

Matrix

- values[]: Vector
- files: int
- columns: int

+ Matrix (f: int, c: int)
 + getElement (i: int, j: int): double
 + setElement (i: int, j: int, value: double)
 + addColumn (v: vector)
 + addRow (v: vector)
 + sumElements(): double
 + initZeroC()
 + getDimensionX(): int
 + getDimensionY(): int
 + sum (w: matrix)
 + mult (s: double)
 + mult (w: matrix)
 + Transpose()
 + printC()

AudioFile

- audioBuffer[]: AudioBuffer
- dimension: int

+ AudioFile (n: string, e: string, p: string)
 + loadC()
 + save()
 + close()
 + readHead()
 + readValue()
 + initMax (min: double, max: double)

Frame

- + Frame (height: int, width: int)
- + initMax (min: int, max: int)
- + smooth (radius: int)
- + addFrame (f: Frame)
- + changeBrightness (c: double)

AudioBuffer

- + AudioBuffer (freq: int)
- + initMax (min: double, max: double)
- + smooth (radius: int)
- + changeVolume (c: double)
- + addAB (AB: AudioBuffer)

ColorFrame

- + ChangeBrightness (h: int, w: int)
- + changeRGB (R: int, G: int, B: int)

ColorBiv

- + BwFrame (h: int, w: int)

VideoFile

- audioBuffer[]: AudioBuffer
- frame[]: Frame
- height: int
- width: int

VideoFile

- + VideoFile (n: string, e: string, p: string)
- + load()
- + save()
- + close()
- + changeBrightness (c: double)
- + initMaxFrame (min: int, max: int)
- + readHead()
- + readValue(): boolean
- + changeVolume (c: double)
- + changeRGB (R: int, G: int, B: int)

File <Abstract>

- name: string
- extension: string
- path: string

+ File (n: string, e: string, p: string)
 + load() >>
 + save() >>
 + close() >>
 + readHead() >>
 + readValue() >>

Vector

- values[]: double
- dimension: int

+ Vector (d: int)
 + getElement (e: int): double
 + setElement (e: int, v: double)
 + getDimension(): int
 + initZero()
 + sumElements (double)
 + sum (Vector v)
 + mult (s: double)
 + printC()

Relaciones 2'5 /3

Cardinalidad 0'8 /1

Atributos 2'5 /2'5

Métodos 2'2 /2'5

Tipos 0'5 /0'5

Visibilidad 0'5 /0'5