# The Vigenère Tableau

The following is the tableau used for the Vigenère, Beaufort, and variant Beaufort ciphers.

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| B | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A |
| C | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B |
| D | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C |
| E | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | D |
| F | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F |
| G | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G |
| H | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H |
| I | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I |
| J | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J |
| K | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J | K |
| L | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J | K | L |
| M | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J | K | L | M |
| N | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J | K | L | M | N |
| O | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J | K | L | M | N | O |
| P | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | E | F | G | H | I | J | K | L | M | N | O | P |
| Q | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| R | R | S | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
| S | S | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| T | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
| U | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
| V | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
| W | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V |
| X | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W |
| Y | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
| Z | Z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y |

## Vigenère

The leftmost column has the keys; the top alphabet has the plaintext. So:

```
message HELLOWORLD
key     ECSECSECSE
cipher  LGDPQOSTHD
```

## Beaufort

Find the plaintext in the left alphabet, and trace in until you find the key letter. Then turn a right angle and go up. The letter at the top alphabet is the ciphertext.

```
message HELLOWORLD
key     ECSECSECSE
cipher  WYHSOWPLHB
```

## Variant Beaufort

Find the key letter in the left alphabet, and trace in until you find the plaintext letter. Then turn a right angle and go up. The letter at the top alphabet is the ciphertext.

```
message HELLOWORLD
key     ECSECSECSE
cipher  DCTHMEKPTZ
```