



Reading and Writing CSV Files: Exercises

Q1) Write a program that reads in `colours_20_simple.csv` and output the colour data.

Input	Output
<code>colours_20.csv</code>	RGB HEX English 190-189-127 #BEBD7F Green beige 194-176-120 #C2B078 Beige 198-166-100 #C6A664 Sand yellow 229-190-001 #E5BE01 Signal yellow 205-164-052 #CDA434 Golden yellow 169-131-007 #A98307 Honey yellow 228-160-016 #E4A010 Maize yellow 220-156-000 #DC9D00 Daffodil yellow 138-102-066 #8A6642 Brown beige 199-180-070 #C7B446 Lemon yellow 234-230-202 #EAE6CA Oyster white 225-204-079 #E1CC4F Ivory 230-214-144 #E6D690 Light ivory 237-255-033 #EDFF21 Sulfur yellow 245-208-051 #F5D033 Saffron yellow 248-243-053 #F8F32B Zinc yellow 158-151-100 #9E9764 Grey beige 153-153-080 #999950 Olive yellow 250-210-001 #FAD201 Traffic yellow

Q2) Write a program that reads in `colours_20_simple.csv` and outputs the colour data in order English, Hex then RGB.

Input	Output
<code>colours_20.csv</code>	Green beige, Hex: #BEBD7F, RGB: 190-189-127 Beige, Hex: #C2B078, RGB: 194-176-120 Sand yellow, Hex: #C6A664, RGB: 198-166-100 Signal yellow, Hex: #E5BE01, RGB: 229-190-001 Golden yellow, Hex: #CDA434, RGB: 205-164-052 Honey yellow, Hex: #A98307, RGB: 169-131-007 Maize yellow, Hex: #E4A010, RGB: 228-160-016 Daffodil yellow, Hex: #DC9D00, RGB: 220-156-000 Brown beige, Hex: #8A6642, RGB: 138-102-066 Lemon yellow, Hex: #C7B446, RGB: 199-180-070 Oyster white, Hex: #EAE6CA, RGB: 234-230-202 Ivory, Hex: #E1CC4F, RGB: 225-204-079 Light ivory, Hex: #E6D690, RGB: 230-214-144 Sulfur yellow, Hex: #EDFF21, RGB: 237-255-033 Saffron yellow, Hex: #F5D033, RGB: 245-208-051 Zinc yellow, Hex: #F8F32B, RGB: 248-243-053 Grey beige, Hex: #9E9764, RGB: 158-151-100 Olive yellow, Hex: #999950, RGB: 153-153-080 Traffic yellow, Hex: #FAD201, RGB: 250-210-001

Q3) Write a program that reads in colours_20.csv and output the colour data in order English, Hex then RGB.

Input	Output
colours_20.csv	Green beige, Hex: #BEBD7F, RGB: 190-189-127 Beige, Hex: #C2B078, RGB: 194-176-120 Sand yellow, Hex: #C6A664, RGB: 198-166-100 Signal yellow, Hex: #E5BE01, RGB: 229-190-001 Golden yellow, Hex: #CDA434, RGB: 205-164-052 Honey yellow, Hex: #A98307, RGB: 169-131-007 Maize yellow, Hex: #E4A010, RGB: 228-160-016 Daffodil yellow, Hex: #DC9D00, RGB: 220-156-000 Brown beige, Hex: #8A6642, RGB: 138-102-066 Lemon yellow, Hex: #C7B446, RGB: 199-180-070 Oyster white, Hex: #EAE6CA, RGB: 234-230-202 Ivory, Hex: #E1CC4F, RGB: 225-204-079 Light ivory, Hex: #E6D690, RGB: 230-214-144 Sulfur yellow, Hex: #EDFF21, RGB: 237-255-033 Saffron yellow, Hex: #F5D033, RGB: 245-208-051 Zinc yellow, Hex: #F8F32B, RGB: 248-243-053 Grey beige, Hex: #9E9764, RGB: 158-151-100 Olive yellow, Hex: #999950, RGB: 153-153-080 Traffic yellow, Hex: #FAD201, RGB: 250-210-001

Q4) Using the same colour csv files, write a program that outputs the number of times each of the following colours appear in the English Name:

- red
- green
- blue

Input	Output
colours_20.csv	Red: 0 Green: 0 Blue: 0 Yellow: 12
colours_213.csv	Red: 21 Green: 30 Blue: 25 Yellow: 19

Q5) galaxies.py contains data about 82 different galaxies and their velocities (km/sec). Using this data, output the galaxy with the slowest velocity, and the galaxy with the highest velocity.

Input	Output
galaxies.csv	Galaxy 1 has the min velocity of 9172km/sec. Galaxy 82 has the max velocity of 34279km/sec.