

Ascii "Secret Agent" Challenge

Task 1: Complete the Binary-to-ASCII table

Fill in the decimal and binary value for each ascii character --- some have already been done for you:

| Ascii | Dec | Binary |
|-------|-----|-----------|
| A | 65 | 0100 0001 |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |
| G | | |
| H | | |
| I | 73 | 0100 1001 |
| J | | |
| K | | |
| L | | |
| M | | |
| N | | |
| O | | |
| P | | |
| Q | 81 | 0101 0001 |
| R | | |
| S | | |
| T | | |
| U | | |
| V | | |
| W | | |
| X | | |
| Y | | |
| Z | 90 | 0101 1010 |

| Ascii | Dec | Binary |
|-------|-----|-----------|
| a | 97 | 0110 0001 |
| b | | |
| c | | |
| d | | |
| e | | |
| f | | |
| g | | |
| h | | |
| i | 105 | 0110 1001 |
| j | | |
| k | | |
| l | | |
| m | | |
| n | | |
| o | | |
| p | | |
| q | 113 | 0111 0001 |
| r | | |
| s | | |
| t | | |
| u | | |
| v | | |
| w | | |
| x | | |
| y | | |
| z | 122 | 0111 1010 |

| | | |
|-------|----|-----------|
| space | 32 | 0010 0000 |
|-------|----|-----------|

| | | |
|---|----|-----------|
| . | 46 | 0010 1110 |
|---|----|-----------|

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Task 2: Binary decoding challenge

Challenge 1

Use your completed ascii table to decipher the following message:

| | | | | |
|-----------|-----------|-----------|-----------|----------|
| 0100 0001 | 0111 0000 | 0111 0000 | 0110 1100 | 01100101 |
| | | | | |

Hint: Decode the message to find a fruit.

Challenge 2

Use your completed ascii table to decipher the following message:

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 0101 0011 | 0110 1110 | 0110 0001 | 0110 1011 | 0110 0101 |
| | | | | |

Hint: Decode the message to find a slippery animal.

Challenge 3

Use your completed ascii table to decipher the following message:

| | | | |
|-----------|-----------|-----------|-----------|
| 0100 0011 | 0110 0001 | 0110 1011 | 0110 0101 |
| | | | |

Clue: I'm a sweet treat, round and baked.

Challenge 4

Use your completed ascii table to decipher the following message:

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 0100 1001 | 0110 1101 | 0110 0001 | 0110 0111 | 0110 0101 |
| | | | | |

Challenge 5

Use your completed ascii table to decipher the following message:

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 0100 1001 | 0110 1110 | 0111 0000 | 0111 0101 | 0111 0100 |
| | | | | |

Task 3: The final escape

Gather the five decoded words and discover the hidden password by taking the first letter of each answer.

Password:

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

Bonus task:

Use your completed ascii table to create a secret message for your classmates to decode. Use an extra sheet if necessary.

| | | | | | | |
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