

public

scripts

client

Client

- connectionType

- slaves

- clientStorage

- animation

- sync

+ displayColor()

+ displayOrientationColors()

+ reset()

+ startCounterEvent()

+ startVideoEvent()

+ startAnimation()

+ displayTrackingWindow()

Animation

- client

- middlePoints

- nextMiddlePoint

- timeToNextLine

- stopTime

+ animate()

+ animateLoop()

+ sendLine()

+ nextLineSetup()

+ stop()

ClientStorage

- stopTime

- lastFrameTime

+ animate()

+ startAnimation()

+ stopAnimation()

+ animationSketch()

+ newData()

+ addTriangulation()

+ perspectiveMatrix

tracking

ScreenTracker

- scale

- camera

- slaveScreen

- corners

- timeSinceLastEmit

- cube

+ track()

+ stop()

- drawCube()

- transform()

- calcPerspectiveMatrix()

- drawScreen

Cube

+ rotateAroundY()

+ project()

image\_processing

screen\_detection

Hull

Line

Point

SlaveFlowHandler

- prevSlaveID

- currSlaveID

- slaveIDs

- camera

- scale

- workflowStep

+ detect()

- detectScreens()

- detectOrientations()

- sendDataToClients()

Triangulation

Circle

Delaunay

MiddlePoint

Triangulation

AreaCornerCalculator

+ findAreaCorners

types

SocketIOEvents

«Enumeration» SharedEventTypes

- NotifyOfTypeChange

- TimeSyncClient

- TimeSynServer

«Enumeration» SlaveEventTypes

- ChangeBackground

- ChangeOrientationColors

- SetCounterEvent

- StartVideo

«Enumeration» MasterEventTypes

- ChangeSlaveBackground

- ToggleSlaveOrientationColors

- NotifySlavesOfStartTimeCounter

- StartVideoOnSlaves

«Enumeration» ConnectionType

- SLAVE

- MASTER

UIMaster

Camera

- preferredResolutionWidth

- preferredResolutioHeight

+ applyBigGaussianBlur()

+ applySharpen()

+ applySobelEdgeFilter()

+ detectBigColorDifferences()

+ pointsToImgData()

+ filter8Neighbors()

+ filterToAreas()

+ findDiagonals()

CameraOverlay

util

BoundingBox

SlaveScreen

- corners

- slaveID

- angle

+ sortCornersByAngle()

+ mapMasterToActualCornerLabel()

+ mapActualToMasterCornerLabel()

Sync

css

html

img

tests

color\_detection

img

image\_processing

index.ts

server

Connections

- connections

+ add(connection)

+ remove(connection)

+ getSocketFromId()

+ changeMaster()

- notifyMasterOfSlaves()

HandleImageUpload

BinaryToImageFile

types

SocketIOEvents

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«Enumeration» ConnectionType

- SLAVE

- MASTER

Extra Packages

socket.io

express

jquery

jquery

gulp