

AVĂDĂNEI ANTONIA
GRUPA 333

TEMA 1-REZULTATE

a) Mozaicurile obtinute pentru modul de aranjare 'caroaj' pentru imaginile din directorul '.../data/imaginiTest/' sunt urmatoarele:

- Adams.jpg
 - 25 imagini pe orizontala



- 50 imagini pe orizontala



- 75 imagini pe orizontala



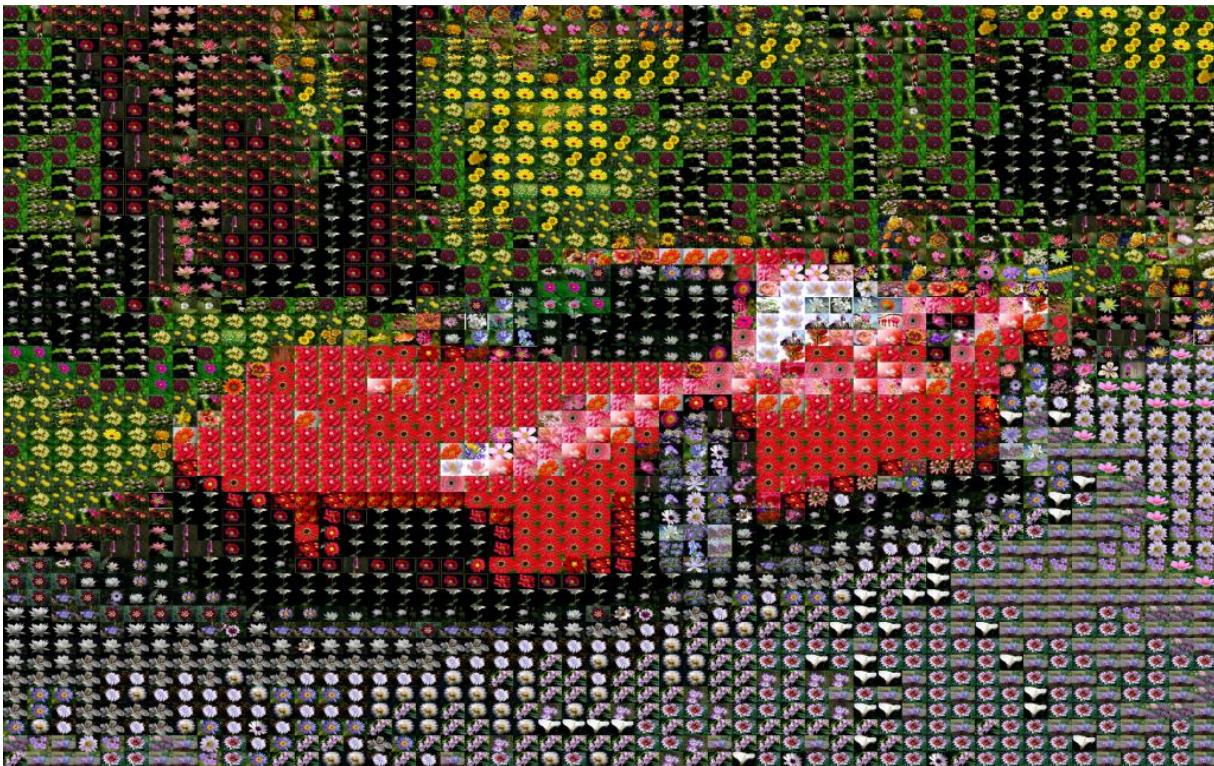
- 100 imagini pe orizontala



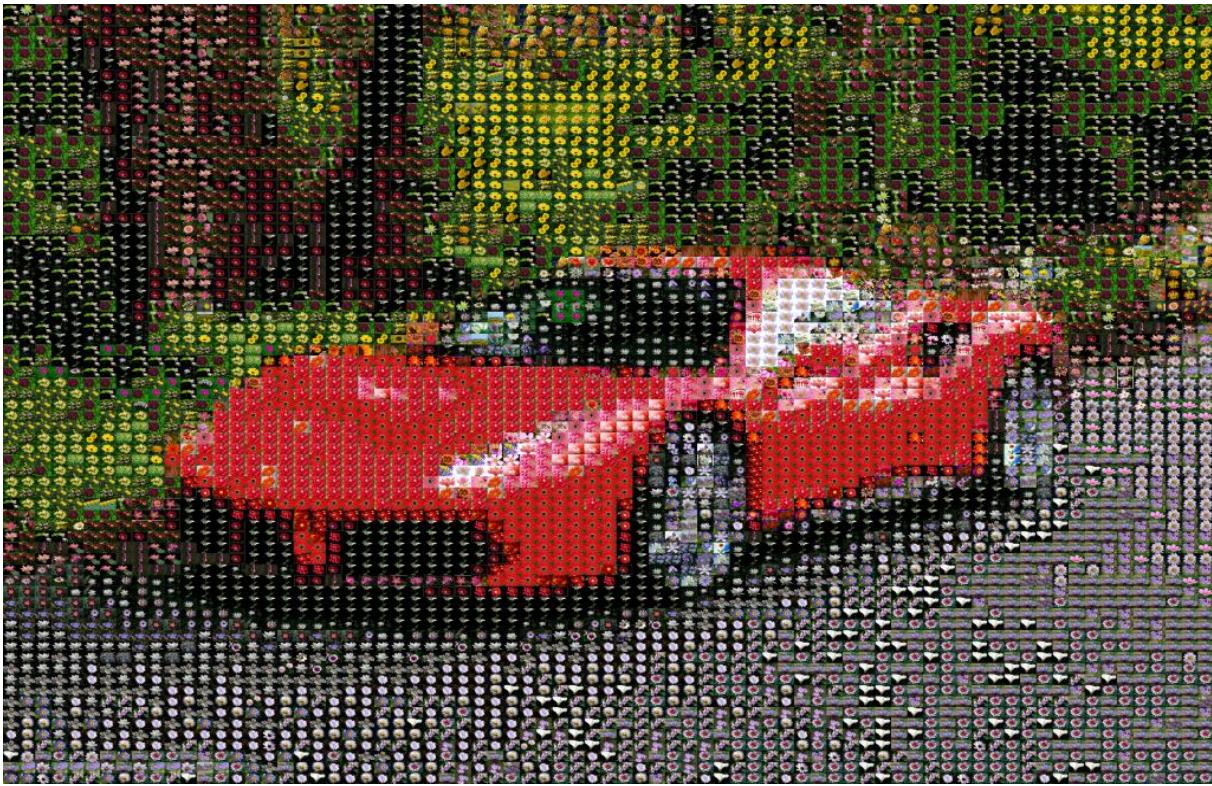
- Ferrari.jpeg
 - 25 imagini pe orizontala



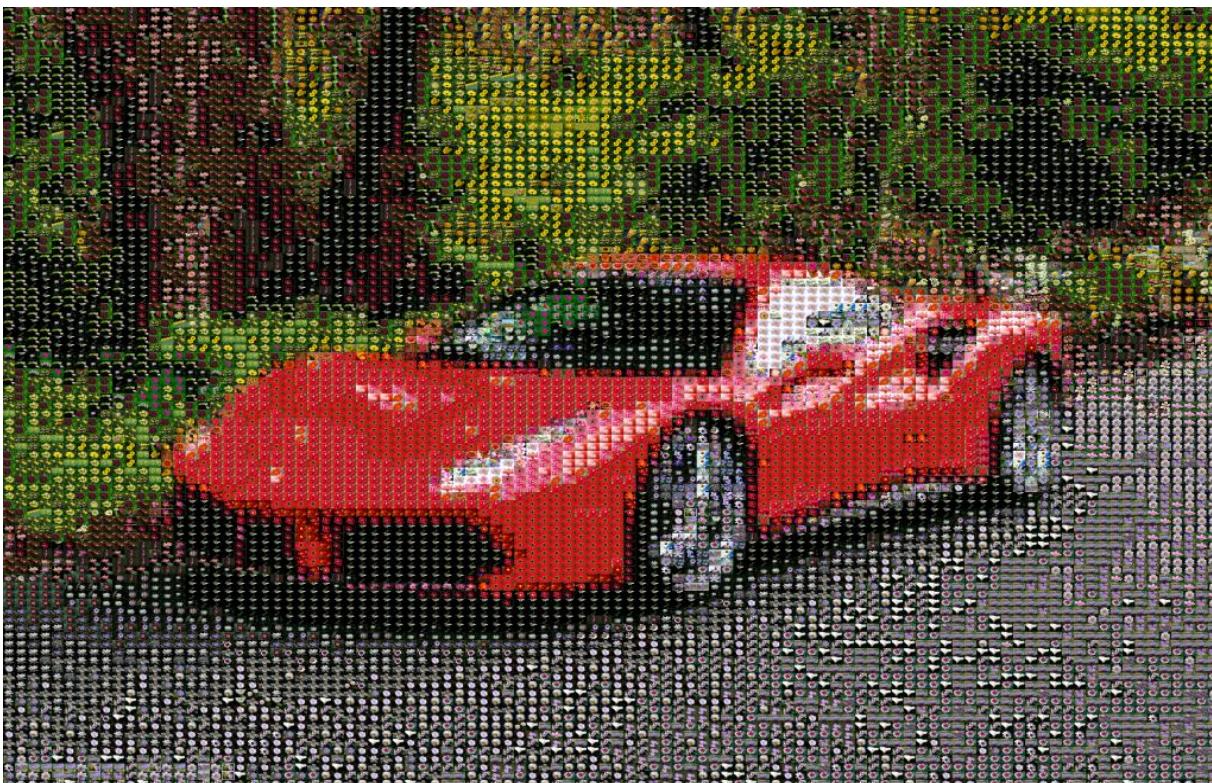
- 50 imagini pe orizontala



- 75 imagini pe orizontala



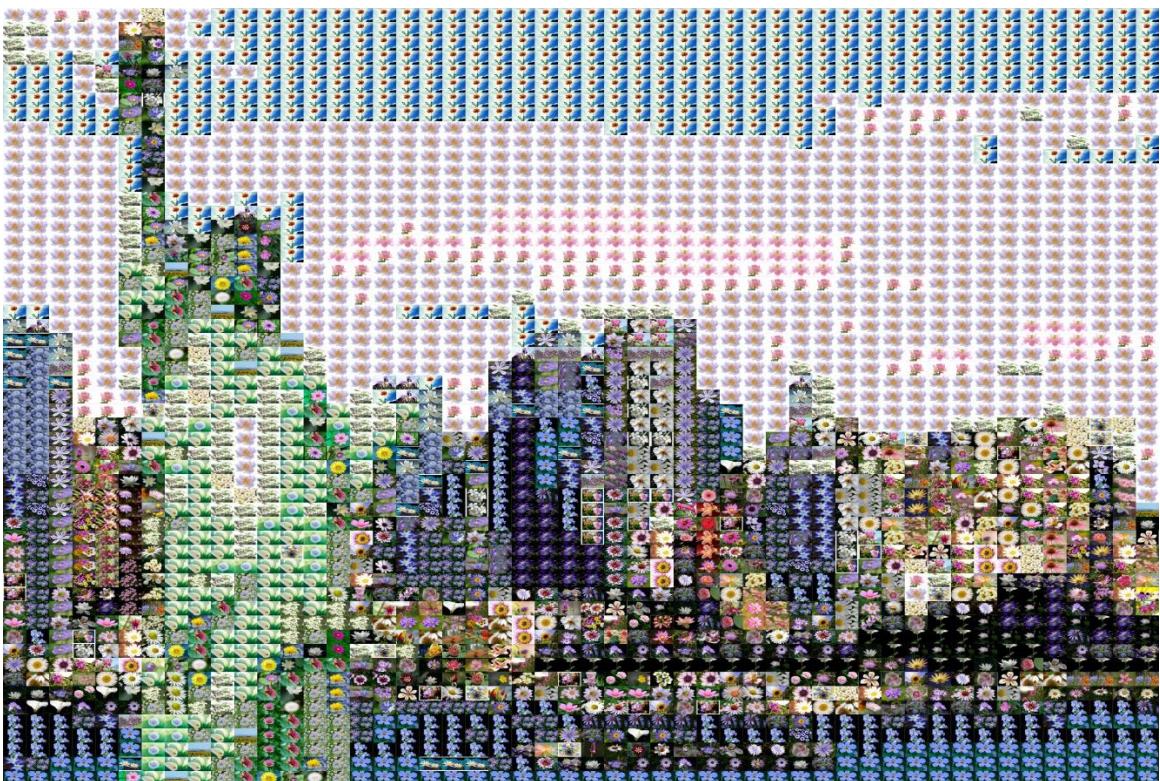
- 100 imagini pe orizontala



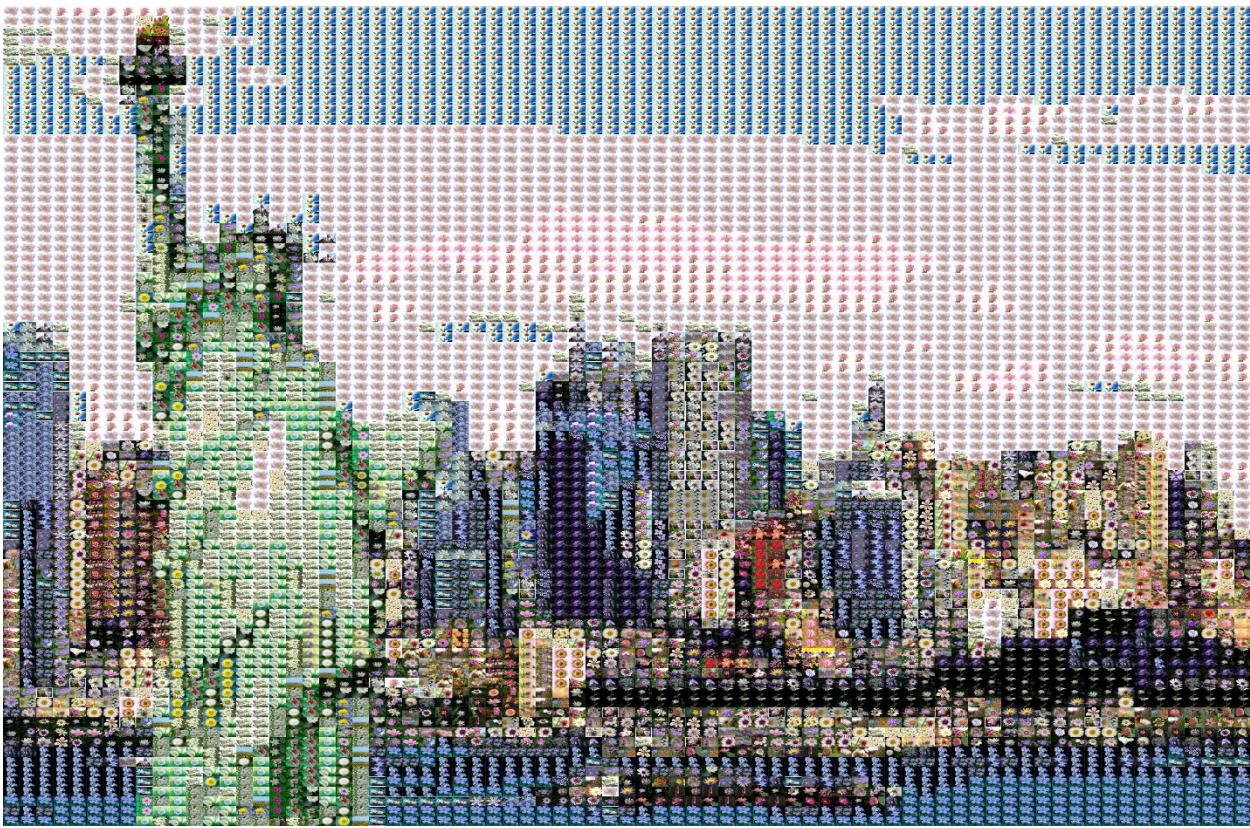
- Liberty.jpg
 - 25 imagini pe orizontala



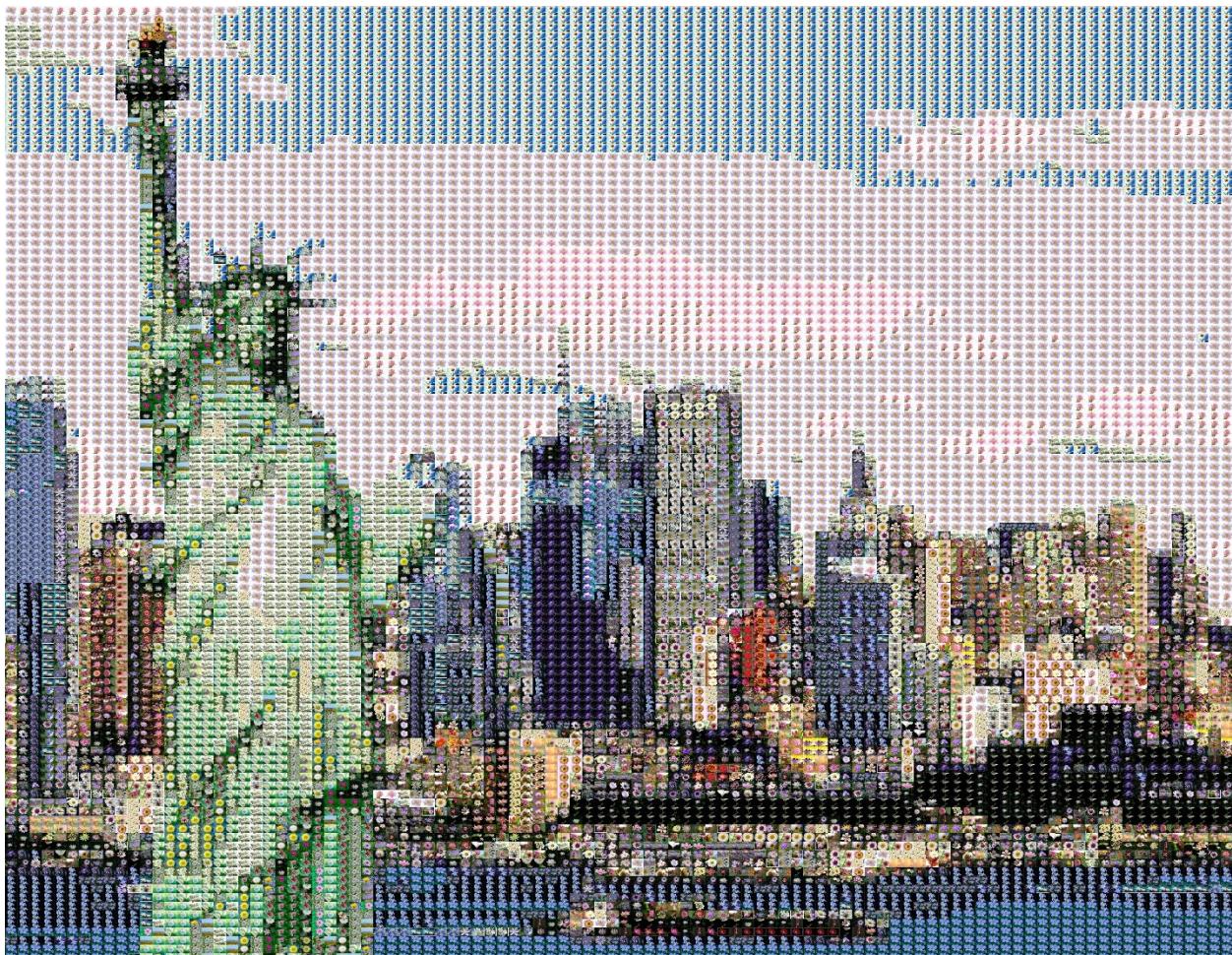
- 50 imagini pe orizontala



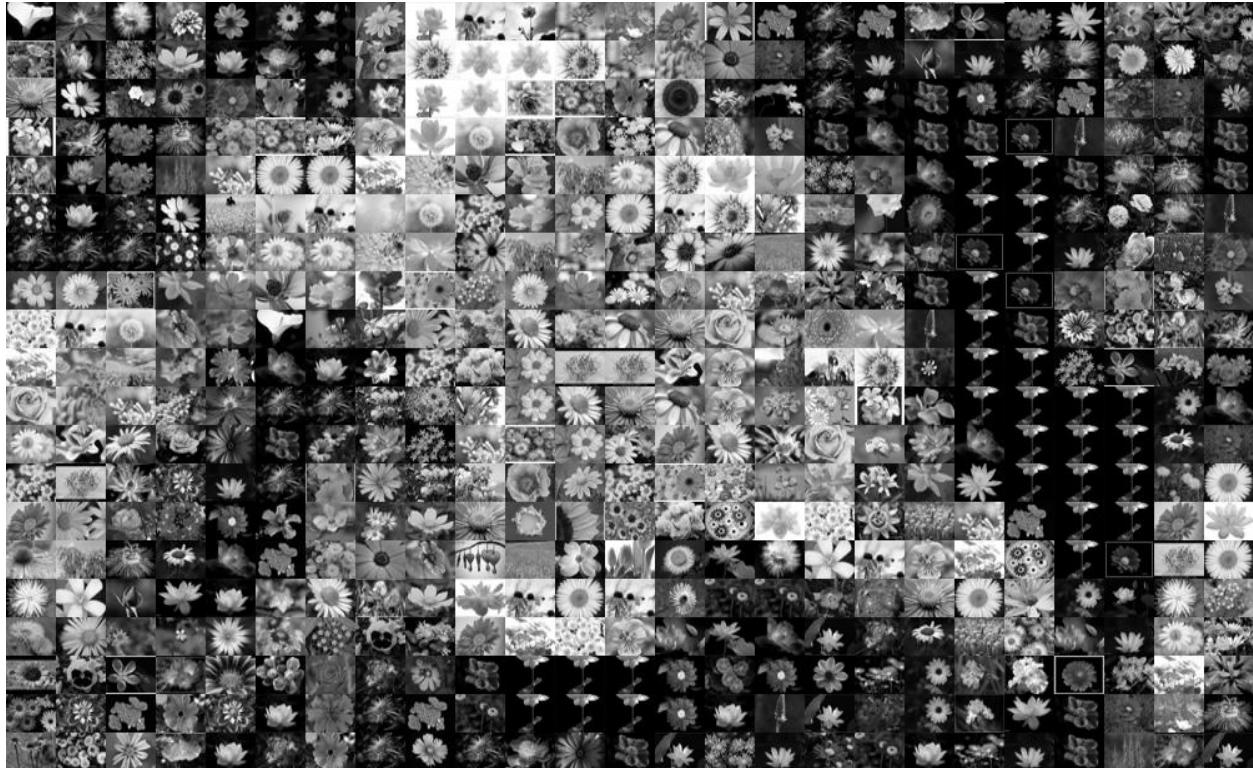
- 75 imagini pe orizontala



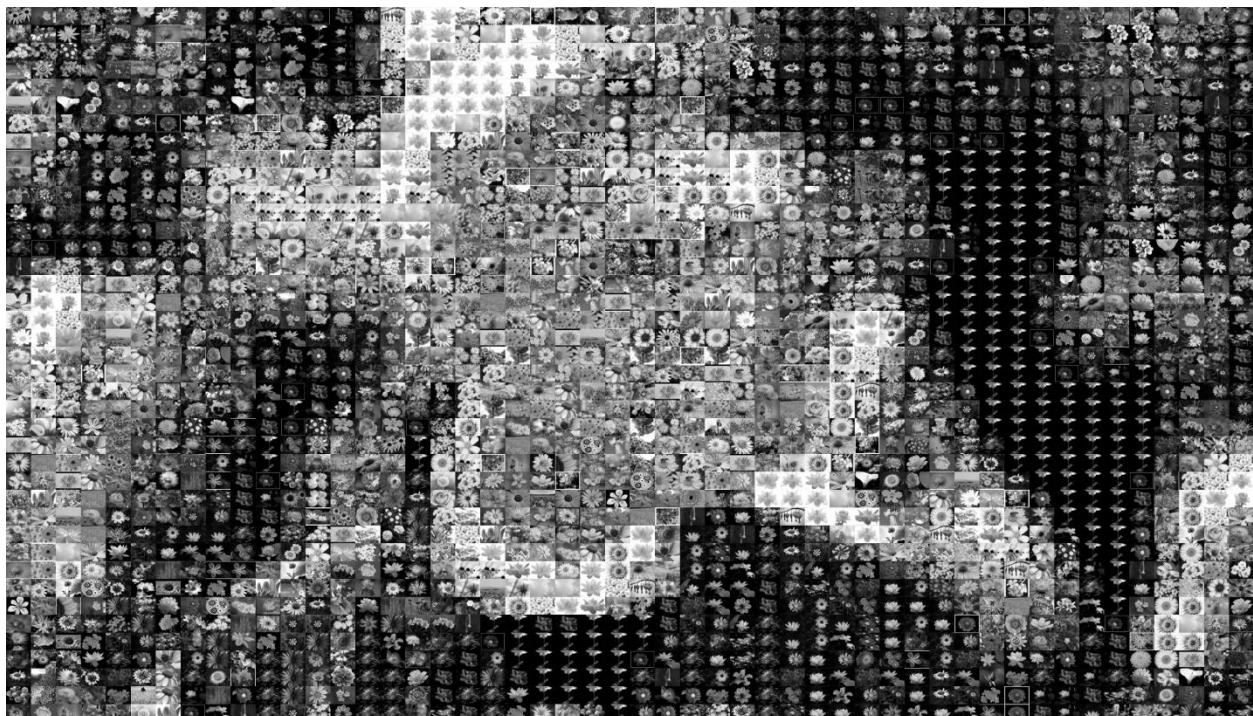
- 100 imagini pe orizontală



- Obama.jpeg
 - 25 imagini pe orizontala



- 50 imagini pe orizontala



- 75 imagini pe orizontala



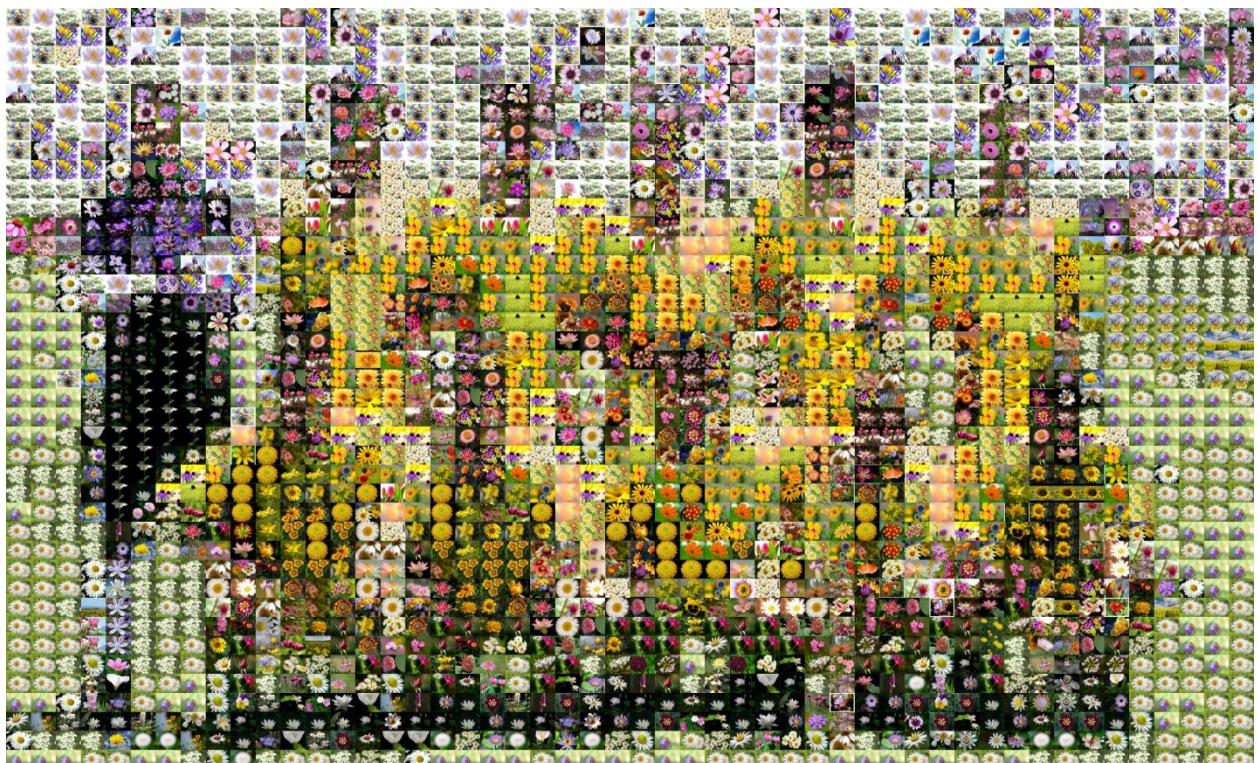
- 100 imagini pe orizontala



- Romania.jpeg
 - 25 imagini pe orizontala



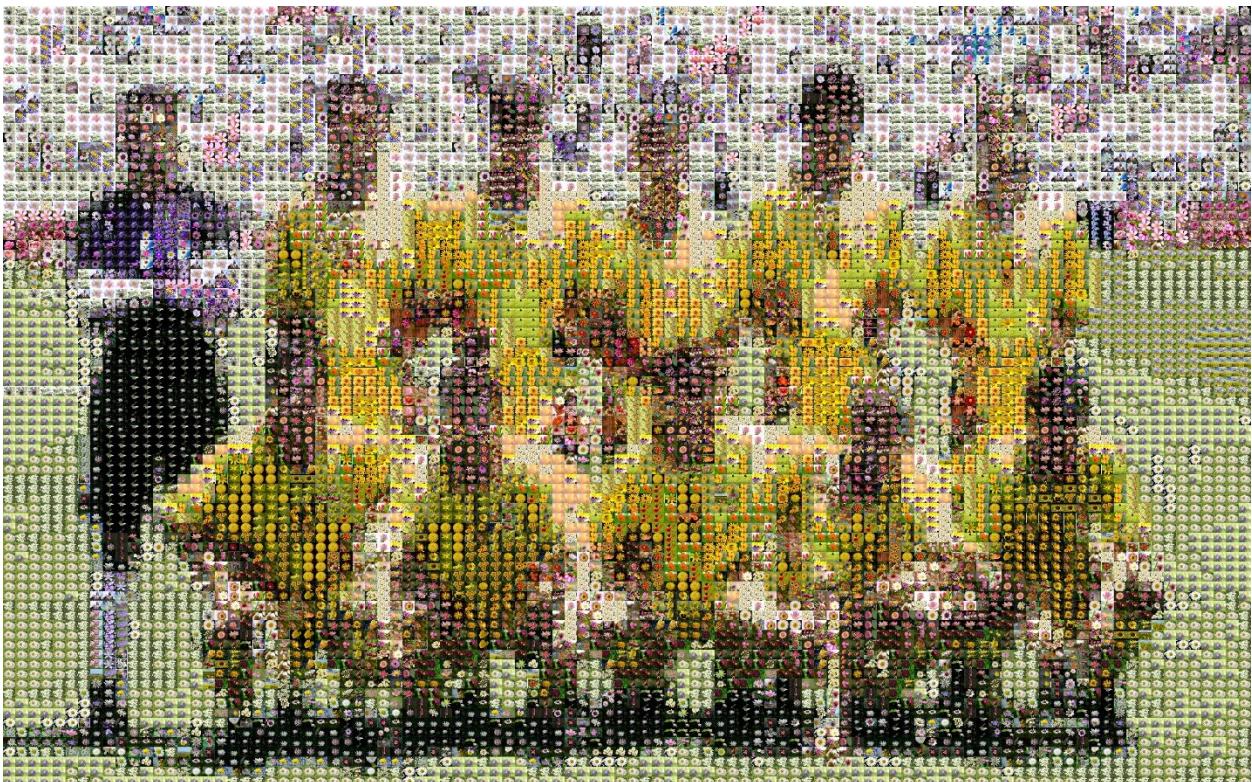
- 50 imagini pe orizontala



- 75 imagini pe orizontala



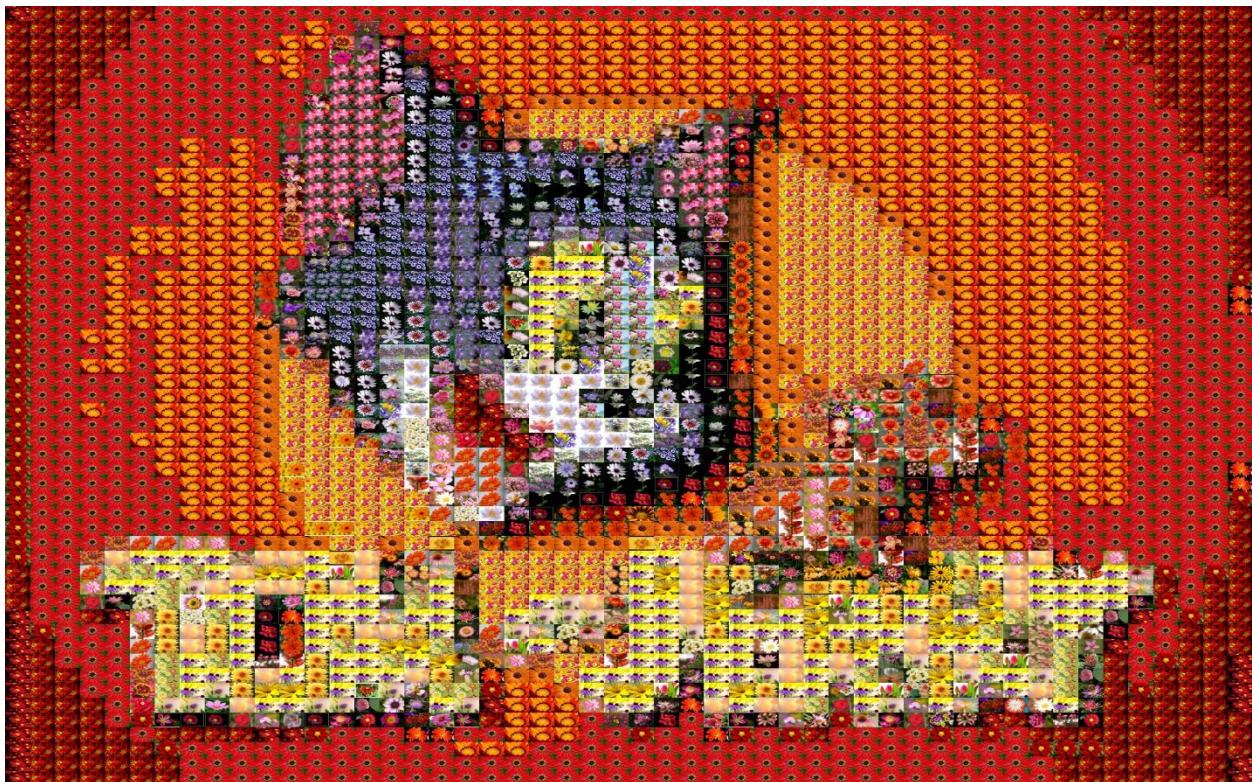
- 100 imagini pe orizontala



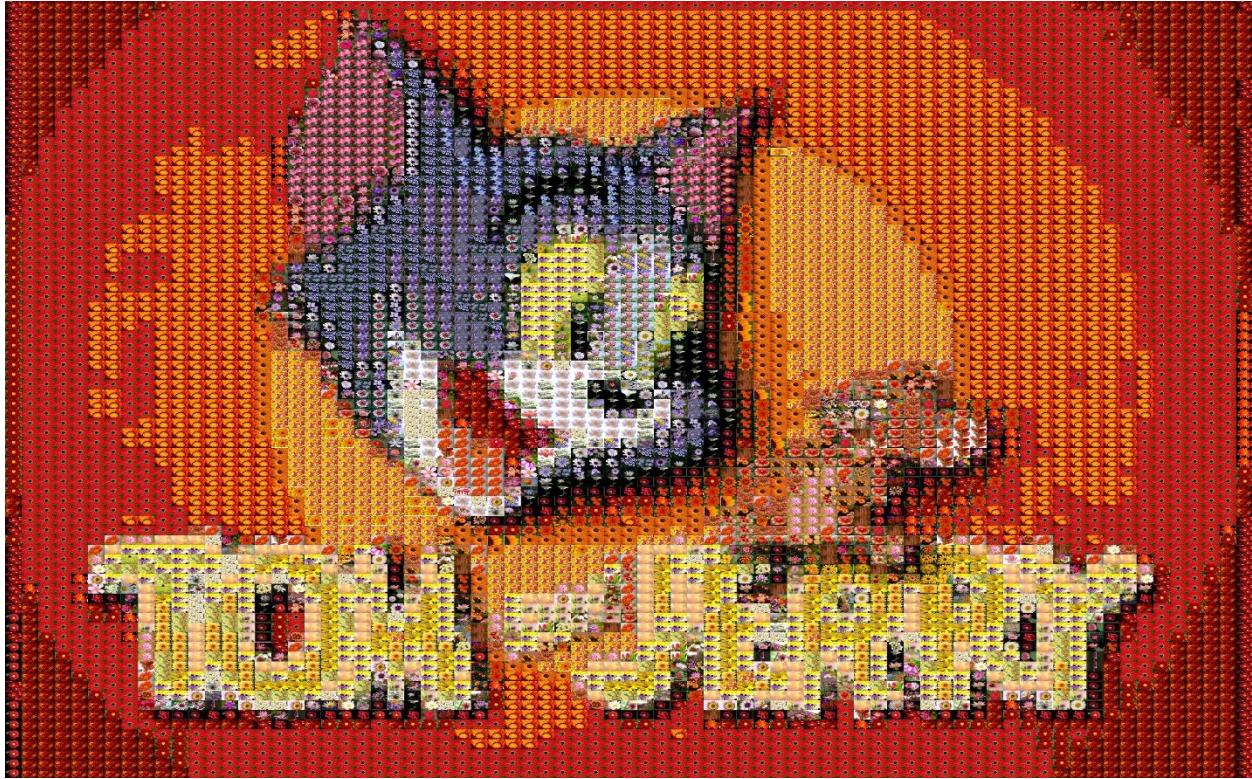
- tomJerry.jpeg
 - 25 imagini pe orizontala



- 50 imagini pe orizontala



- 75 imagini pe orizontala



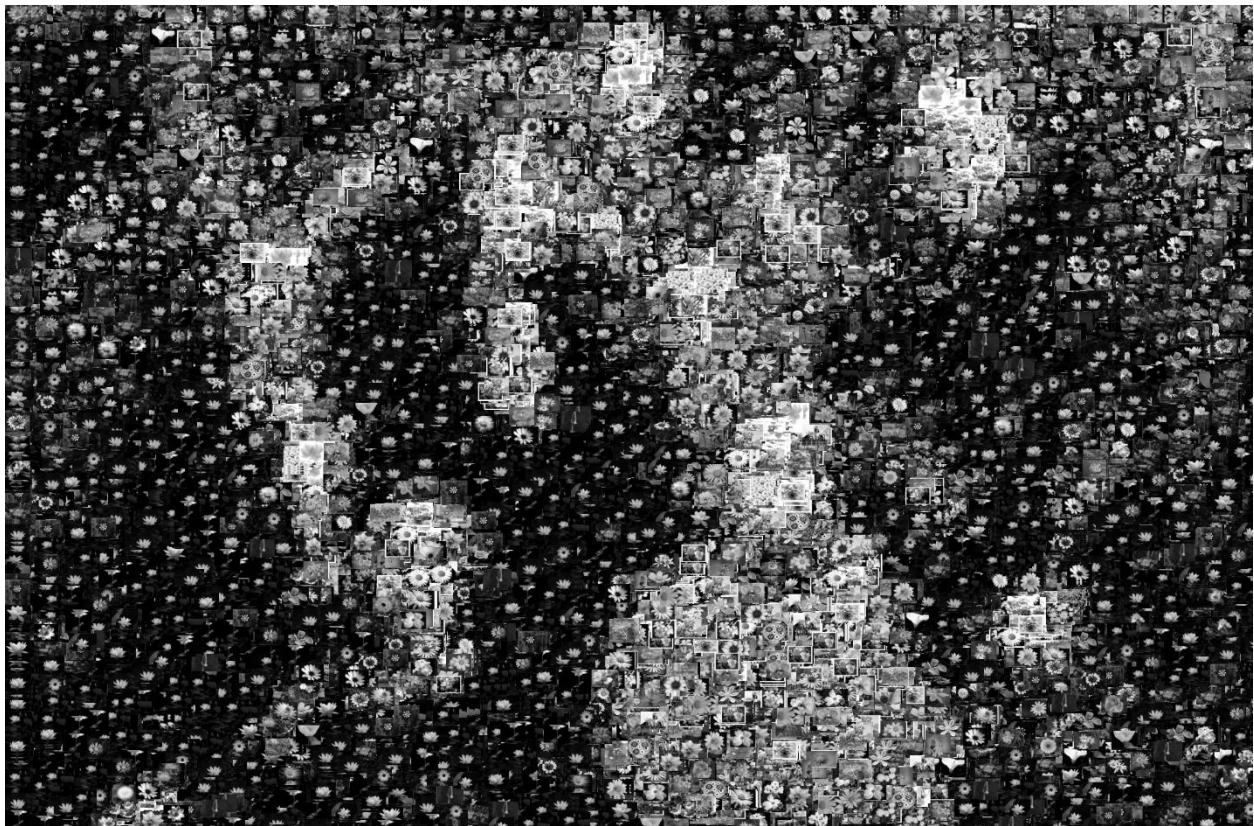
- 100 imagini pe orizontala



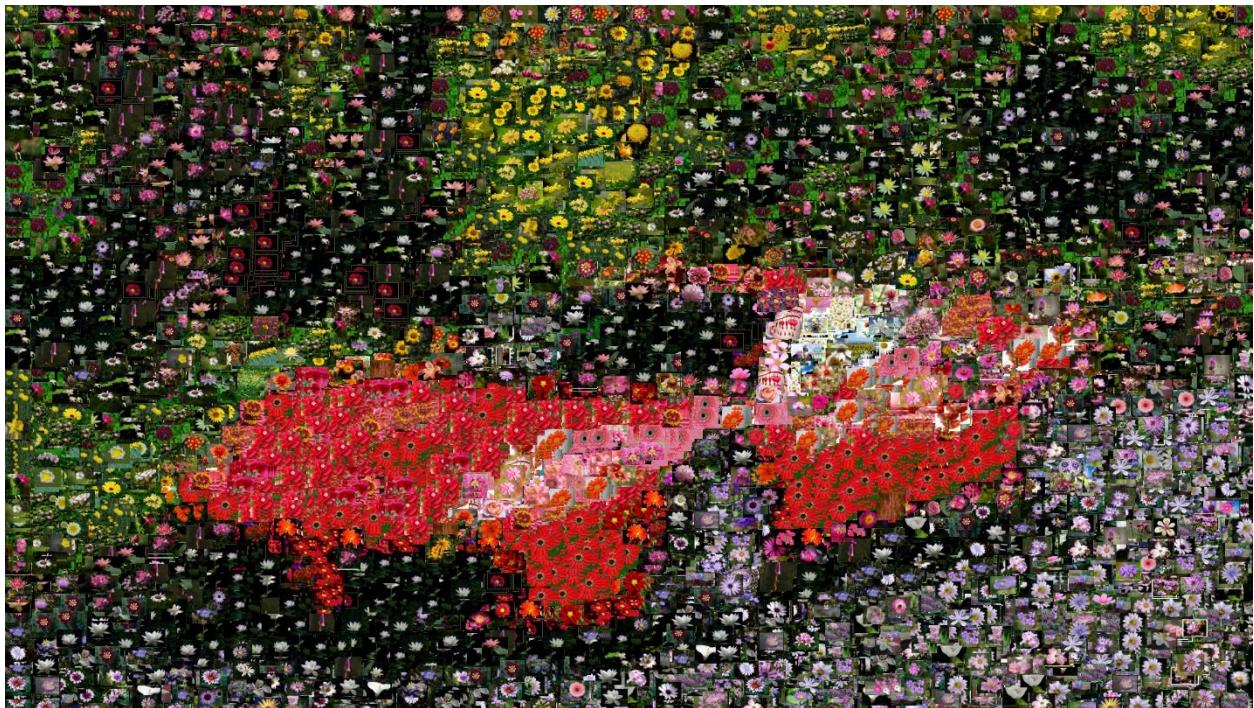
Criteriul distantei euclidiene dintre culorile medii ne-a ajutat sa alegem piesa de mosaic cu cea mai apropiata culoare medie de culoarea medie a patch-ului de inlocuit. Astfel, cu cat marim numarul de piese de pe orizontala, imaginea mozaic seamana din ce in ce mai mult cu imaginea de test.

b) Mozaicurile obtinute pentru imaginile din directorul '.../data/imaginiTest/' pentru modul de aranjare 'aleator' si criteriul distantei euclidiene dintre culorile medii sunt urmtoarele:

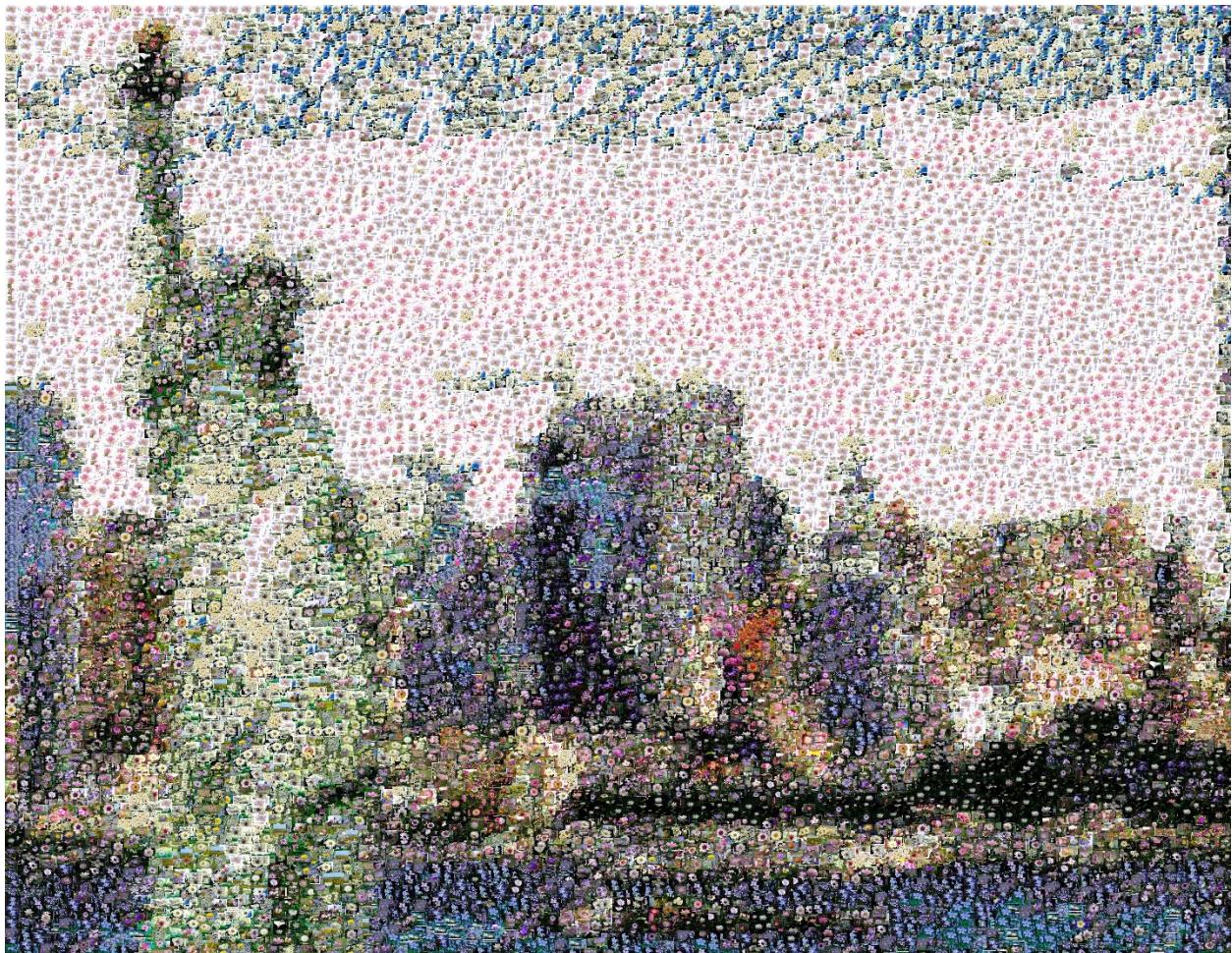
- Adams.jpg
 - 50 imagini pe orizontala



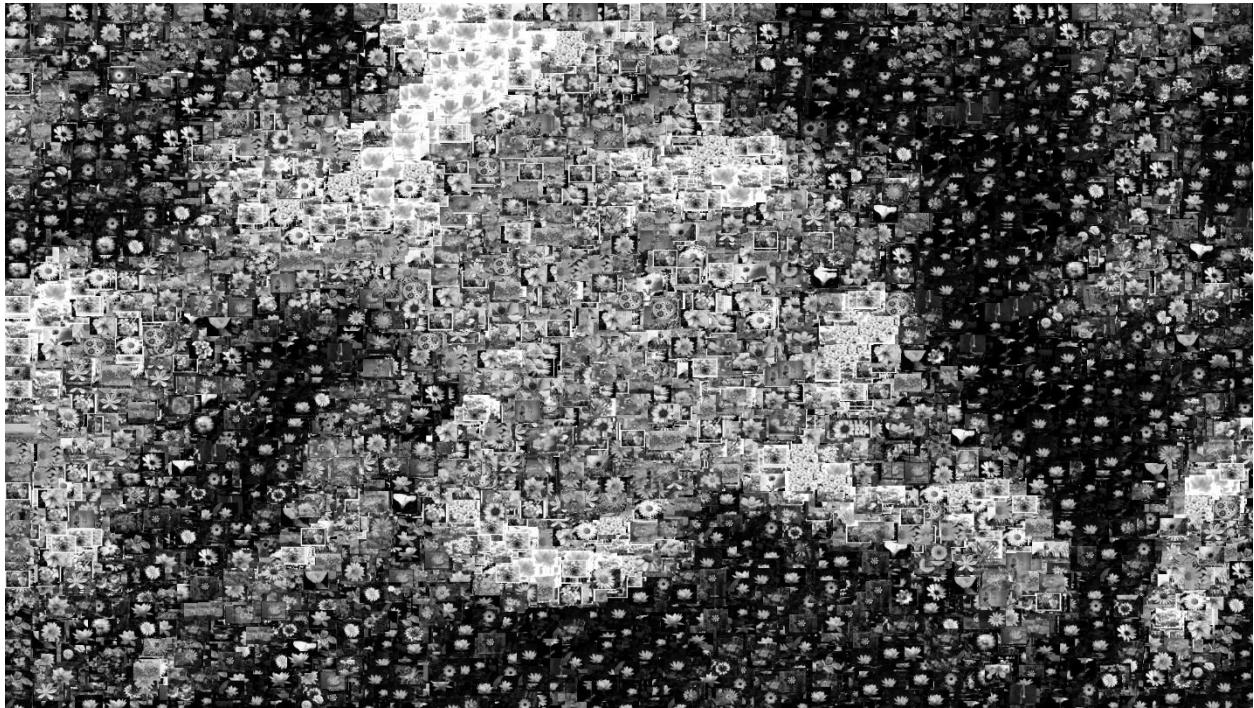
- Ferrari.jpeg
 - 50 imagini pe orizontala



- Liberty.jpg
 - 100 imagini pe orizontala



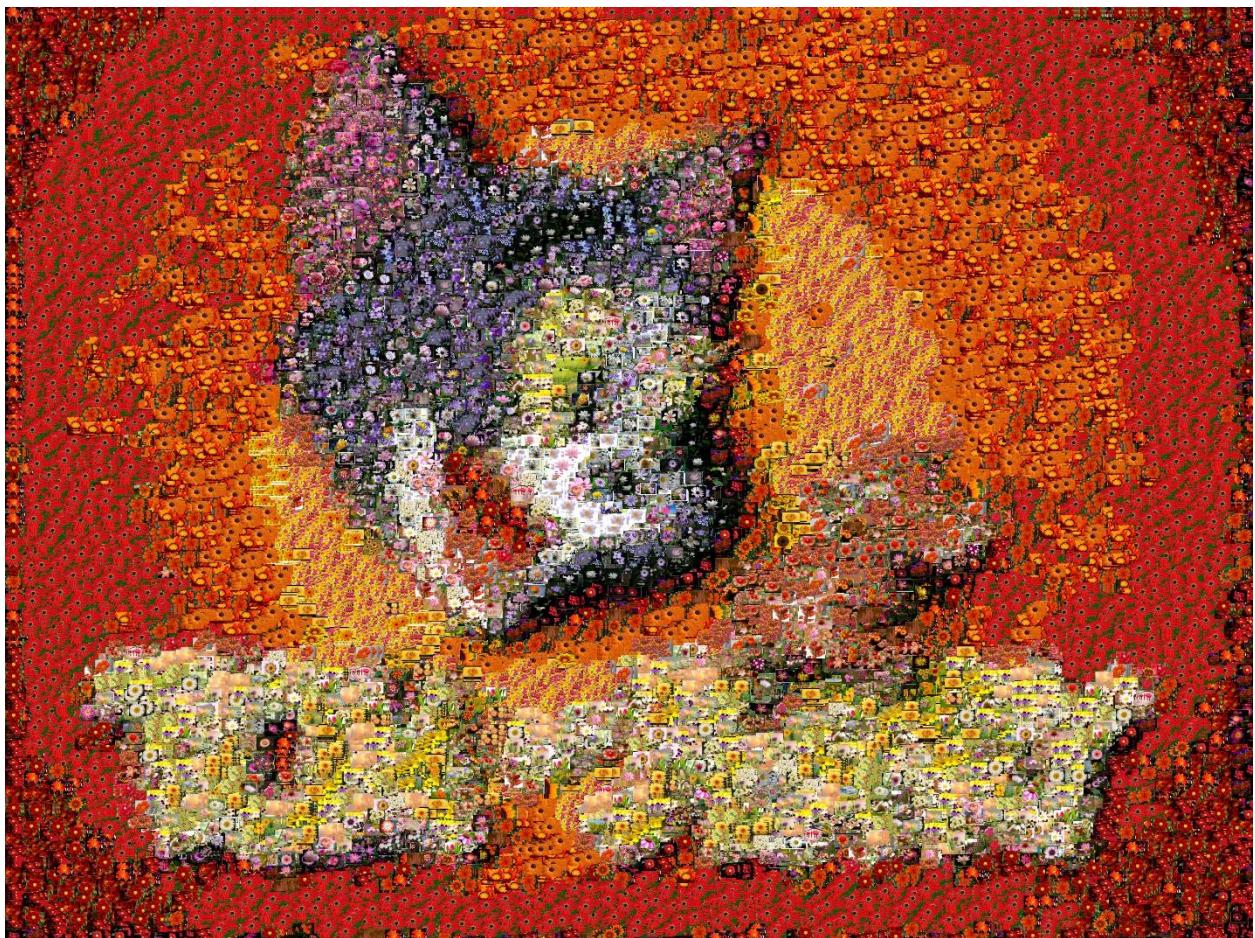
- Obama.jpeg
 - 50 imagini pe orizontala



- Romania.jpeg
 - 75 imagini pe orizontala



- tomJerry.jpeg
 - 75 imagini pe orizontala

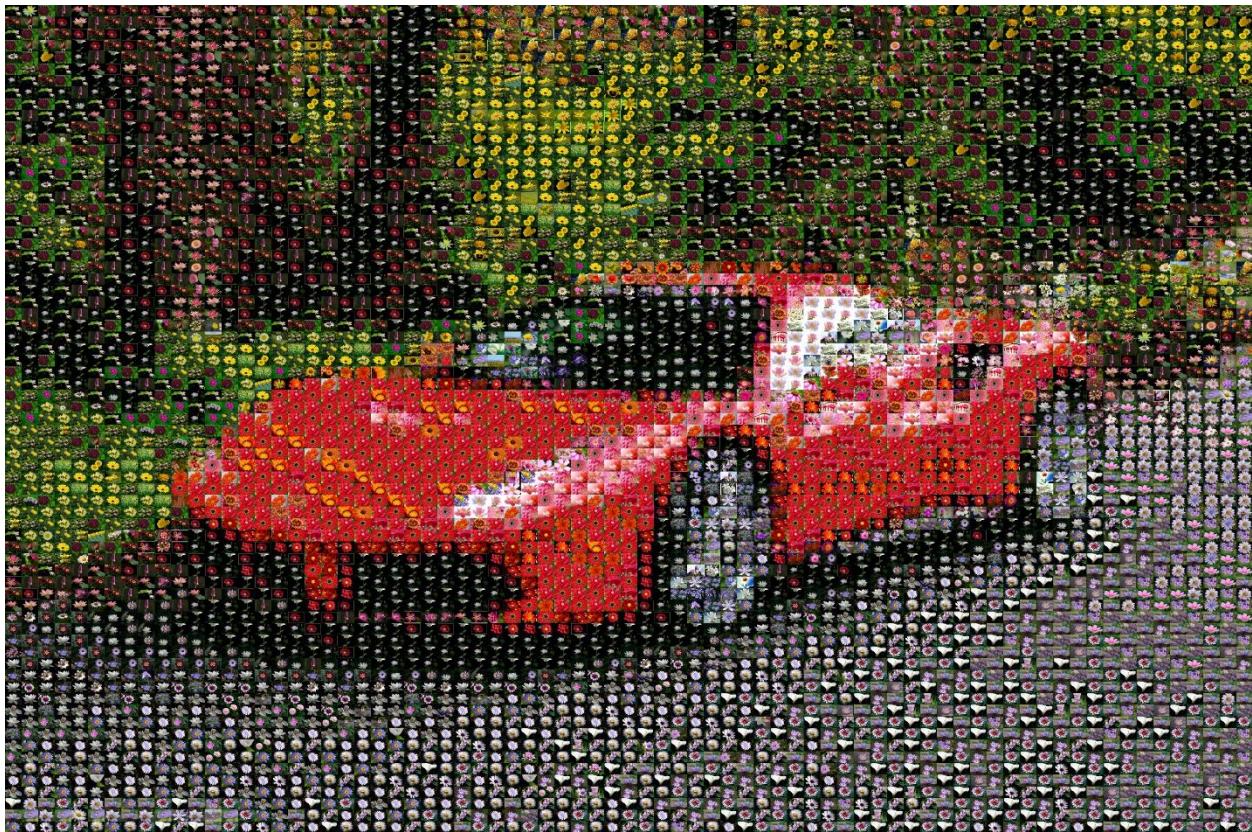


c) Mozaicurile obtinute pentru imaginile din directorul '.../data/imaginiTest/' astfel incat mozaicul obtinut sa aiba proprietatea ca nu exista doua piese adiacente identice sunt urmatoarele:

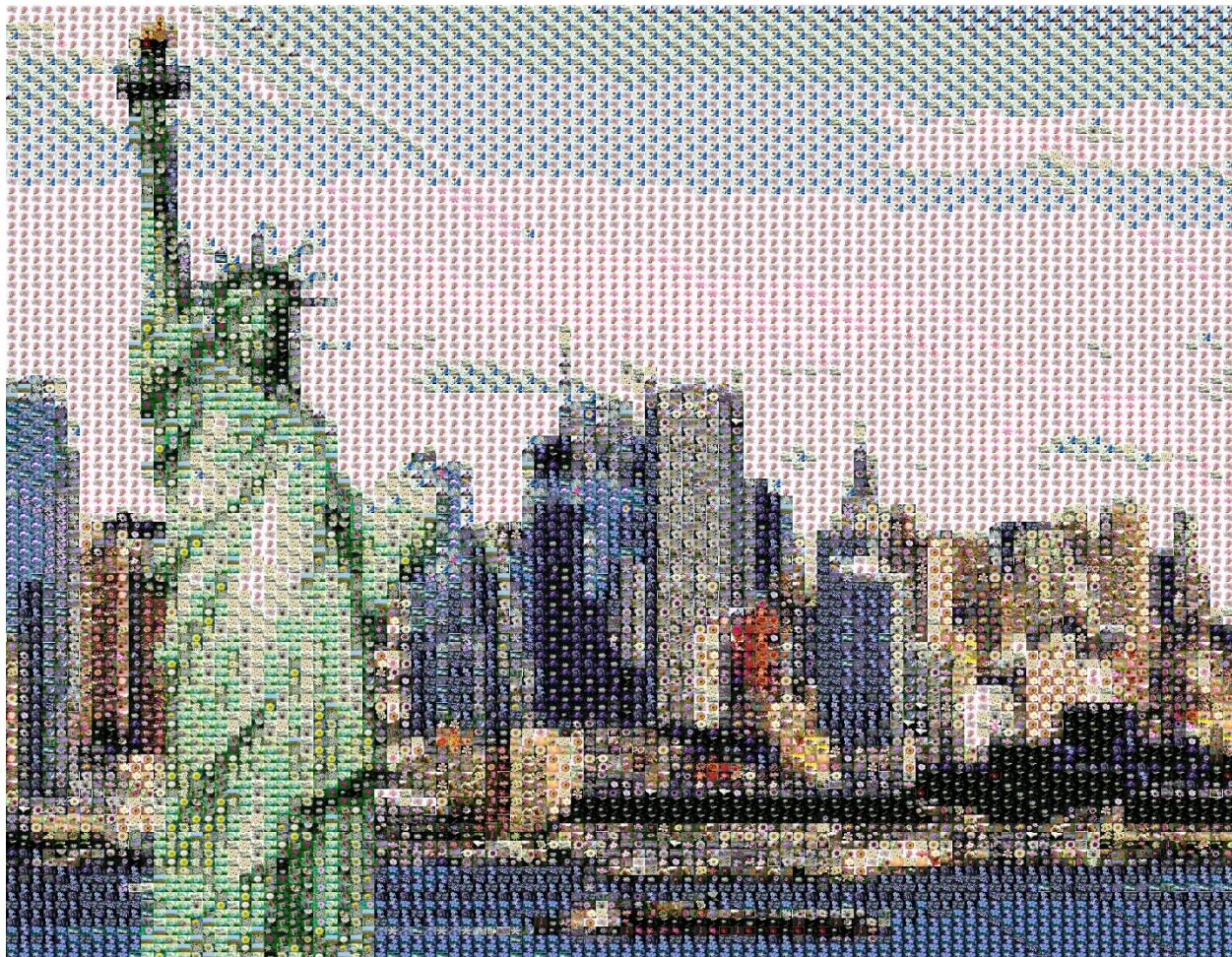
- Adams.jpg
 - 100 imagini pe orizontala



- Ferrari.jpeg
 - 75 imagini pe orizontala



- Liberty.jpg
 - 100 imagini pe orizontala



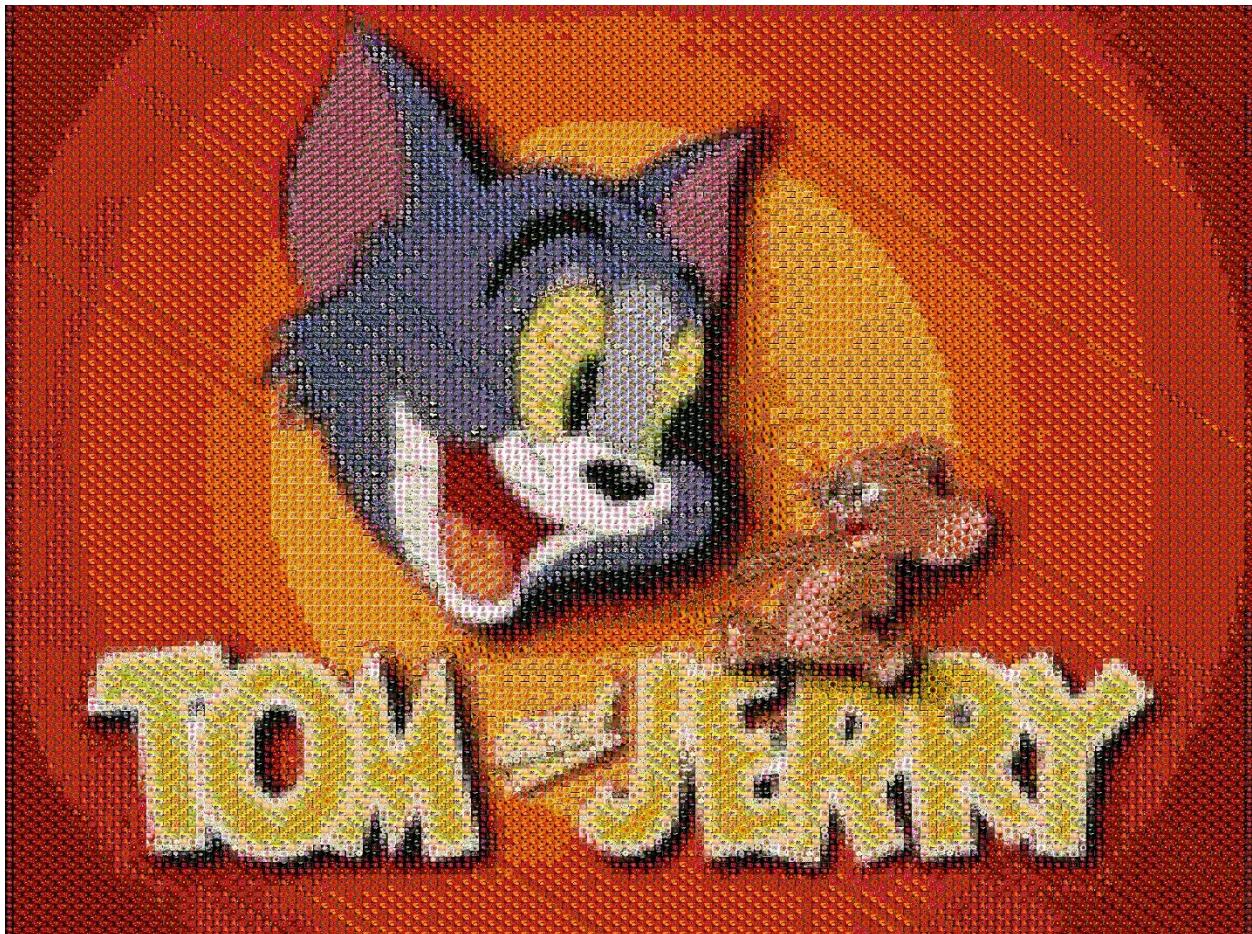
- Obama.jpeg
 - 100 imagini pe orizontala



- Romania.jpeg
 - 100 imagini pe orizontala



- tomJerry.jpeg
 - 150 imagini pe orizontala



d) Pentru acest subpunct am folosit o colectie pe care am downloadat-o de pe link-ul:
<https://www.kaggle.com/prasunroy/natural-images>

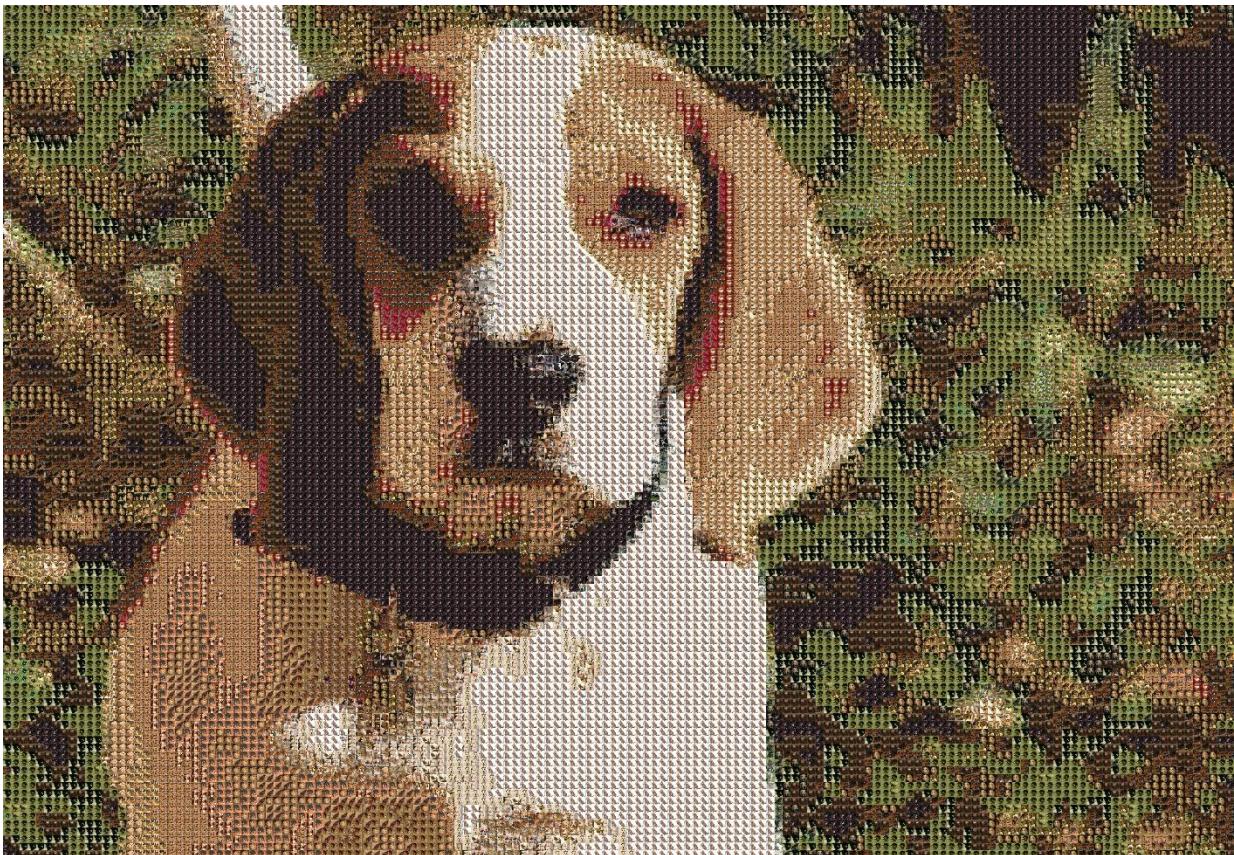
Am ales colectia de imagini cu catei, ce contine 702 de imagini de diferite dimensiuni, pe care le-am redimensionat la 32x32 pixeli. Astfel, primele 10 imagini sunt:



Am construit 5 mozaicuri pentru imagini continand diferite rase de caini, dupa cum urmeaza:



Dupa aplicarea algoritmului, cu 150 de piese pe orizontala:

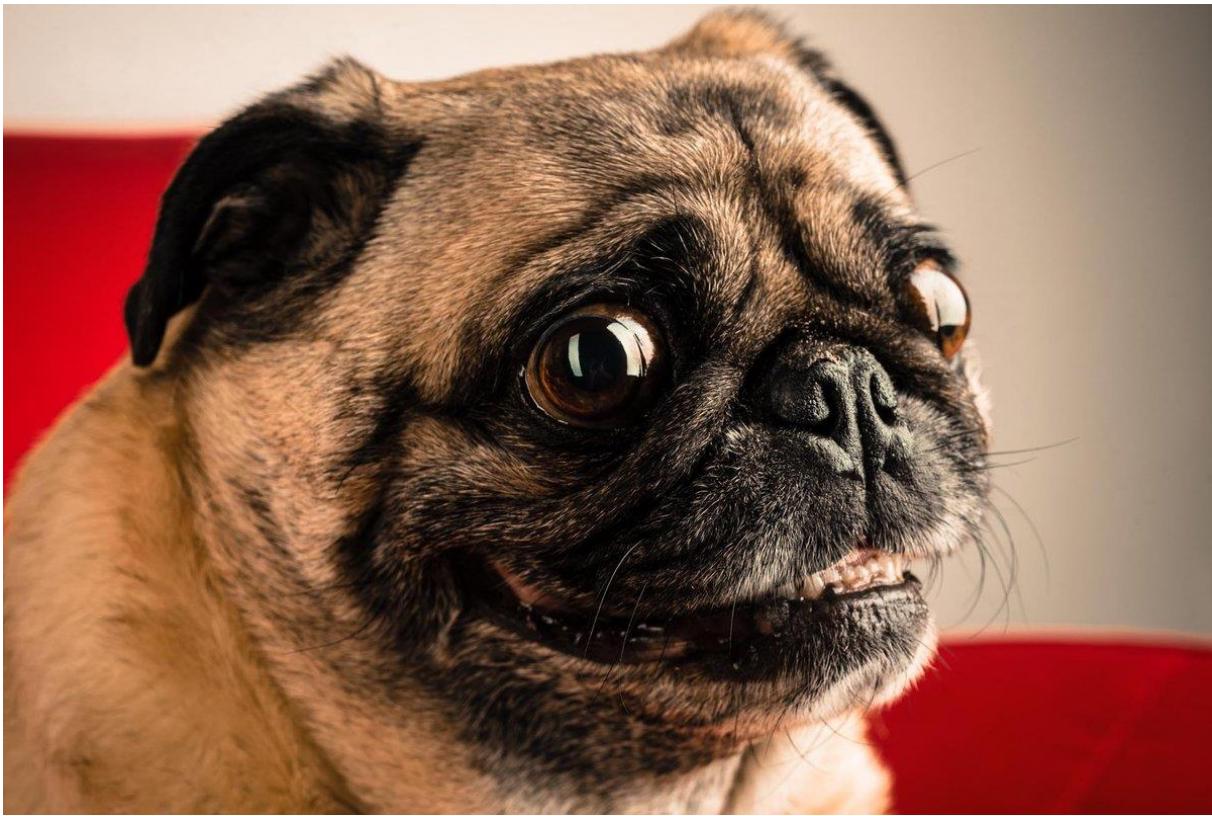




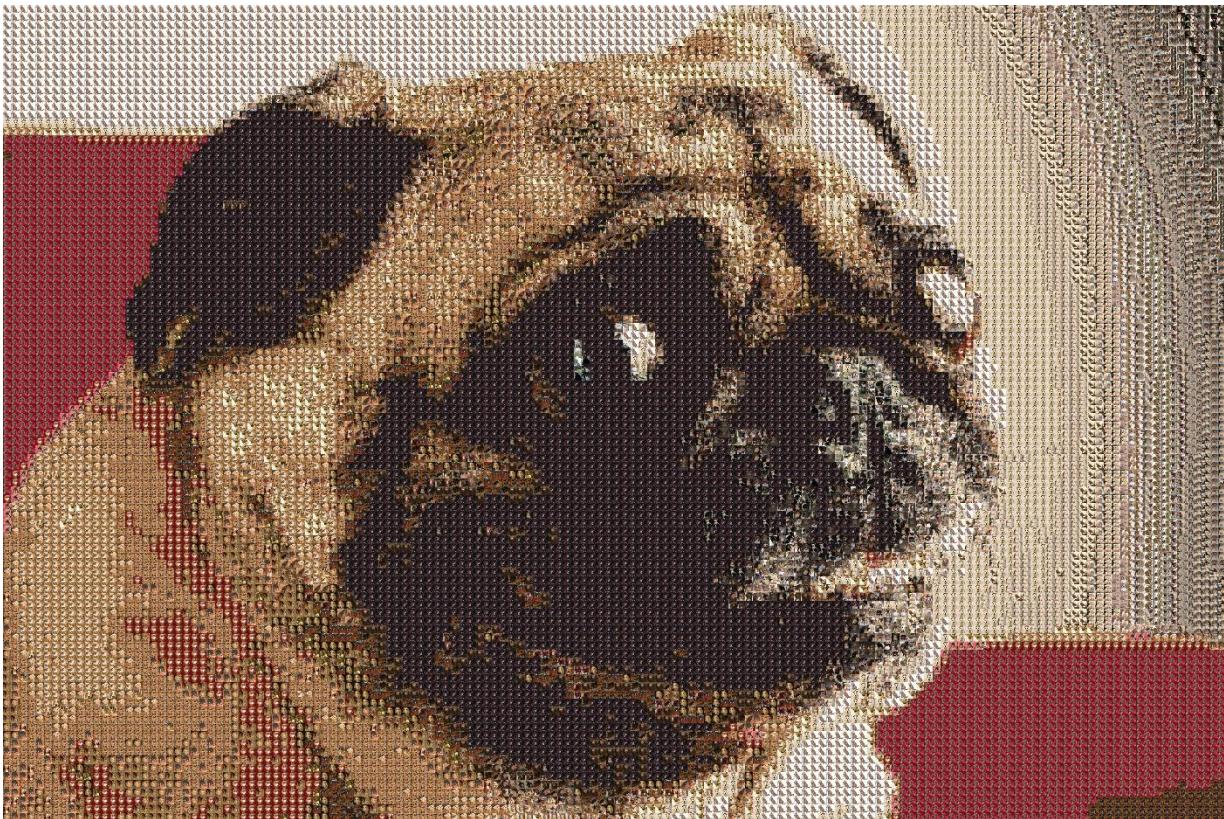
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Dupa aplicarea algoritmului, cu 150 de piese pe orizontala:



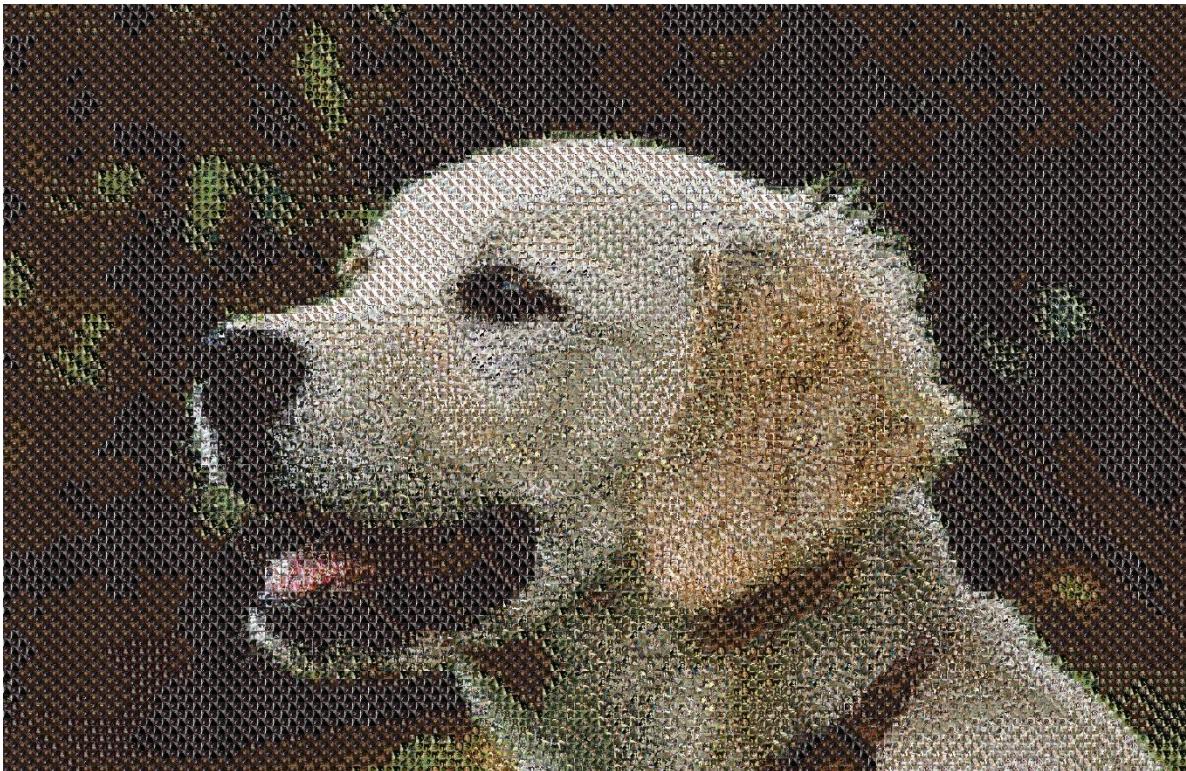


Dupa aplicarea algoritmului, cu 150 de piese pe orizontala:

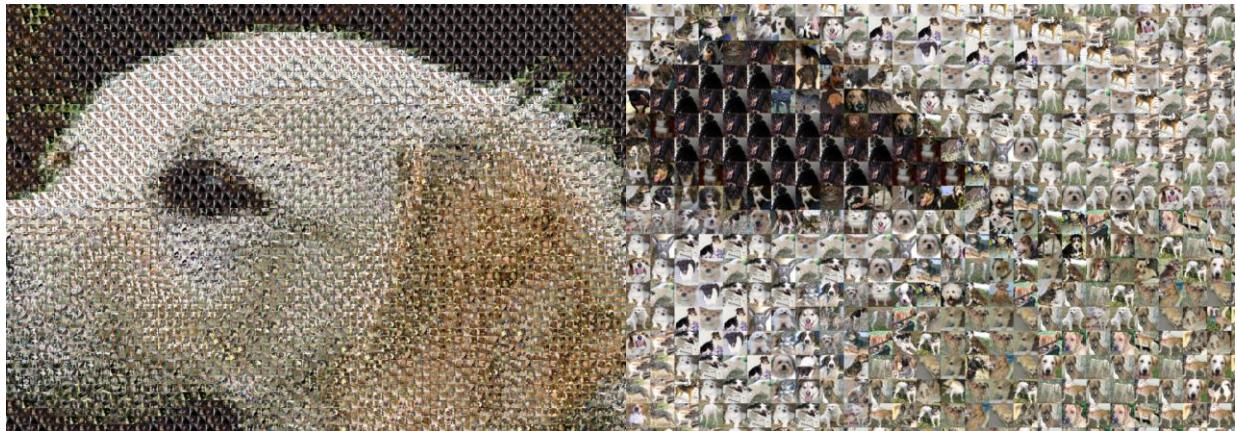




Dupa aplicarea algoritmului, cu 150 de piese pe orizontala:



Zoom:





Dupa aplicarea algoritmului, cu 100 de piese pe orizontala:

