## **SimilaritySearch**

main(): void
findKNN(): void

queryImage: ColorImage

queryHistogram: ColorHistogram datasetHistograms: ColorHistogram[]

queryPhotoName: String datasetFilePath: String

files: File[]

knn: ArrayList<ColorHistogram>

## ColorImage

getWidth(): int
getHeight(): int
getDepth(): int
getD(): int
readFile(): void
getPixel(): int[]

fileName: String

reduceColor(): void

width: int
height: int
depth: int
D: int
r: int[][]
g: int[][]
b: int[][]

## HistogramComparator

compare(): int

## ColorHistogram

readFile(): void
setImage(): void

getFileName(): double[]
getHistogram(): double[]
getCompareResult(): double
queryToHistogram(): void

compare(): double
saveHistogram(): void

d: int

numColour: int
filename: String
colourList: String[]
normalHisto: double[]

cI: ColorImage

compareResult: double