

Senior Capstone 2016 – Image Mosaic – Veishea Grebin

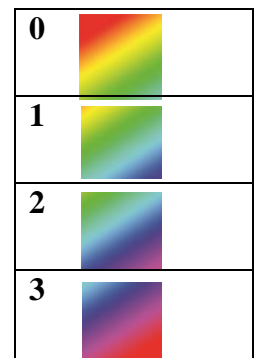
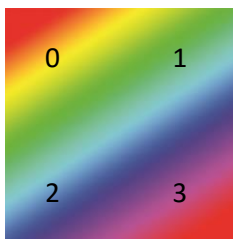
Array Contents and Struct Tile

tileNumber = (number of tiles wide) x (number of tiles high)

Tile

red	avg. red value
green	avg. green value
blue	avg. blue value

originalImgarray - array of images, original image chopped up

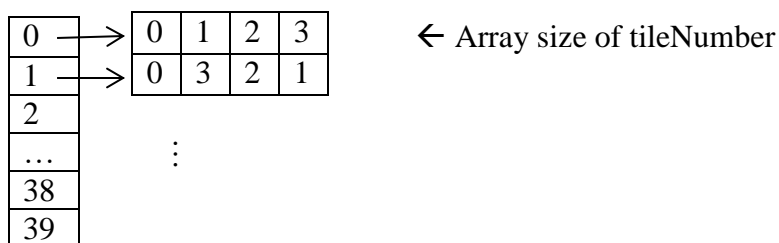


targetImage – array of tiles, has the average red, green and blue values corresponding with the images in the array above

tileImages – array of uploaded tile images

tileImagesColor – array of tiles, has the average red, green and blue values corresponding with the images in the array(tileImages) above

generation – a multidimensional array of image numbers, an array of 40 pointers to the 40 child arrangements



childrenScores – the total score for each child in the generation(size = 40)

bestMatches – childrenScores ordered from best scores to worst score; has the child number in the first column and the score in the second column

childrenTileScores – a multidimensional array of scores for each tile in each child

0	→	100	40	80	325	← Array size of tileNumber
1	→	123	548	2	56	
2						
...						
38						
39						

indiviChildBestMatches – a multidimensional array that has 3 columns and the number of tiles as the number of rows; it has data for one child at a time

			image number
			image score
			location of image in that child