Image Segmentation Project

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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2 Class Index

Chapter 2

File Index

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Here is a list of all files with brief descriptions:	
main.c	17

File Index

Chapter 3

Class Documentation

3.1 BMPHeader Struct Reference

Public Attributes

- char bfType [3]
- int bfSize
- int bfReserved
- int bfOffBits
- int biSize
- int biWidth
- int biHeight
- short biPlanes
- short biBitCount
- int biCompression
- int biSizeImage
- int biXPelsPerMeter
- int biYPelsPerMeter
- int biClrUsed
- int biClrImportant

3.1.1 Detailed Description

Definition at line 1133 of file main.c.

3.1.2 Member Data Documentation

3.1.2.1 bfOffBits

int BMPHeader::bfOffBits

Definition at line 1138 of file main.c.

3.1.2.2 bfReserved int BMPHeader::bfReserved Definition at line 1137 of file main.c. 3.1.2.3 bfSize int BMPHeader::bfSize Definition at line 1136 of file main.c. 3.1.2.4 bfType char BMPHeader::bfType[3] Definition at line 1135 of file main.c. 3.1.2.5 biBitCount short BMPHeader::biBitCount Definition at line 1143 of file main.c. 3.1.2.6 biClrImportant int BMPHeader::biClrImportant Definition at line 1150 of file main.c. 3.1.2.7 biClrUsed int BMPHeader::biClrUsed

Definition at line 1148 of file main.c.

3.1.2.8 biCompression int BMPHeader::biCompression Definition at line 1144 of file main.c. 3.1.2.9 biHeight int BMPHeader::biHeight Definition at line 1141 of file main.c. 3.1.2.10 biPlanes short BMPHeader::biPlanes Definition at line 1142 of file main.c. 3.1.2.11 biSize int BMPHeader::biSize

3.1.2.12 biSizeImage

int BMPHeader::biSizeImage

Definition at line 1145 of file main.c.

Definition at line 1139 of file main.c.

3.1.2.13 biWidth

int BMPHeader::biWidth

Definition at line 1140 of file main.c.

3.1.2.14 biXPelsPerMeter

int BMPHeader::biXPelsPerMeter

Definition at line 1146 of file main.c.

3.1.2.15 biYPelsPerMeter

int BMPHeader::biYPelsPerMeter

Definition at line 1147 of file main.c.

The documentation for this struct was generated from the following file:

· main.c

3.2 contenedor_de_parametros_de_control Struct Reference

Public Attributes

- int width
- int height
- char pathAndInputImageFileName [256]
- char pathOfOutputDirectory [256]
- int xi
- int yi
- int xf
- int yf
- int cx
- int cy
- int r
- int v1x
- int v1y
- int v2x
- int v2y
- int v3x
- int v3y

3.2.1 Detailed Description

Definition at line 59 of file main.c.

3.2.2 Member Data Documentation

3.2.2.1 cx

int contenedor_de_parametros_de_control::cx

Definition at line 69 of file main.c.

3.2.2.2 cy

 $\verb|int| contenedor_de_parametros_de_control::cy|\\$

Definition at line 70 of file main.c.

3.2.2.3 height

int contenedor_de_parametros_de_control::height

Definition at line 62 of file main.c.

3.2.2.4 pathAndInputImageFileName

char contenedor_de_parametros_de_control::pathAndInputImageFileName[256]

Definition at line 63 of file main.c.

3.2.2.5 pathOfOutputDirectory

char contenedor_de_parametros_de_control::pathOfOutputDirectory[256]

Definition at line 64 of file main.c.

3.2.2.6 r

int contenedor_de_parametros_de_control::r

Definition at line 71 of file main.c.

```
3.2.2.7 v1x
\verb|int| contenedor_de_parametros_de_control:: v1x|\\
Definition at line 72 of file main.c.
3.2.2.8 v1y
int contenedor_de_parametros_de_control::v1y
Definition at line 73 of file main.c.
3.2.2.9 v2x
int contenedor_de_parametros_de_control::v2x
Definition at line 74 of file main.c.
3.2.2.10 v2y
int contenedor_de_parametros_de_control::v2y
Definition at line 75 of file main.c.
3.2.2.11 v3x
int contenedor_de_parametros_de_control::v3x
Definition at line 76 of file main.c.
3.2.2.12 v3y
int contenedor_de_parametros_de_control::v3y
```

Definition at line 77 of file main.c.

3.2.2.13 width

int contenedor_de_parametros_de_control::width

Definition at line 61 of file main.c.

3.2.2.14 xf

 $\verb|int| contenedor_de_parametros_de_control::xf|$

Definition at line 67 of file main.c.

3.2.2.15 xi

int contenedor_de_parametros_de_control::xi

Definition at line 65 of file main.c.

3.2.2.16 yf

int contenedor_de_parametros_de_control::yf

Definition at line 68 of file main.c.

3.2.2.17 yi

int contenedor_de_parametros_de_control::yi

Definition at line 66 of file main.c.

The documentation for this struct was generated from the following file:

main.c

3.3 plnputlmage Struct Reference

Public Attributes

- · int width
- · int height
- unsigned char * prgb
- unsigned char * pintensity
- int histograma [256]
- double p [256]
- double m
- double ms
- · double var
- unsigned char * pdrawnLinealSegmentOnIntensity
- unsigned char * pdrawnCircleOnIntensity
- unsigned char * pdrawnTriangleOnIntensity
- double medidas_estadisticas [3]
- int funcion_vero
- double c1
- double c2
- double m1
- double m2
- double varianza1
- double varianza2
- unsigned char * pimagensegmentada
- double * pmeanImage
- unsigned char * pmeanImage_uc
- double * pvarianceImage
- unsigned char * pvarianceImage_uc

3.3.1 Detailed Description

Definition at line 36 of file main.c.

3.3.2 Member Data Documentation

3.3.2.1 c1

double pInputImage::c1

Definition at line 50 of file main.c.

3.3.2.2 c2
double pInputImage::c2
Definition at line 50 of file main.c.
3.3.2.3 funcion_vero
<pre>int pInputImage::funcion_vero</pre>
Definition at line 49 of file main.c.
3.3.2.4 height
<pre>int pInputImage::height</pre>
Definition at line 39 of file main.c.
3.3.2.5 histograma
<pre>3.3.2.5 histograma int pInputImage::histograma[256]</pre>
<pre>int pInputImage::histograma[256]</pre>
<pre>int pInputImage::histograma[256] Definition at line 42 of file main.c.</pre>
<pre>int pInputImage::histograma[256]</pre>
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<pre>int pInputImage::histograma[256] Definition at line 42 of file main.c. 3.3.2.6 m double pInputImage::m</pre>
<pre>int pInputImage::histograma[256] Definition at line 42 of file main.c. 3.3.2.6 m double pInputImage::m Definition at line 44 of file main.c.</pre>
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Definition at line 50 of file main.c.

14 **Class Documentation** 3.3.2.8 m2 double pInputImage::m2 Definition at line 50 of file main.c. 3.3.2.9 medidas_estadisticas double pInputImage::medidas_estadisticas[3] Definition at line 48 of file main.c. 3.3.2.10 ms double pInputImage::ms Definition at line 44 of file main.c. 3.3.2.11 p double pInputImage::p[256] Definition at line 43 of file main.c. 3.3.2.12 pdrawnCircleOnIntensity unsigned char* pInputImage::pdrawnCircleOnIntensity

Definition at line 46 of file main.c.

3.3.2.13 pdrawnLinealSegmentOnIntensity

unsigned char* pInputImage::pdrawnLinealSegmentOnIntensity

Definition at line 45 of file main.c.

3.3.2.14 pdrawnTriangleOnIntensity

unsigned char* pInputImage::pdrawnTriangleOnIntensity

Definition at line 47 of file main.c.

3.3.2.15 pimagensegmentada

unsigned char* pInputImage::pimagensegmentada

Definition at line 51 of file main.c.

3.3.2.16 pintensity

unsigned char* pInputImage::pintensity

Definition at line 41 of file main.c.

3.3.2.17 pmeanImage

double* pInputImage::pmeanImage

Definition at line 52 of file main.c.

3.3.2.18 pmeanImage_uc

unsigned char* pInputImage::pmeanImage_uc

Definition at line 53 of file main.c.

3.3.2.19 prgb

unsigned char* pInputImage::prgb

Definition at line 40 of file main.c.

3.3.2.20 pvariancelmage double* pInputImage::pvarianceImage Definition at line 54 of file main.c. 3.3.2.21 pvarianceImage_uc unsigned char* pInputImage::pvarianceImage_uc Definition at line 55 of file main.c. 3.3.2.22 var double pInputImage::var Definition at line 44 of file main.c. 3.3.2.23 varianza1 double pInputImage::varianza1 Definition at line 50 of file main.c. 3.3.2.24 varianza2 double pInputImage::varianza2 Definition at line 50 of file main.c. 3.3.2.25 width int pInputImage::width Definition at line 38 of file main.c.

The documentation for this struct was generated from the following file:

• main.c

Chapter 4

File Documentation

4.1 main.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
#include <string.h>
Include dependency graph for main.c:
```

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