DIGRAFID (120-220 letters)

A fractionated cipher using a tableau in which both alphabets are mixed. The plaintext is divided into digraphs, and the digraphs are written in groups, the number of digraphs in each group being the period of the cipher. Each digraph has a unique 3-digit number from the tableau and these are written vertically under the corresponding digraph. The 3-digit numbers are fractionated (as in a Trifid) and the new 3-digit numbers are put through the tableau to get the ciphertext digraphs. The first letter of the digraph is found in the horizontal alphabet, the second in the vertical, and the intersection number is placed between them.

```
1 2 3 4 5 6 7 8 9
K E Y W O R D A B 1 2 3
C F G H I J L M N 4 5 6
P Q S T U V X Z # 7 8 9
                  v d p 1
                  e f q 2
                  r g s 3
                  t h u 4
                  i j w 5
                  c k x 6
                  a m y 7
                  l n z 8
                  b o # 9
```

pt: This is the forest pri

pt (with fractionation 3*):

```
    Th Is Is    Th Ef Or    Es Tp Ri
    4  5  5     4  2  5      2  4  6
    8  6  6     8  2  1      3  9  1
    4  3  3     4  2  3      3  1  5
CT: Hj Mx Ws    Wj Ad Wg     Fc Sp Yi        CT: HJMXWS WJADWG FCSPYI.
```

pt (with fractionation 4**):

```
    Th Is Is Th    Ef Or Es Tp    Ri
    4  5  5  4     2  5  2  4     6
    8  6  6  8     2  1  3  9     1
    4  3  3  4     2  3  3  1     5
CT: Hj Tk Vh Yu    Ff Wd Sq Yp    Ri        CT: HJTKVHYU FFWDSQYP RI.
```

*Fractionation 3 means 3 pairs of letters/6 letters.
** Fractionation 4 means 4 pairs of letters/8 letters.