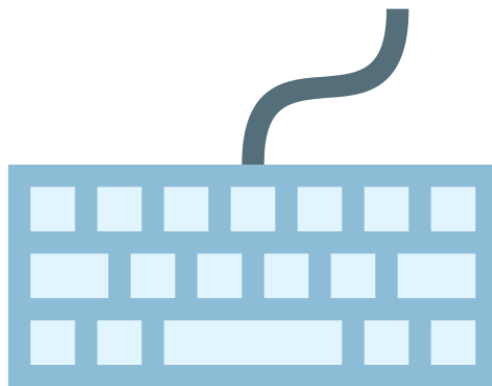


Humthentication Report by iTypedMyPaper



for 92fde5be-162a-4125-8fbf-df1f51e5d8b7 by Billy McIntyre

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What is "Humthentication"?

"Humthentication" is a portmanteau of "human" and "authentication."

Writers can use Humthentication to prove that they have completed a piece of writing manually, without AI generating the text.

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z	63, 64, 79, 63, 88



Key	Times
{	82, 48, 112, 64
}	58, 93, 95, 79, 77

Seek Times (milliseconds):

Key Pair	Times
. -> c	49
. -> ctrl_l	69
. -> s	19, 99, 3
. -> space	227, 111
. -> t	24, 81, 48, 35, 32, 15, 0, 48
, -> ,	184
, -> 2	58, 2886
, -> 4	427, 259, 545
, -> a	78, 110, 113
, -> b	63
, -> backspace	483, 998, 1030, 1062, 1094, 1126, 1158, 1192, 1223, 1255, 1288, 1660 1117, 275
, -> c	81
, -> e	105



Key Pair	Times
, -> f	95
, -> i	96
, -> l	145
, -> r	77
, -> s	3051, 5085
, -> shift	87, 104
, -> space	162, 157, 47, 4152, 353, 107, 181, 16, 48, 31, 272, 48, 112, 113 241, 17, 65, 2414, 83, 606, 175, 159, 15, 250, 1877, 80, 31, 70, 39 1147, 46, 28, 178, 26, 222, 111, 150, 147, 127, 307, 81, 176, 208, 31 175, 96, 30, 161, 284, 124, 114, 66, 381, 74, 47, 63, 97, 95, 47
, -> t	77
- -> -	62, 59, 63, 63, 76
- -> backspace	162
- -> e	250
- -> f	62
- -> m	112
- -> r	0
- -> space	11, 62, 77, 0, 408, 15, 61, 30, 411



Key Pair	Times
- -> u	164
- -> y	192, 226, 144
. ->)	133
. -> 2	105, 430
. -> backspace	1766, 431, 7010, 958, 487, 7442, 479, 7284
. -> ctrl_l	144, 13586, 413, 256, 48
. -> e	6387
. -> enter	992, 484, 3870, 191, 7396, 17606
. -> shift	31, 202, 45
. -> space	160, 177, 287, 257, 96, 193, 113, 7396, 189, 95, 240, 141, 340, 171 207, 16723, 386, 112, 9864, 168, 3286, 113
. -> t	23074
. -> }	152
/ -> i	145, 142, 113, 466
/ -> space	31, 50, 33
0 -> ,	150, 160



Key Pair	Times
0 -> 0	430
0 -> 1	64, 65, 75, 453
0 -> 2	12
0 -> 6	211
1 -> 5	191, 191, 95, 82
1 -> 8	47
1 -> 9	8, 16, 79
1 -> space	268
2 -> .	546, 106
2 -> 0	48, 60, 31, 31, 47, 51, 32
2 -> 1	128
2 -> 6	95
2 -> backspace	33683, 281
2 -> m	192
2 -> space	69, 112



Key Pair	Times
3 -> 8	48
3 -> space	542
4 -> 0	224
4 -> 1	162, 264
4 -> 3	102
4 -> 4	89
5 -> ,	170
5 -> -	63, 16
5 -> 6	48
5 -> a	126
5 -> space	271, 113, 94
6 -> ,	190
6 -> 8	126
6 -> enter	894
8 -> ,	365



Key Pair	Times
8 -> delete	1199
8 -> space	638
9 -> ,	221, 351, 735
9 -> 2	62, 143, 95
= -> =	122
= -> backspace	129, 643, 675, 707, 740, 772, 804, 837, 867, 900, 933, 965, 997 1028, 1061, 1093, 1124, 1172, 1204, 1237, 1269, 1301, 1333, 732
? -> }	436
\\ -> n	186
a -> .	0
a -> b	17, 79, 0
a -> backspace	269, 1015, 272
a -> c	93, 128, 160, 127, 96, 143, 110, 129, 127, 96, 104, 86, 96, 110, 111 113, 177, 134, 101, 128, 95, 108, 144, 95
a -> d	115, 111, 117, 114, 127, 95, 111, 143, 141, 92, 165, 125, 128
a -> e	176, 232, 316
a -> f	31, 64



Key Pair	Times
a -> g	26, 0, 97, 128, 15, 12, 22, 0, 31, 2
a -> h	144, 128, 147, 117, 170, 49, 119, 117, 126, 159, 112
a -> i	175, 164, 180, 159, 186, 30, 16, 184, 111, 210
a -> k	143, 14, 21
a -> l	194, 77, 39, 80, 47, 31, 32, 2, 48, 165, 0, 0, 32, 47, 52, 16, 80 32, 6, 0, 63, 67, 10, 16, 21
a -> m	15, 54, 111
a -> n	64, 16, 64, 92, 31, 15, 15, 31, 322, 5, 15, 65, 15, 17, 32, 63, 15 158, 31, 14, 40, 16, 8, 15, 0, 0, 20, 48, 48, 80, 0, 2, 48, 16, 63, 10 64, 0, 57, 0, 55, 15, 0, 14, 22, 30, 63
a -> o	63
a -> p	149, 127, 52, 30, 143, 0, 61, 0, 80, 80, 80, 13, 47, 48, 0
a -> r	129, 127, 176, 153, 143, 195, 161, 209, 144, 128, 141, 129, 158, 132 96, 54, 95, 36, 64, 71, 77, 34, 30, 37, 130, 118, 115, 130, 157, 143 112, 194, 136, 152, 129, 129, 161, 0, 112, 767, 123, 114, 160, 149 128, 162, 117, 136
a -> s	98, 100, 114, 178, 94, 97, 144, 79, 143, 160, 96, 79, 47, 96, 157 71, 58, 94, 108, 127, 76, 77, 110, 110, 53, 152, 69, 162, 80, 111, 122 161, 75, 112, 81, 112, 115, 159, 143, 64, 81
a -> space	145, 70, 128, 16, 66, 63, 0, 74, 0, 334, 43, 65, 8, 47, 173, 160, 96 112, 145, 32, 51, 33, 6241, 64
a -> t	95, 147, 14, 16, 126, 17, 28, 176, 29, 31, 31, 143, 142, 15, 146 128, 0, 2575, 143, 15, 48, 126, 0, 67, 9, 140, 7, 32, 2, 28, 120, 143 177, 142, 139, 137, 148, 159, 45, 70, 22, 95, 160, 184, 31, 63, 144 15, 23, 49, 0, 0
a -> v	31, 32, 15, 117
a -> y	134, 112, 63, 80, 65



Key Pair	Times
b -> a	129
b -> backspace	578, 1085, 1117, 1149, 1181, 1213, 1245, 1277, 1324, 1356, 1388 1420, 1453, 1485, 1517, 1549, 1581, 1613, 1645, 1677, 1709, 1741, 1774 1804, 1852, 1883, 1915, 1948, 1981, 2012, 2045, 2077, 2109, 2141, 2173 2205, 2237, 2269, 2300, 2332, 274
b -> e	32, 61, 16, 15, 64, 10, 5, 48, 30, 15, 16, 54, 60, 0, 48, 37
b -> i	94
b -> l	177, 785, 31, 112, 96, 31
b -> o	0, 87, 94, 520, 122
b -> r	100
b -> shift	152
b -> space	158, 88
b -> t	123
b -> u	16, 80, 110
b -> y	224, 96, 173, 96, 99, 106, 100, 103, 249
backspace -> (	710
backspace ->)	208
backspace -> ,	192, 366, 177, 672, 117, 143, 149, 158, 258, 328, 237



Key Pair	Times
backspace -> -	81
backspace -> .	319, 675, 773, 145, 129
backspace -> /	897
backspace -> 1	63
backspace -> 2	79
backspace -> 4	303
backspace -> :	248, 3934
backspace -> <	360, 177
backspace -> =	5800
backspace -> a	1514, 4544, 871, 50, 390, 5159, 69, 653, 31, 48, 296, 35914
backspace -> b	193, 193, 240, 175



Key Pair	Times
	77, 73, 150, 86, 478, 400, 913, 946, 978, 1010, 1042, 1074, 1106 1138, 1170, 258, 64, 64, 62, 63, 55, 136, 387, 96, 64, 48, 63, 95, 98 204, 659, 96, 96, 464, 80, 63, 88, 64, 306, 2123, 365, 111, 237, 87 177, 96, 112, 255, 770, 802, 836, 867, 899, 931, 966, 989, 1021, 1052 1100, 1131, 1163, 1195, 1227, 1259, 1291, 1323, 1356, 1388, 1419, 1452 1484, 1516, 1548, 1580, 1629, 192, 138, 80, 64, 146, 64, 63, 64, 113 81, 64, 47, 64, 80, 66, 80, 95, 194, 192, 96, 286, 240, 79, 129, 80 144, 93, 110, 177, 113, 80, 79, 79, 79, 48, 65, 82, 83, 175, 128, 68 80, 75, 611, 81, 206, 64, 63, 62, 65, 256, 81, 79, 80, 82, 62, 63, 64 270, 80, 63, 97, 80, 83, 80, 64, 64, 62, 64, 47, 45, 65, 212, 96, 140 81, 144, 1993, 2509, 2540, 2572, 2604, 2637, 2669, 2701, 178, 94, 85 79, 64, 179, 128, 177, 92, 83, 89, 96, 49, 63, 79, 74, 63, 71, 78, 74 65, 84, 79, 96, 79, 80, 79, 67, 63, 144, 65, 78, 79, 79, 91, 51, 63 69, 66, 65, 60, 63, 194, 389, 148, 88, 64, 58, 59, 160, 81, 68, 58 233, 4934, 64, 50, 52, 47, 213, 201, 113, 85, 79, 65, 13, 65, 95, 103 83, 72, 70, 60, 64, 60, 61, 95, 74, 60, 61, 89, 66, 66, 78, 83, 73, 95 163, 1493, 281, 74, 67, 65, 67, 61, 45, 63, 85, 57, 86, 79, 63, 97, 63 59, 109, 88, 81, 78, 48, 1956, 80, 48, 65, 58, 115, 79, 65, 336, 425 111, 82, 33, 79, 63, 64, 129, 80, 81, 69, 95, 125, 79, 82, 63, 74, 49 68, 47, 208, 64, 100, 63, 63, 64, 48, 47, 71, 79, 48, 52, 64, 212, 54 65, 77, 79, 3183, 3694, 3727, 3759, 3791, 3823, 3855, 3887, 3919, 3952 144, 95, 78, 83, 63, 81, 79, 62, 96, 79, 97, 80, 79, 80, 75, 291, 89 80, 4943, 5456, 5488, 5520, 5553, 5584, 5616, 237, 111, 47, 70, 116 109, 102, 79, 66, 70, 64, 65, 83, 113, 19190, 400, 115, 127, 96, 107 160, 365, 6689, 268, 686, 125, 80, 292, 81, 82, 64, 63, 64, 63, 63, 57 55, 64, 85, 160, 364, 79, 64, 82, 65, 64, 79, 66, 63, 91, 80, 79, 64 6691, 64, 64, 75, 47, 37, 63, 80, 64, 81, 507, 2342, 96, 64, 117, 80 79, 65, 81, 81, 68, 64, 64, 78, 64, 63, 67, 63, 109, 78, 96, 299, 80 63, 72, 94, 82, 1023, 12716, 63, 208, 64, 64, 63, 65, 65, 63, 70, 48 80, 62, 66, 96, 64, 72, 79, 190, 90, 79, 75, 64, 64, 68, 65, 97, 73 77, 81, 66, 47, 44, 48, 64, 284, 80, 796, 1882, 175, 929, 963, 75, 210 207, 63, 191, 5307, 119, 112, 80, 66, 48, 65, 64, 75, 65, 64, 47, 32 79, 65, 65, 70, 64, 4509, 63, 80, 68, 177, 79, 77, 79, 63, 82, 47
backspace -> backspace	
backspace -> c	465, 16, 174, 159, 63, 498, 49
backspace -> ctrl_l	1124, 47, 145, 95, 207, 1724, 0, 476
backspace -> d	403, 1020
backspace -> down	337
backspace -> e	148, 533, 144, 136, 1973, 141, 249, 106, 2485
backspace -> enter	1223, 1687, 529, 367, 368, 23871, 39725, 272, 542



Key Pair	Times
backspace -> f	651, 54, 23, 715, 112
backspace -> g	162, 387, 305
backspace -> i	80, 181, 804, 112, 98, 1591, 1950, 113, 95, 111
backspace -> j	112, 129
backspace -> l	1061, 80, 223, 362, 79, 95
backspace -> left	1640
backspace -> m	144, 562
backspace -> n	159, 147, 433, 420, 195, 159, 111
backspace -> o	129, 96, 226, 238, 627, 511, 93, 96, 288, 68, 63, 121
backspace -> p	74, 401, 143, 142, 855
backspace -> q	238, 127
backspace -> r	47, 31, 60, 479, 29, 0, 59
backspace -> right	1549, 1577
backspace -> s	106, 94, 172, 659, 96, 277, 16, 543, 15, 371, 1119, 127, 80, 86, 15
backspace -> shift	4302, 84, 742, 80, 66, 622, 97, 724, 5077, 15, 15, 136, 48, 44, 127 305, 352, 1527, 79, 128, 48, 4, 1855, 31, 293, 128, 3806, 143, 80



Key Pair	Times
backspace -> space	371, 2434, 96, 194, 677, 111, 387, 31, 461, 90, 421, 827, 5168, 262 64, 162, 185, 3248, 6343, 415, 274, 496, 162, 162, 10529, 95, 16, 243 328, 307, 513, 400, 637, 144, 19098, 80
backspace -> t	66, 15, 173, 190, 107, 48, 86, 143, 175, 372, 18
backspace -> u	127, 2738, 159, 112
backspace -> v	0, 10, 305
backspace -> w	662, 31, 234, 1485, 402
backspace -> y	733, 421, 183
backspace -> z	320, 86
c -> :	127
c -> a	146, 96, 112, 112, 141, 112, 82, 324, 127, 143, 154, 97, 80, 129, 91 120
c -> backspace	255, 271, 264, 397, 129, 225
c -> c	101
c -> ctrl_l	710
c -> e	111, 145, 107, 96, 112, 127, 111, 110, 81, 127, 79, 127, 96, 112 128
c -> h	80, 48, 16, 18, 113, 32, 69, 107, 16, 15, 51, 117, 31, 31, 32, 17, 9 15, 35, 36, 14, 73, 35, 150
c -> i	48, 58, 31, 179, 16, 0, 155, 63, 145



Key Pair	Times
c -> l	35, 97, 193, 190, 13
c -> n	160
c -> o	1, 0, 15, 31, 10, 0, 13, 30, 0
c -> r	94, 131, 129
c -> s	108
c -> shift	79
c -> space	45, 64
c -> t	160, 134, 99, 136, 128, 48, 32, 0, 0, 0, 19, 0, 15, 6, 131, 161, 109 112, 128
c -> u	160, 112, 0, 51, 52, 138, 160, 15, 16, 19
ctrl_l -> <	182
ctrl_l -> <189>	67097, 2580
ctrl_l -> a	104, 285
ctrl_l -> backspace	3457, 4074, 160240, 54944, 4081, 10755, 251, 3054, 158, 60431, 35098
ctrl_l -> ctrl_l	1714, 535, 81, 11288, 3621, 415, 927, 959, 991, 1023, 1055, 1086 1118, 1151, 1183, 1215, 1248, 1280, 1312, 1344, 1392, 1425, 1457, 1489 1520, 1552, 1585, 1617, 1649, 1681, 1714, 1746, 1777, 1809, 1841, 1873 1905, 1953, 1986, 2020, 2051, 2083, 2115, 231073, 67049, 2391, 6914 430, 222, 5280
ctrl_l -> d	170



Key Pair	Times
ctrl_l -> enter	1131, 4057, 432, 15971
ctrl_l -> f	22850
ctrl_l -> i	2865
ctrl_l -> right	2307
ctrl_l -> s	8796, 4490
ctrl_l -> shift	1243364, 8447, 134, 9855, 10356, 10389
ctrl_l -> space	10647, 12034, 638, 9050
ctrl_l -> u	127
ctrl_l -> up	7746
ctrl_l -> w	18468
ctrl_l -> {	10436
ctrl_l -> }	1243488
d -> ,	80, 150
d -> .	56, 378, 67
d -> =	755



Key Pair	Times
d -> ?	163
d -> a	127, 127, 571, 97, 79, 154, 82, 97, 129, 107, 325, 98, 108
d -> backspace	435, 544, 1059, 1090, 1122, 1154, 1186, 1218, 1249, 1281, 1314, 1346 1377, 1409, 1440, 1488, 1521, 1553, 1585, 1616, 1648, 1681, 1713, 1745 1777, 1809, 1841, 1874, 1905, 629, 610, 262, 4983, 579, 895
d -> ctrl_l	7601
d -> d	95, 101, 112
d -> down	213
d -> e	79, 225, 80, 96, 84, 89, 95, 80, 80, 82, 80, 66
d -> enter	112
d -> g	32
d -> i	11, 78, 31, 48, 494, 71, 8, 15, 49, 0, 32
d -> l	143, 135, 145
d -> m	66
d -> n	32, 23, 0
d -> o	5133, 6, 7, 115, 0, 31, 87, 33, 15, 45, 0
d -> r	109



Key Pair	Times
d -> shift	5053, 64
d -> space	15, 32, 0, 0, 594, 94, 98, 39, 0, 80, 0, 0, 48, 157, 128, 598, 75 180, 5822, 69, 15, 31, 34, 7, 82, 143, 178, 15, 90, 47, 200, 15, 15 77, 3, 14, 742, 64, 96, 7, 71, 63, 14, 11, 4, 586
d -> u	63, 14, 32, 16, 19, 15
delete -> backspace	3115
delete -> delete	79, 64, 54, 63, 67, 242, 178
down -> a	392
down -> backspace	188
down -> down	94, 80, 83
down -> enter	195
down -> g	366
down -> left	334
down -> shift	417, 247, 445
down -> space	303, 86242, 414
down -> t	576
e -> !	266



Key Pair	Times
e -> ,	145, 32
e -> ,	142, 34, 70, 91, 92, 93, 3467, 81, 29, 16, 287, 49, 60, 39
e -> -	88, 15, 457
e -> .	192, 145, 146, 214, 201, 158, 64, 112, 32, 85, 273
e -> :	270, 385
e -> a	109, 575, 209, 140, 337, 129, 128, 95, 186, 101, 130, 136, 127, 128 159, 110, 129, 112, 114, 112, 111, 111, 131, 110, 139, 82, 112
e -> b	73
e -> backspace	273, 190, 1735, 36582, 37087, 37119, 37151, 37183, 37215, 37248 37295, 221, 281, 274, 402, 2203, 7350, 7862, 7893, 7926, 7957, 7989 8021, 8053, 8085, 8117, 8148, 8181, 8229, 8261, 8292
e -> c	145, 144, 113, 128, 127, 107, 146, 120, 119, 107, 125, 152, 90, 101 105, 122, 119, 143, 128, 128, 95, 94
e -> d	126, 162, 158, 158, 113, 113, 128, 144, 73, 123, 80, 191, 145, 97 164, 129, 96, 115, 95, 95, 91, 112, 160, 144, 113, 81, 112
e -> down	1582
e -> e	116, 112, 96, 80, 320, 305, 96, 109, 79, 100, 83, 92, 84, 115, 115 112, 47, 95, 65, 88, 129
e -> enter	18527, 91, 278
e -> f	111, 178, 5495, 128
e -> g	96, 193, 96



Key Pair	Times
e -> h	142, 192, 158, 142, 131, 111
e -> i	80, 112, 45, 16, 56, 140, 141, 16, 15, 113, 143, 152, 127, 80, 96 22, 48, 0, 75, 49, 0, 79, 37, 144, 120
e -> j	23
e -> k	175
e -> l	15, 0, 64, 31, 739, 97, 0, 12, 0, 79, 31, 14, 15, 9
e -> m	15, 31, 84, 15, 11, 37, 82, 44, 1, 15, 89, 48, 91, 16, 17, 14, 16 15, 32, 15, 14, 15, 0, 47
e -> n	66, 47, 65, 15, 15, 95, 65, 31, 97, 43, 81, 47, 64, 37, 45, 16, 13 132, 51, 7, 0, 12, 30, 49, 97, 64, 62, 51, 53, 30, 16, 15, 12, 96, 50 0, 15, 47, 0
e -> o	191, 1319, 48, 68, 1
e -> p	80, 100, 118, 124, 0, 77, 80
e -> r	70, 81, 79, 70, 64, 64, 48, 49, 95, 80, 49, 63, 97, 81, 122, 79, 80 53, 79, 80, 67, 77, 95, 64, 47, 32, 46, 117, 79, 227, 48, 130, 69, 80 81, 129, 97, 111, 95, 48, 63, 79, 64, 71, 99, 103, 63, 76, 62, 115, 60 133, 102, 83, 130, 68, 86, 71, 84, 96, 83, 81, 133, 97, 59, 64, 95 160, 95, 96, 64, 64, 91, 68, 128, 65, 95, 91, 96, 64, 47, 95, 96, 131 64, 66, 49, 48, 146, 80, 64, 80, 54, 80, 63
e -> s	129, 128, 118, 78, 213, 160, 146, 135, 124, 129, 143, 144, 113, 95 98, 224, 95, 95, 110, 110, 87, 144, 87, 157, 119, 109, 144, 92, 143 177, 97, 127, 96, 131, 129, 116, 112, 161, 144, 95, 99, 75, 100
e -> shift	5479, 69, 125, 64, 200, 241
e -> space	590, 84, 31, 59, 15, 15, 31, 32, 13, 160, 2665, 49, 29, 46, 31, 45 86, 8, 80, 31, 160, 0, 14856, 31, 9496, 31, 124, 0, 131, 48, 0, 83 1708, 16, 161, 79, 26, 119, 34, 143, 18, 47, 692, 68, 62, 32, 48, 6 161, 20, 0, 32, 31, 5, 126, 132, 6, 48, 33, 12, 48, 0, 0, 21, 9, 30, 3 174, 147, 32, 31, 47, 15, 80, 12, 80, 0, 31, 3152, 79, 80, 16, 205 144, 18, 65, 88, 33, 5, 64, 47, 111, 47, 30, 0, 22, 37, 18, 111, 16 16, 1404, 80, 31, 0, 189, 0, 15



Key Pair	Times
e -> t	80, 192, 208, 147, 155, 107, 93, 1073, 31, 177, 177, 64, 111, 46 144, 111, 161, 104, 113, 14, 96
e -> u	126, 47, 80
e -> v	159, 64, 40, 32, 46, 47, 49, 59, 0, 17
e -> w	207, 80, 96, 123, 99
e -> x	144, 127, 107, 145, 96, 129, 142, 145, 134, 114, 125, 127, 129, 134
e -> y	112, 124, 82, 16, 14, 63, 31, 47
enter -> 9	6596
enter -> a	207, 111, 3478, 20314
enter -> backspace	385, 2594, 3100, 3147, 3183, 3199, 3232, 3264, 3295, 3327, 3359 3392, 3440, 549, 113698
enter -> c	465, 88
enter -> ctrl_l	113, 155
enter -> enter	144, 128, 64, 51, 64, 80, 62, 80, 96, 70, 75, 80, 82, 202, 69, 92 31, 81, 19437, 35, 57, 63
enter -> esc	2188
enter -> h	10434
enter -> i	627, 464



Key Pair	Times
enter -> n	341, 7048, 4009
enter -> p	204, 2176, 359
enter -> s	128, 210
enter -> shift	48, 113, 113, 144, 532, 128, 31, 3399, 2623, 391, 7048, 70, 3978, 95 32, 234, 122
enter -> space	32124
enter -> t	288, 48, 2705
enter -> u	128, 880
enter -> up	210, 18223, 117, 143, 81411
enter -> w	194, 11054, 10427
enter -> {	135
esc -> ctrl_l	994, 15405
f -> a	81, 147, 96, 93
f -> backspace	287, 160
f -> c	121
f -> e	140, 142, 111, 127, 80



Key Pair	Times
f -> i	31, 48, 10, 80, 32, 16, 31, 551, 69
f -> l	179, 178
f -> o	0, 46, 6, 16, 16, 36, 127, 31, 32, 38, 91, 0, 32, 15, 31
f -> p	80
f -> r	110, 79, 84, 95, 82, 96, 101
f -> space	0, 32, 47, 17, 0, 15, 39, 37, 28, 35, 20, 31, 29, 15, 143, 48, 50 43, 66, 32, 15, 47
f -> t	80, 80
f -> u	11, 31
f -> w	192
g -> ,	158, 225, 63, 896, 178, 617, 61
g -> .	207
g -> a	113, 146, 22, 80, 403
g -> backspace	251, 766, 798, 830, 861
g -> down	336
g -> e	41, 0, 108, 148, 0, 173, 110, 63, 31, 54, 40, 16, 161, 64, 15, 0 114, 31, 32, 77, 128, 31



Key Pair	Times
g -> enter	127
g -> h	0, 80, 15, 48, 48, 34, 48, 65, 30, 66, 38, 0, 47, 76
g -> i	158, 13, 80, 95, 61
g -> m	63, 86, 142
g -> n	40, 64, 16, 80, 143, 22, 32, 145, 15
g -> o	74, 111, 47, 96, 16
g -> p	51, 111, 48, 31
g -> r	16, 14, 1, 63
g -> space	15, 48, 31, 79, 36, 95, 32, 68, 58, 2616, 96, 79, 37, 31, 64, 31, 31 58, 62, 65, 11, 129, 96, 79, 4, 162, 32, 72, 862, 47, 32, 63, 100, 253 90, 289, 84, 15, 808, 79, 51, 192, 112, 30, 72
g -> t	128, 110, 104, 94
g -> u	64, 16, 66, 81, 66, 81
h -> ,	190
h -> .	223
h -> <	176
h -> a	47, 81, 78, 47, 65, 75, 17, 96, 63, 48, 83, 11, 32, 63, 79, 80, 31 48, 29, 63, 51, 14, 67, 63, 14, 78, 0, 48, 48, 51, 452, 15, 47, 7, 81 37, 86, 75, 63, 145, 212, 44, 76, 24, 53, 16, 77, 40, 16, 15, 127, 47 16, 48, 45, 16, 16



Key Pair	Times
h -> backspace	387, 894, 926, 958, 992, 1025, 1060, 1095, 1127, 1160, 323, 208, 252
h -> e	96, 0, 47, 64, 114, 64, 15, 33, 46, 64, 63, 10, 47, 15, 31, 5, 95 14, 22, 37, 44, 16, 80, 32, 15, 49, 47, 67, 47, 15, 15, 91, 6, 15, 64 63, 48, 31, 55, 15, 0, 31, 15, 289, 48, 59, 48, 49, 141, 63, 30, 11 32, 15, 7, 48, 16, 57, 64, 31, 95, 80, 21, 32
h -> i	97, 96, 67, 79, 66, 80, 62, 70, 57, 77, 64, 68, 91, 143, 79, 78, 78 48, 70, 83, 112
h -> l	117
h -> m	109
h -> n	116, 113
h -> o	127, 91, 80, 86, 81, 98, 112, 222, 81, 101, 60, 94, 125, 112, 113 133, 103, 80, 110
h -> r	59, 31, 36, 32, 48, 0, 64, 47, 192
h -> s	161, 129, 162, 123, 144, 111, 111
h -> shift	128
h -> space	3373, 5334, 1869, 15, 12, 112, 15, 144, 121, 23, 884, 72, 76, 29 138, 36, 49, 7, 90, 48, 94, 32, 45, 96, 111, 29, 48, 390, 111, 1426 31, 259, 96, 83, 63
h -> t	77, 81, 32, 109, 164, 162, 160, 113
h -> u	66
h -> w	158
h -> y	95, 94, 98



Key Pair	Times
i -> >	283, 145, 239, 158, 158, 127, 149, 174
i -> a	34, 31, 77, 348, 75, 41, 31, 47, 63, 71, 47, 145, 47
i -> backspace	497, 625, 288, 199, 222, 208, 191, 1812
i -> c	0, 0, 31, 97, 15, 84, 143, 15, 54
i -> d	48, 47, 49, 116, 54, 134, 17, 84, 112
i -> e	57, 144, 0, 32, 29, 16, 143, 142, 78, 194, 144, 32, 147, 129
i -> f	79
i -> g	131, 68, 144, 117, 47, 149, 63, 100, 161, 147, 127, 63, 96, 175, 144 15, 109, 122, 158, 104, 103, 125, 128, 128, 110, 145, 144, 112, 146 129, 80, 0, 161, 124, 125, 164, 95
i -> h	78, 80
i -> i	112, 92, 80
i -> k	79, 97, 82, 97, 79, 85
i -> l	108, 96, 128, 111, 129, 111, 111, 111, 80, 128, 96, 99, 177, 123
i -> m	113, 80, 91, 107, 112, 95, 83, 103, 81, 95, 80, 96, 96, 84, 96
i -> n	96, 80, 112, 110, 80, 80, 80, 96, 85, 138, 64, 96, 117, 96, 110, 85 126, 92, 78, 69, 112, 96, 88, 105, 95, 103, 129, 793, 96, 109, 80, 111 111, 67, 81, 94, 81, 96, 94, 98, 80, 80, 89, 77, 82, 81, 99, 95, 79 79, 93, 90, 78, 64, 96, 128, 146, 80, 87, 107, 94, 96, 97, 78, 96, 80 112, 80, 80, 111, 83, 85, 87, 80, 97, 97, 97, 113, 88, 93, 86, 79, 128 114, 121, 85, 95, 78, 114, 80, 110, 95, 85, 417, 96, 112, 112, 95, 96 80, 65, 79, 96



Key Pair	Times
i -> o	63, 79, 63, 48, 64, 61, 48, 68, 64, 95, 80, 64, 66, 64, 52, 48, 63 50, 64, 60, 79, 64
i -> r	99, 112, 0, 5, 48, 48, 31
i -> s	113, 94, 15, 10, 48, 81, 0, 15, 47, 0, 79, 79, 128, 0, 33, 28, 64 16, 11, 15, 84, 16, 14, 0
i -> shift	171, 48, 142, 50, 86, 4, 37, 63
i -> space	177, 69, 193, 46, 118, 0, 127, 0, 42, 80, 596, 15, 28, 33, 17, 112 31, 110, 16, 128, 82, 32, 95, 37, 129, 80, 5885, 41, 130, 16, 63, 95
i -> t	136, 31, 96, 143, 0, 140, 112, 117, 151, 32, 0, 16, 40, 47, 29, 31 31, 26, 64, 34, 48, 32, 113, 126, 94, 157, 95, 32, 15, 48, 0, 48, 146 177, 43, 65, 34, 32, 14, 81, 92, 105, 16, 231, 96, 0, 132, 16, 14, 65 28
i -> u	100, 143
i -> v	65, 71, 64, 0, 50, 97, 6, 16, 0, 15, 8, 15, 17
i -> x	50, 350
j -> backspace	412
j -> o	79, 80
j -> u	74, 48, 65
k -> backspace	173, 788
k -> e	15, 48, 64, 42, 32, 25, 0
k -> i	63



Key Pair	Times
k -> s	63, 95, 152, 41
k -> space	60, 0, 33, 32, 95, 79
 -> ,	1472, 130, 136
 -> a	16, 31, 45, 27, 16, 90, 50, 13, 129, 75, 0, 65, 47, 31
 -> backspace	320, 145, 142, 145, 548
 -> d	40, 32
 -> e	176, 0, 15, 15, 451, 32, 48, 47, 88, 29, 32, 18, 84, 63, 11, 58, 59 77, 0, 50, 16, 18, 32, 106, 16, 79, 31
 -> f	48, 37
 -> i	128, 48, 48, 95, 129, 96, 65, 111, 95, 67, 82, 64, 659, 43, 63, 81 79, 126, 73, 81
 -> j	151
 -> l	1321, 67, 64, 64, 63, 62, 79, 63, 83, 81, 63, 81, 69, 79, 63, 64, 65 65, 112, 62, 79, 64, 64, 84
 -> n	138, 145
 -> o	63, 126, 95, 155, 67, 74, 79, 63
 -> r	193
 -> s	49, 48, 31, 62, 122, 90, 146, 61, 77, 64, 71, 15



Key Pair	Times
 -> space	2394, 118, 64, 60, 142, 16, 63, 78, 31, 15, 52, 81, 0, 37, 160, 45 89, 81, 128, 988, 895, 195, 47, 63, 96, 52, 3, 63
 -> t	109, 0, 64, 35
 -> v	143
 -> w	143
 -> y	130, 159, 113, 115, 80, 135, 16, 185, 81, 98, 142, 154, 95, 20, 117
 -> z	143
left -> backspace	9294
left -> enter	225
left -> left	498
left -> space	336
m -> ,	97
m -> .	111
m -> a	79, 36, 63, 61, 0, 128, 78, 11, 16, 95, 2, 12, 105
m -> b	79, 79, 86, 93, 95, 65, 98
m -> d	160, 145, 111, 109, 158, 144, 143, 177



Key Pair	Times
m -> e	16, 0, 32, 84, 0, 0, 86, 31, 128, 95, 134, 20, 44, 64, 0, 6, 13, 7 42, 31, 39, 19, 0, 52, 148, 400, 31, 15, 31, 13, 15, 15, 14, 0, 15
m -> i	128, 80, 129, 127, 64, 80, 95
m -> o	81, 95, 87, 80, 70, 87, 90, 63, 80, 80, 88, 114, 98, 73, 74, 108, 83 63, 64, 63, 97, 71, 74, 79, 112, 80
m -> p	77, 92, 59
m -> r	160, 139, 145, 160, 122, 109, 122
m -> s	287, 258, 64
m -> space	113, 14, 47, 95, 48, 17, 71, 38, 102, 113, 64, 5867, 60, 175, 110 80, 79, 63
m -> t	127
m -> u	129, 82, 95
m -> y	128, 79, 137, 112, 124, 82, 141
m -> z	96
n -> !	64
n -> ,	170, 193, 193, 176, 195, 4659, 146, 146, 175
n -> ,	91, 417, 128
n -> -	2658



Key Pair	Times
n -> .	191, 175, 134, 384, 157, 353
n -> <	199
n -> a	80, 80, 16, 63, 79, 0, 449, 81, 80, 52, 25, 88, 63
n -> backspace	2525, 175, 271, 170, 361, 179, 127
n -> c	33, 49, 28, 61, 50, 13
n -> ctrl_l	145
n -> d	33, 161, 74, 63, 84, 29, 52, 15, 30, 78, 128, 80, 48, 55, 0, 95, 36 46, 79, 82, 50, 97, 29, 45, 0, 34, 64, 45, 48, 76
n -> e	0, 15, 31, 101, 79, 0, 15, 49, 241, 402, 16, 15, 80, 15, 21, 20, 23 120, 47, 8, 46, 15, 0
n -> f	8, 33, 1170, 390, 165
n -> g	115, 15, 30, 47, 16, 110, 0, 32, 65, 17, 15, 0, 31, 16, 6, 95, 0, 99 0, 98, 175, 97, 97, 0, 32, 0, 31, 14, 0, 47, 0, 48, 0, 80, 31, 15
n -> h	157
n -> i	205, 123, 95, 82, 67, 255, 95, 129, 102, 96, 670, 79, 94, 114, 96 96
n -> j	71
n -> k	80, 84
n -> l	127, 182



Key Pair	Times
n -> left	2120
n -> m	95
n -> n	64
n -> o	107, 123, 112, 119, 96, 97, 107, 207, 146, 78, 96, 79, 83, 93
n -> r	16
n -> s	16, 3075, 161, 144, 16, 31, 0
n -> shift	429, 119, 4338
n -> space	97, 121, 0, 79, 0, 80, 129, 0, 112, 35, 0, 194, 18, 138, 16, 5563, 9 32, 0, 407, 14, 190, 45, 0, 68, 48, 3, 60, 48, 75, 17, 33, 51, 143 642, 2116, 1133, 4046, 114, 16, 7, 47, 37, 940, 560, 48, 66, 28, 1100 31, 32, 48, 615, 96, 224, 47, 15, 126, 194, 516, 5404, 130, 111, 110 16
n -> t	0, 53, 15, 80, 144, 64, 32, 51, 16, 515, 88, 60, 0, 83, 31, 23, 63 64, 160, 80, 32, 15, 109
n -> u	65, 86, 80, 112, 93, 96
n -> y	147, 119, 127
o -> a	113
o -> b	105
o -> backspace	190, 513, 1589, 162, 224, 239, 400
o -> c	32, 32, 58, 65, 47, 47, 113, 47, 32, 0, 48, 46, 34, 142, 15



Key Pair	Times
o -> d	64, 56, 32, 46, 144, 134, 29
o -> e	176, 158, 113, 176, 176, 143, 230, 143, 161, 112, 127
o -> f	16, 0, 16, 0, 15, 14, 3, 159, 0, 36, 0, 33, 21, 60, 80, 113, 0
o -> g	128, 100, 114, 16
o -> h	159
o -> i	94, 48, 95
o -> j	79
o -> k	97, 79, 39, 95, 97, 81
o -> l	71, 179, 97, 96, 126, 105, 89, 80, 65, 79, 96
o -> m	113, 81, 111, 94, 96, 96, 111, 97, 119, 102, 99, 105, 95, 96, 105 145, 79, 111, 77, 70, 79, 89
o -> n	128, 125, 96, 122, 80, 128, 114, 81, 112, 94, 98, 96, 87, 97, 95, 96 96, 126, 113, 160, 160, 112, 126, 114, 112, 95, 80, 99, 96, 131, 119 102, 65, 95, 103, 83, 94, 84, 126, 81, 112, 96, 162, 109, 113, 95, 96 167, 100, 128, 127, 141, 113
o -> o	72, 64, 95, 94, 63, 52, 65, 48, 80, 63, 74, 63, 43
o -> p	81, 48, 84, 128, 112, 96, 80, 80, 59, 82, 83, 79, 60, 111
o -> r	31, 64, 32, 16, 48, 4, 15, 25, 53, 36, 31, 79, 48, 10, 176, 32, 65 32, 10, 0, 32, 0, 25, 31, 187, 47, 88, 158, 54, 48, 31, 111, 77, 55 10, 76, 44
o -> s	48, 48, 47, 0, 2, 0, 31, 47, 90



Key Pair	Times
o -> shift	165
o -> space	3352, 15, 113, 547, 17, 913, 48, 11, 15, 128, 3040, 32, 64, 41, 543 65, 32, 41, 71, 57, 132, 31, 1073, 8, 39, 48, 15, 64, 32, 20, 41, 108 32, 47
o -> t	127, 47, 129, 63, 238, 144, 111, 49, 0, 31, 0, 175, 17, 32, 9, 85 130, 14, 32, 100, 15, 93, 47, 70, 32, 0, 51, 14, 15
o -> u	80, 78, 81, 63, 63, 65, 95, 80, 82, 78, 80, 78, 78, 64, 80, 94, 68 80, 93, 58, 81, 77, 89, 104, 120, 95, 110, 112, 65, 73, 64, 80, 79, 64
o -> v	240, 130, 129, 143, 115, 224, 112, 40, 14
o -> w	64, 213, 47, 63, 15
o -> x	31
o -> y	148
p -> a	111, 147, 60, 0, 4, 151
p -> backspace	209, 987, 137
p -> e	48, 68, 15, 0, 0, 15, 64, 0, 45, 80, 218, 116, 0, 0, 58, 15, 18, 47 43, 53, 75, 44, 16, 10
p -> esc	1029
p -> h	115, 111
p -> i	63, 146, 66, 96, 79, 79, 96
p -> l	66, 64, 47, 96, 80, 83, 64, 51, 74, 92



Key Pair	Times
p -> o	80, 68, 64, 177, 109, 78, 72, 49, 104, 64, 76, 65, 54, 56, 80, 95 79
p -> p	63, 63, 50, 69, 69, 62, 636, 127, 65, 47, 77, 64
p -> r	68, 32, 14, 32, 0, 17, 59, 114, 64, 44, 131, 158, 64, 46, 37
p -> s	49, 134, 158, 45
p -> space	32, 95, 47, 26, 47
p -> t	45, 28, 16, 29, 18, 143, 54, 57
p -> u	126
p -> w	17
p -> y	160, 0, 144
q -> u	68, 58, 24, 0, 0
r -> ,	113, 9
r -> a	100, 127, 125, 112, 112, 302, 127, 127, 148, 0, 17, 0, 0, 0, 0, 137 154, 120, 144, 131, 106, 117, 79, 127, 113, 126
r -> b	157, 161
r -> backspace	561, 578, 337, 246, 753, 780, 827, 859, 891, 924, 955, 987, 1019 1051, 1085, 1118, 1149, 856, 578, 345, 264, 366, 458, 643, 208, 355
r -> c	143



Key Pair	Times
r -> ctrl_l	158, 21133
r -> d	112, 116, 95, 96, 65
r -> down	61
r -> e	81, 82, 80, 56, 96, 129, 128, 64, 96, 112, 146, 128, 111, 80, 89, 96 101, 100, 79, 65, 109, 63, 63, 125, 79, 80, 128, 80, 95, 78, 133, 98 63, 91, 91, 80, 46, 58, 594, 69, 128, 140, 144, 191, 66, 83, 100, 109 122, 55, 65, 111, 92, 63, 80, 77, 114, 128, 79, 64, 78, 76, 144, 63
r -> enter	701, 101
r -> g	31
r -> i	82, 35, 16, 96, 17, 48, 64, 0, 31, 57, 32, 32, 13, 79, 15, 120, 33 116, 98, 128, 16, 0, 15, 33, 16, 15, 273
r -> k	29, 11
r -> l	64, 174, 35
r -> m	128, 64, 0
r -> n	35, 79, 80, 66, 46, 128, 68, 59, 6, 56, 45, 128
r -> o	48, 18, 129, 47, 32, 32, 59, 0, 30, 63, 48, 80, 63, 64, 18, 37, 31 33, 0, 16, 16, 14, 13, 31, 31
r -> p	31, 131, 31
r -> r	95, 62
r -> s	96, 127, 111, 112, 98, 97, 116, 121, 158, 111, 95, 128, 112, 126 101, 153, 144, 161, 146, 191, 168, 145, 117, 150, 108



Key Pair	Times
r -> space	157, 0, 32, 30, 63, 31, 112, 31, 166, 121, 65, 63, 31, 566, 47, 95 14, 48, 143, 45, 173, 15, 144, 0, 76, 16, 1, 42, 495, 17, 31, 0, 36 31, 49, 34, 955, 32, 48, 95, 123, 36, 434, 15, 31, 3997, 116, 0, 31 95, 11, 31, 174, 80, 31, 14, 39, 9, 56
r -> t	96, 139, 127, 80, 81, 78, 81, 57, 91, 97, 63, 128, 80, 68, 137, 82 62, 65, 179, 76, 403, 96
r -> u	15, 137, 79, 33, 24
r -> v	115, 155, 121, 144, 64, 0, 47
r -> y	0, 113
right -> backspace	220, 128
right -> ctrl_l	3288
right -> enter	193
right -> right	80, 79
right -> space	241
s -> ,	88, 48
s -> ,	32, 160, 4871, 48, 47, 15, 17, 158, 38, 161, 557, 27, 71
s -> -	157
s -> .	52, 37, 450, 65, 314, 47, 31, 81, 64, 47
s -> :	900



Key Pair	Times
s -> ?	102
s -> a	101, 95, 111, 97, 96, 96, 109, 100, 174, 112, 49, 94
s -> b	80, 1107, 206
s -> backspace	258, 1302, 400, 914, 946, 978, 1010, 1042, 1074, 1106, 1138, 1170 1202, 1234, 1266, 1298, 1330, 1363, 1411, 1443, 2567, 3080, 3112, 3144 3175, 3207, 3239, 3271, 3303, 1508, 189, 700, 734, 765, 797, 828, 860 892, 923, 954, 986, 1026, 1058, 1089, 1367, 2605, 254, 500
s -> c	114, 128, 111, 107, 145
s -> ctrl_l	109, 205, 1578
s -> e	95, 97, 127, 127, 130, 111, 100, 112, 81, 96, 117, 117, 77, 74, 155 137, 154, 81, 97, 95, 113, 100, 106, 108, 142
s -> enter	140
s -> h	16, 94, 5, 18, 31, 24, 31, 153, 0
s -> i	15, 63, 75, 13, 95, 141, 128, 15, 0, 31, 101, 15, 63, 33, 9, 48, 53 17, 42, 57, 47, 69, 32, 66, 130, 32
s -> l	80, 80, 40
s -> m	144, 129, 15, 63, 31
s -> n	96, 32, 24, 28
s -> o	18, 48, 16, 27, 81, 0, 32, 28, 64, 144, 112, 48, 0, 32, 16, 35, 43 80, 15, 19, 49, 48
s -> p	15, 55, 13, 31, 47, 70, 32



Key Pair	Times
s -> right	292
s -> s	79, 97, 80, 71, 84, 111, 95, 64, 69, 80, 80, 64, 79, 63, 81, 97, 74 111
s -> shift	32, 813, 24
s -> space	63, 64, 31, 64, 7102, 17, 0, 32, 742, 44, 15, 37, 80, 196, 384, 31 32, 96, 81, 16, 79, 31, 15, 166, 269, 28, 18, 14, 95, 1422, 66, 37, 31 49, 47, 15, 163, 203, 50, 96, 79, 68, 48, 46, 15, 32, 32, 33, 113, 53 13, 45, 2015, 121, 47, 0, 15, 750, 110, 36, 66, 162, 79, 32, 1139, 26 16, 48, 16, 290, 272, 63, 2982, 7574, 285, 79, 87, 28, 2845, 304, 32 0, 47, 16, 95, 15, 48, 31, 48, 110
s -> t	63, 141, 76, 127, 144, 131, 176, 160, 70, 0, 49, 95, 48, 160, 112 63, 15, 145, 560, 175, 113
s -> u	14
s -> v	34
s -> w	93
shift -> ,	2528
shift -> ,	118
shift -> .	199
shift -> /	144, 159, 79, 128
shift -> 1	189
shift -> 3	224



Key Pair	Times
shift -> \\	171
shift -> a	149, 80
shift -> backspace	7438, 7951, 7983, 8015, 8048, 8080, 8111, 8144, 8176, 8208, 8241 8273, 8305, 176, 56, 255, 728, 1236, 1268, 1299, 1328, 1367, 1402 1437, 1469, 1502, 1530, 875, 302, 610, 1119, 1150, 1182, 1215, 1247 1278, 1310, 1341, 1389, 1421, 1453, 1485, 1516, 1548, 413, 420
shift -> ctrl_l	266, 263, 100, 95
shift -> d	161
shift -> e	89, 160
shift -> enter	208, 802, 5393, 1257, 177, 126
shift -> h	79, 31
shift -> i	207, 179, 132, 91, 142, 96
shift -> l	134
shift -> n	143, 48, 90, 6001, 144, 79
shift -> o	18, 84, 111, 95, 271, 163
shift -> q	415
shift -> s	166, 180
shift -> shift	442, 2423, 303, 305, 108, 5955, 1242, 193



Key Pair	Times
shift -> space	1013, 44, 49, 7033, 47, 75, 29, 131, 64, 950, 63, 18, 14, 73, 128 150, 32, 31, 112, 369, 4035, 496, 2041, 239, 81, 80
shift -> t	522
shift -> u	0
shift -> w	71, 224, 189
shift -> y	146
shift -> }	205, 337
space -> ,	179, 127, 160, 1005
space -> (	207
space -> -	32, 62, 13, 68, 0, 32, 15, 47
space -> /	98, 0
space -> 2	110, 192, 871, 83, 46, 80
space -> 5	160, 190, 194
space -> 9	572, 239
space -> <	159, 166



Key Pair	Times
space -> a	275, 0, 160, 5398, 32, 32, 31, 898, 819, 77, 0, 15, 372, 11, 7320 79, 64, 97, 2, 80, 64, 0, 418, 428, 662, 125, 64, 4968, 37, 96, 32 241, 0, 47, 143, 100, 0, 32, 1011, 53, 15, 24, 1220, 47, 121, 30, 64 1560, 97, 85, 172, 97, 51, 25, 188, 79, 0, 80, 64, 3997, 81, 128, 1910 64, 111, 15, 26, 53, 70, 57, 31, 48, 65, 30, 48, 16, 82, 45, 161, 64 414, 125, 63, 44, 96
space -> b	47, 129, 5, 5551, 63, 19, 1758, 301, 48, 78, 36, 201, 47, 20, 17, 58 178, 336, 96, 144, 46, 75
space -> backspace	6481, 6997, 7029, 7061, 7094, 7127, 7159, 7192, 7223, 1677, 2192 2224, 2256, 2288, 2320, 2352, 2384, 2416, 2449, 2481, 2514, 626, 399 1653, 336, 2468, 2982, 3014, 3046, 3078, 3110, 3142, 3174, 3206, 3239 3271, 3302, 3335, 3367, 3398, 3430, 3464, 3512, 3544, 3576, 3608, 3640 3672, 3705, 3737, 3770, 3802, 3834, 1971, 548, 1522, 196, 243, 1337 162, 1513, 659, 1962, 5140, 175, 5107, 5621, 5653, 5685, 5717, 5749 5781, 5814, 5846, 5878, 5910, 5943, 5974, 6007, 6040, 569, 349, 12367 241, 2730, 263, 914, 198, 719, 742, 169, 1416, 281, 97, 348, 1636 2143, 2175, 2208, 2241, 2278, 2309, 2341, 2390, 2401, 2440, 2473, 2505 2538, 2570, 2602, 2635, 2667, 1497, 580, 240, 226, 160, 675, 707, 739 771, 802, 834, 866, 898, 929, 962, 2082, 1085, 2159, 2608, 3116, 3147 3179, 3211, 3243, 3275, 3307, 7787, 258, 5176, 5689, 5720, 5752, 5783 5815, 5846, 5879, 1948, 2460, 2492, 2524, 2556, 2588, 2620, 2653, 2685 2717, 949, 2517, 1706, 478, 579, 675, 281, 6785, 2520, 3025, 3057 3090, 3122, 3153, 3185, 3233, 3264, 3296, 736
space -> c	15, 14, 31, 530, 79, 81, 112, 71, 97, 47, 0, 48, 95, 31, 319, 50, 16 237, 0, 92, 1016, 16, 384, 0, 16, 0, 90, 23618, 253, 63, 111, 116, 432 11
space -> ctrl_l	175
space -> d	0, 20, 242, 1323, 29, 28, 18, 31, 438, 0, 39, 1555, 63, 427, 28, 157 39, 47, 16, 213, 47, 0, 37, 285, 2140, 25, 865, 64, 15, 32, 62, 2
space -> down	322
space -> e	617, 273, 49, 78, 4557, 54, 48, 80, 400, 64, 64, 47, 77, 120, 16, 79 63, 95, 19, 2, 32, 32, 664, 118, 15, 74, 76, 48, 37, 47, 303, 27602 2103, 30, 80, 37, 209, 13, 659, 31
space -> f	63, 193, 132, 162, 46, 338, 498, 63, 15, 44, 63, 63, 4, 37, 82, 366 32, 11, 95, 34, 48, 5305, 36, 79, 12, 64, 31
space -> g	48, 839, 63, 592, 94, 3448, 29, 77, 5927, 32, 63, 129, 1429, 207, 42 898, 128, 47, 64, 98
space -> h	169, 96, 90, 115, 79, 66, 100, 154, 0, 47, 15, 117, 95, 194, 145, 79 18, 79, 71, 79, 303, 1521, 12, 69, 90, 16, 31, 128, 61



Key Pair	Times
space -> i	1255, 31, 80, 15, 81, 0, 69, 519, 160, 1107, 7640, 75, 47, 64, 306 105, 243, 48, 128, 80, 435, 320, 96, 92, 14304, 48, 0, 20, 80, 99, 80 133, 18, 0, 99, 112, 16, 172, 143, 31, 191, 178, 127, 146, 47, 72, 224 6723, 730, 32, 71, 512, 254, 127, 192, 38, 129, 77, 46, 271, 64, 32 65, 13, 63, 289, 29, 956, 42, 463, 742, 48, 68, 64, 79
space -> j	902, 0, 0
space -> l	16, 0, 95, 16, 97, 14, 113, 128, 0, 96, 2091, 128, 164, 98, 195, 58 129, 147, 31, 63, 194, 1866, 31, 112, 2222, 15, 45, 515, 0, 160
space -> m	0, 112, 15, 97, 31, 26, 1416, 0, 1465, 15, 4076, 126, 1558, 414, 15 48, 445, 32, 572, 17, 40, 193, 45, 0, 6996, 0, 63, 15, 1493, 257, 15 15, 0, 323, 27, 0, 64, 46
space -> n	5382, 84, 96, 143, 30, 33, 113, 1, 63, 15, 41, 15, 220, 112, 111
space -> o	178, 0, 80, 111, 146, 141, 239, 15, 31, 177, 194, 63, 80, 31, 93 5408, 0, 128, 0, 336, 49, 65, 0, 0, 3, 742, 0, 115, 1068, 161, 72 1296, 2275, 79, 32, 30, 95, 125, 13, 159, 0, 48, 80, 101, 30, 33, 19 97, 31, 257, 64, 15, 58, 108, 79
space -> p	16, 1014, 128, 48, 475, 16, 2129, 0, 664, 160, 64, 50, 1417, 209 132, 223, 642, 48, 402, 435, 15, 115, 161, 59, 81, 56, 0
space -> q	643, 32, 15, 80, 32
space -> r	34, 102, 210, 126, 640, 146, 112, 112, 582, 81, 320, 21, 130, 112 45, 63, 98
space -> right	448
space -> s	63, 80, 2928, 110, 1215, 0, 33, 1545, 128, 64, 268, 1479, 65, 48 1854, 62, 47, 17, 93, 429, 25, 9, 47, 48, 71, 376, 100, 396, 1293, 149 79, 31, 163, 17, 360, 39, 31, 112, 203, 0, 4, 103, 0, 65, 128, 165, 0 867, 24, 722
space -> shift	2815, 5370, 96, 96, 32, 434, 900, 112, 2310, 478, 211, 96, 15, 5311 84, 371, 253, 112, 0, 53, 109, 14304, 0, 15, 41, 62, 33, 120, 15, 80 15, 48, 804, 82, 32, 32, 40, 31, 275, 108, 96, 79, 65, 6673, 606, 0 1413, 416, 1898, 32, 113, 2093, 112, 64, 207, 0, 143, 47, 893, 13, 321 63, 185
space -> space	64, 128, 145, 81, 329, 111, 112, 48, 174, 103, 120, 80, 93, 144



Key Pair	Times
space -> t	315, 32, 387, 178, 2936, 65, 210, 13, 179, 177, 49, 32, 145, 161, 31 80, 16, 48, 2739, 48, 4364, 2358, 79, 63, 27, 662, 103, 63, 59, 223 46, 15, 31, 58, 288, 264, 113, 94, 129, 467, 64, 80, 38, 79, 110, 508 0, 224, 47, 68, 48, 64, 48, 79, 76, 202, 52, 453, 175, 13, 85, 33, 84 189, 2, 0, 64, 44, 17, 1554, 13, 0, 50, 2, 128, 44, 31, 94, 64, 3065 48, 67, 48, 48, 46, 40, 47, 6226, 48, 302, 237, 48, 7601, 95, 208, 386 63, 176, 31, 64, 210, 244, 112, 259, 66, 65, 48, 41, 75, 98, 74, 9, 80 16, 49, 26, 15, 16, 59
space -> u	1782, 144, 159, 87, 87
space -> v	110, 63, 39, 32, 64, 78, 112
space -> w	63, 5499, 251, 127, 18, 54, 986, 48, 79, 536, 98, 45, 0, 0, 15, 654 102, 1164, 15, 15, 52, 80, 100, 67, 80, 0, 223, 1704, 114, 451, 1959 16, 11, 209, 16, 4, 207, 144
space -> x	59
space -> y	31, 4457, 97, 54, 95, 0
space -> z	127
space -> {	257
t -> ,	211, 47, 197
t -> (	214
t -> ,	226, 272, 260, 248
t -> .	1566, 240, 81, 256, 144
t -> <	177
t -> ?	241, 233



Key Pair	Times
t -> a	0, 142, 16, 149, 127, 153, 137, 141, 30, 127, 134, 95, 31
t -> b	96, 114, 96
t -> backspace	290, 803, 835, 867, 899, 931, 963, 995, 1027, 1059, 1090, 1122, 1154 1202, 1234, 1266, 1299, 1331, 1362, 1394, 1426, 1458, 1492, 1522, 1554 1587, 1618, 1650, 1682, 1715, 1763, 1207, 1718, 1750, 1783, 1815, 1847 1879, 1911, 1943, 1975, 2007, 2041, 1574, 2087, 2119, 2151, 2183, 2215 2247, 2278, 2310, 2342, 2375, 2407, 2439, 2471, 2518, 2550, 2582, 2614 2647, 2679, 2711, 2743, 2776, 2808, 2841, 2872, 2905, 2936, 2968, 3000 3032, 3064, 3112, 3143, 3176, 3208, 2512, 3028, 3060, 3092, 3124, 3156 3189, 3221, 3253, 3285, 3317, 3349, 3381, 350, 510, 269, 1047, 244 365, 525, 260
t -> c	112, 135, 112, 157
t -> e	32, 129, 64, 0, 60, 72, 0, 164, 96, 127, 59, 130, 18, 0, 0, 81, 0 111, 97, 111, 0, 0, 98, 49, 139, 169, 96, 90, 142, 114, 15, 95, 31, 70 16, 47, 27, 46, 119, 106, 82, 0, 23, 48, 70, 88, 191, 80, 95, 112, 93 95, 387, 144, 78, 49, 80, 103, 80, 47, 95
t -> enter	198
t -> g	337, 258, 288, 640
t -> h	20, 32, 15, 32, 15, 16, 23, 10, 48, 0, 16, 32, 12, 15, 0, 0, 15, 48 15, 15, 26, 63, 32, 64, 39, 31, 47, 43, 63, 15, 68, 27, 79, 64, 42, 14 64, 25, 0, 0, 63, 14, 148, 16, 12, 52, 64, 28, 32, 0, 12, 9, 32, 0, 49 0, 21, 17, 15, 50, 67, 19, 16, 68, 122, 47, 0, 48, 109, 15, 15, 63 145, 42, 36, 80, 32, 64, 16, 48, 95, 0, 51, 66, 16, 15, 30, 35, 94, 47 0, 48, 14, 0
t -> i	16, 0, 32, 37, 129, 15, 95, 2, 0, 16, 15, 47, 31, 15, 0, 32, 0, 0 15, 90, 15, 102, 70, 11, 75, 52, 111, 31, 0, 0, 138, 45, 57, 29, 47 70, 14, 0, 42, 16, 15, 85, 0
t -> l	52, 197, 175, 218, 130, 129
t -> m	78
t -> n	145, 125, 156



Key Pair	Times
t -> o	0, 46, 31, 34, 98, 177, 160, 63, 32, 31, 33, 15, 31, 15, 47, 15, 15 32, 0, 31, 24, 170, 6, 0, 16, 0, 0, 15, 32, 22, 41, 0, 50
t -> p	126
t -> r	76, 63, 78, 73, 6, 64, 81, 80, 111
t -> s	178, 150, 47, 201, 129, 158, 207, 123, 129, 143, 190
t -> shift	80, 80, 151, 116, 229, 177, 241, 513, 160, 168
t -> space	47, 1779, 64, 513, 81, 28, 265, 31, 109, 19, 15, 31, 36, 48, 94 1644, 120, 77, 107, 14, 64, 63, 64, 98, 98, 68, 32, 57, 35, 16, 17, 31 64, 1615, 76, 49, 32, 192, 61, 48, 15, 115, 9, 894, 32, 15, 421, 66 123, 48, 367, 0, 96, 55, 31, 15, 31, 112, 16, 7433, 64, 0, 31, 15, 79 111
t -> t	80, 63, 95, 126, 78, 79, 100, 79
t -> u	4, 16, 129, 67
t -> v	139, 96, 112, 139
t -> w	356, 156, 115, 208, 60
t -> y	95, 92, 111
u -> a	14, 2, 17, 15, 0, 26, 0, 173
u -> b	487, 83
u -> backspace	1037
u -> c	64, 51, 32, 72, 280, 17



Key Pair	Times
u -> e	42, 160, 163, 80, 111
u -> g	95, 16, 16, 31, 15, 32, 32, 49
u -> h	130
u -> i	205, 133, 76, 80, 119, 112
u -> l	115, 145
u -> m	127, 110, 80, 79, 96, 102, 103, 97, 96, 98, 111
u -> n	82, 102, 113, 270, 96, 109, 112, 102, 144
u -> o	100, 76
u -> p	114, 145, 115, 112, 145
u -> r	0, 21, 0, 16, 14, 149, 92, 93, 36, 32, 15, 16, 32, 14, 73, 77, 67 31
u -> s	45, 6, 741, 117, 65, 16, 47, 20, 66, 28, 46, 32, 35, 63
u -> space	111, 21, 80, 0
u -> t	31, 0, 166, 48, 80, 64, 126, 6, 81, 98, 80, 0
up -> ctrl_l	318
up -> down	578, 592



Key Pair	Times
up -> enter	1781, 978
up -> s	11646
up -> shift	11614, 303
up -> up	80, 90, 2178, 96, 662, 69
up -> {	444
v -> backspace	142, 262
v -> c	177
v -> e	32, 31, 31, 31, 137, 111, 47, 1332, 96, 161, 111, 49, 95, 129, 142 112, 104, 16, 55, 187, 125, 9, 42, 112, 111, 162, 161, 31, 112, 47 112, 95, 91, 81, 104, 112, 144, 65, 75, 132, 17, 66, 114, 17
v -> i	0, 80, 63, 48, 47, 64, 17
v -> o	32, 3
v -> space	145, 159, 153, 100
v -> w	161
w -> a	111, 96, 112, 95, 63, 131, 106, 96, 161, 94
w -> e	113, 176, 47, 78, 127, 95, 106
w -> h	48, 0, 82, 16, 47, 111, 44, 0, 44, 13, 28



Key Pair	Times
w -> i	79, 0, 82, 15, 0, 0, 31, 32
w -> l	100, 117
w -> n	15, 27, 87
w -> o	38, 0, 79, 19
w -> r	113, 160, 86, 126, 126, 129, 145, 127, 159, 91, 98, 112, 86, 110 128, 73, 134, 80
w -> s	96, 95, 160
w -> space	49, 78, 73
x -> -	62
x -> a	118
x -> backspace	163, 719
x -> c	98
x -> i	15
x -> p	17, 432, 0
x -> t	0, 160, 16, 21
y -> ,	32



Key Pair	Times
y -> .	125
y -> ?	192
y -> backspace	688, 2566, 460, 500
y -> e	1394, 32, 0, 0, 0
y -> f	63
y -> o	0, 127, 0, 130
y -> p	63, 47, 130
y -> shift	64
y -> space	158, 68, 112, 31, 155, 32, 96, 64, 17, 36, 242, 32, 1037, 80, 142 1771, 7, 26403, 27, 31, 18, 16, 15, 111, 100, 32, 96, 66, 95, 48, 64 0, 96, 69, 462, 32, 143, 39, 144, 47, 64, 97
y -> t	80, 79
y -> u	161
y -> w	339, 79, 81
z -> e	176, 168
z -> i	35, 47
z -> o	29



Key Pair	Times
{ -> a	147



Reconstructed Text:

Although the fact remains that only the creators of language models can place and detect watermarks in generated text.

Social interaction is a process of constant experimentation. There is no reprieve. Every time you greet someone, you are sending out and receiving signals that, like it or not, will shape your *next* greeting. The same is true for the greeting after that, for every greeting, for every interaction.

Some people are slower to integrate these signals

As a freelance writer, I earned my living by sending out and receiving signals primarily, both through spoken conversation and through text. I learned that in interviewing interviews, I tended to get better outcomes by adopting an encouraging tone. The interview was a conversation, but it was a conversation about a specific topic: the other person!

(This is a good lesson to carry over into conversation in general, generally that aren't strictly interviews, because it optimizes for getting a perspective other than your own.)

Another lesson that I learned isn't so generally applicable and I learned it much less consciously. Over time, I took on more writing and said 'yes' to more types of projects. I opted not to specialize, scheduling projects for ghostwriting, signing contracts for ghostwriting and copywriting, and the more I wrote, the more I used the em dash.

Across

print('Total Em Dashes: do this

20,415 documents, made up of 92.2 million characters, I used threeFrom Q1 2015, when I found my first work as a freelance writer, to Q3 2019, by which time I was earning well over six figures income, times as many em dashes relative to the total number of characters that I type

I typed more than 92.2 million characters, across 20,415 documents, and 56,268 were em dashes. Here is how they progression breaks down:

As you can see

{Add links to GitHub CSVs here: number of em dashes by month / by quarter number of documents - number of total characters - number of each character / with and without substring 'Tagline'}That's a steep curve Unfortunately, I wasn't journaling much during this period, so I didn't preserve the exact thought process that led to this fairly steady upward

This trend would not be all that interesting, except for the fact that over the last two years, the em dash has taken on a special place in discourse around large language models. According to some people, the em dash is a *sign* that something has been generated by a machine, rather than written by a human.

{Add quotes supporting this claim -- proportion of em dashes do

It's of note, given the 'ChatGPT hyphen,' as I am told some Zoomers call the em dash, will not forever be a calling card for language models, any more than the six-fingered hand just even has all but disappeared from generative image models. Because the goal of a language model is to reflect our language, in truth and aspiration alike, the its own chart -- on a compressed timescale, because it seems to be getting its writing chops over a five-year period instead of a ten-year one -- may even resemble my own. In 2019, after using progressively more em dashes for four years, I started to use less.

Why?

Unfortunately, I wasn't journaling much during this time. I spent my writing hours on ghostwritten memoirs, other



people's memoirs, their businesses' whitepapers, and their one-minute startup pitches. their products' documenta was spending I remember thinking -- roughly -- that em dashes didn't have the same <i>oomph</i> they once did. Between 2015 and 2019, they seemed to add a punch to my writing that led to smoother client interactions. had They felt bland over time. Less intriguing than fragments.appappositive They weren't as fun for me to read during edits as other mechanisfu: chat use an appositive inuse the word appositive in an appositive appositives, a mechanism I fell in love with during high school and gave up during collegenother tool I started to favor more.eris blander comparative of bland what is the quote about exponential just being half of a parabola or something who said this?

Perhaps in another ten years (or again, for ChatGPT, in another five) the old rule will hold true: <i>an exponential curve is just half of a parabola on a logarithmic scale</i>.

ChatGPT and I may switch places ad infinitum, it insisting on the em dash at all the times that even I insist on cuttiapproximately, and vice vers Whatever this social interaction comes to look like, it seems that the em dash is destined to play some ro,21wr

fewer{what chart?} {why is it being a 5-year period significant? how is it a 5-year p44006

Note: text that has been reconstructed from keystrokes will not match the final text exactly for a variety of reasons. For example, if the writer writes one paragraph and then writes another above it, or if the writer highlights and then deletes a segment of text, or if the writer writes inside a document already containing text and then doesn't merge Humthentication sessions.



Submitted Text:

I Got Fine-Tuned to Use More Emdashes Too

Social interaction is a process of constant experimentation. There is no reprieve. Every time you greet someone, you are sending out and receiving signals that, like it or not, will shape your *<i>next</i>* greeting. The same is true for the greeting after that, for every greeting, for every interaction.

As a freelance writer, I earned my living by sending out and receiving signals primarily, both through interviews and through text. I learned that during interviews, I tended to get better outcomes by adopting an encouraging tone. The interview was a conversation, but it was a conversation about a specific topic: the other person!

(This is a good lesson to apply generally into conversations, even ones that aren't strictly interviews, because it optimizes for getting a perspective other than your own.)

Another lesson that I learned isn't so generally applicable and I learned it much less consciously. Over time, I took on more writing and said "yes" to more types of projects. I opted not to specialize, signing contracts for ghostwriting and copywriting, and the more I wrote, the more I used the em dash.

From Q1 2015, when I found my first work as a freelance writer, to Q3 2019, by which time I was earning well over six figures income, I used three times as many em dashes relative to the total number of characters that I typed.

I typed more than 92,218,438 characters, across 20,415 documents, and 56,268 were em dashes. Here is how they progression breaks down:

{Add links to GitHub CSVs here: by month / by quarter number of documents – number of total characters – number of each character – proportion of em dashes}

That's a fairly steady upward curve!

This trend would not be all that interesting, except for the fact that over the last two years, the em dash has taken on a special place in discourse around large language models. According to some people, the em dash is a *<i>sign</i>* that something has been generated by a machine, rather than written by a human.

{Add quotes supporting this claim. ChatGPT's Em Dash Habit: A Training Artifact or Design Choice? - Community - OpenAI Developer Community }

The "ChatGPT hyphen," as I am told some Zoomers call the em dash, will not forever be a calling card for generative language models, just as the seven-fingered hand has all but disappeared from generative image models. Its own chart {what chart?} – on a compressed timescale, because it seems to be getting its writing chops over a five-year period instead of a ten-year one {why is it being a 5-year period significant? How is it a 5-year period?} – may even resemble my own. In 2019, after using progressively more em dashes for four years, I started to use fewer.

Why?

Unfortunately, I wasn't journaling much during this time. I was spending my writing hours on other people's memoirs, their businesses' whitepapers, their products' documentations, and their one-minute startup pitches. I remember thinking – roughly – that em dashes didn't have the same *<i>oomph</i>* they once did. Between 2015 and 2019, they had seemed to add a punch to my writing that led to smoother client interactions. They felt blander over time. Less intriguing than fragments. They weren't as fun for me to read during edits as appositives, another tool I started to favor more.

Perhaps in another ten years the old rule will hold true: *<i>an exponential curve is just half of a parabola on a logarithmic scale</i>*. ChatGPT and I may even switch places ad infinitum, it insisting on the em dash at approximately all the times that I insist on cutting it out, and vice versa. Whatever this social interaction comes to



look like, it seems that the em dash is destined to play some role.



Where can I learn more?

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