

The Ferguson Undecipherable Code  
aka the FUNCode

A **code** is a set of symbols with a special set of rules for their use, to represent letters and or numbers, used for the sake of brevity or secrecy.

To **encode** is to convert something into its coded form.

To **decode** is to convert something out of its coded form.

This highly secretive code is a **5 bit binary code**, meaning that it uses only 1's and 0's, and exactly 5 digits. Every letter to be used is translated as shown in the table below. The first two digits come from the **row** that the character is in, while the remaining three characters come from the **column** that the character is in.

	<b>000</b>	<b>001</b>	<b>010</b>	<b>011</b>	<b>100</b>	<b>101</b>	<b>110</b>	<b>111</b>
<b>00</b>	<b>A-0</b>	<b>E-1</b>	<b>I-2</b>	<b>M-3</b>	<b>Q-4</b>	<b>U-5</b>	<b>Y-6</b>	<b>!-7</b>
<b>01</b>	<b>B-8</b>	<b>F-9</b>	<b>J-10</b>	<b>N-11</b>	<b>R-12</b>	<b>V-13</b>	<b>Z-14</b>	<b>, -15</b>
<b>10</b>	<b>C-16</b>	<b>G-17</b>	<b>K-18</b>	<b>O-19</b>	<b>S-20</b>	<b>W-21</b>	<b>. -22</b>	<b>'-23</b>
<b>11</b>	<b>D-24</b>	<b>H-25</b>	<b>L-26</b>	<b>P-27</b>	<b>T-28</b>	<b>X-29</b>	<b>? -30</b>	<b>; -31</b>

For example, the letter S is in the third row, fifth column, so S is represented by 10100.

The word MATH would be 00011 00000 11100 11001

Note the importance of spaces between letters in the word. New words are shown on a new line.

Despite the obvious awesome power of the FUNCode, it does also have some limitations. What changes could be made to improve this code, and how would the code itself have to change?