

DBOX-MTCT

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# Chapter 1

## Hierarchical Index

### 1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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## Chapter 2

# Class Index

### 2.1 Class List

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

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ExtractionTester	6
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Helper	8
ISOConverter	9
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MinutiaeMarkerConfig	12
MinutiaeMarkerSettings	13
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qt_meta_stringdata_ISOConverter_t	17
qt_meta_stringdata_MainWindow_t	17
qt_meta_stringdata_MinutiaeChecker_t	17
qt_meta_stringdata_MinutiaeMarker_t	18
qt_meta_stringdata_MouseFingerprintScene_t	18
qt_meta_stringdata_NetworkTrainer_t	18
qt_meta_stringdata_QCP_t	18
qt_meta_stringdata_QCPAbstractItem_t	19
qt_meta_stringdata_QCPAbstractLegendItem_t	19
qt_meta_stringdata_QCPAbstractPlottable_t	19
qt_meta_stringdata_QCPAxis_t	19
qt_meta_stringdata_QCPAxisRect_t	20
qt_meta_stringdata_QCPAxisTicker_t	20
qt_meta_stringdata_QCPAxisTickerFixed_t	20

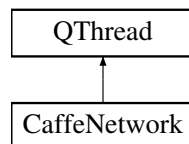
qt_meta_stringdata_QCPAxisTickerPi_t	20
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## Chapter 3

# Class Documentation

### 3.1 CaffeNetwork Class Reference

Inheritance diagram for CaffeNetwork:



#### Signals

- void **logSignal** (QString, QString)
- void **updateProgressBarSignal** (QString, int, QString)

#### Public Member Functions

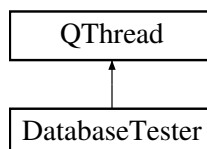
- std::vector< Prediction > **classify** (const cv::Mat img)
- std::vector< vector< Prediction > > **classifyBatch** (const vector< cv::Mat > imgs, int num\_classes)
- bool **getNetworkLoaded** () const

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/caffenetwork.h
- /home/peterhutas/QtProjects/DBOX-MTCT/caffenetwork.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_caffenetwork.cpp

### 3.2 DatabaseTester Class Reference

Inheritance diagram for DatabaseTester:



## Signals

- void **logSignal** (const QString logFieldName, const QString text)
- void **updateProgressBarSignal** (QString barName, int value, QString text="")
- void **warningSignal** (const QString type, const QString text, QString subject="")
- void **drawGraphSignal** (DBTEST\_RESULT results)
- void **clearLog** (QString objectName)

## Public Member Functions

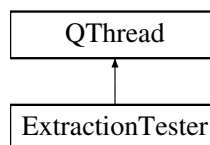
- void **setDbInputPath** (const QString &value)
- QString **getDbInputPath** () const
- void **setExtractionFeatures** (MATCHER matcher, bool useVarBlockSize, bool useOrientationFixer)
- void **setPreprocessingParams** (int blockSize, int basicOMapBlockSize, int advancedOMapBlockSize, double basicOMapSigma, double advancedOMapSigma, double gaborSigma, double gaborLambda)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/databasetester.h
- /home/peterhutas/QtProjects/DBOX-MTCT/databasetester.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_databasetester.cpp

## 3.3 ExtractionTester Class Reference

Inheritance diagram for ExtractionTester:



## Signals

- void **preprocessingResultsSignal** (cv::Mat imgOrig, cv::Mat imgOMap, cv::Mat imgEnhanced, cv::Mat imgBinarized, cv::Mat imgSkeleton, cv::Mat imgSkeletonInv, cv::Mat imgMask, cv::Mat imgQMap, cv::Mat imgFMap)
- void **sendLogSignal** (QString field, QString text)
- void **extractionResultsSignal** (cv::Mat imgSkeleton, QVector< MINUTIA > crossingNumber, QVector< MINUTIA > fixedOrientations, QVector< MINUTIA > checkedMnutiae)
- void **startPreprocessing** ()

## Public Member Functions

- QString **getInputPath** () const
- void **setInputPath** (const QString &value)
- void **setPreprocessingParams** (int blockSize, int basicOMapBlockSize, int advancedOMapBlockSize, double basicOMapSigma, double advancedOMapSigma, double gaborSigma, double gaborLambda, int holeSize)
- void **setFeatures** (bool useContrastEnhancement, bool useAdvancedOrientationMap, bool useRemoveHoles, bool generateInvertedSkeleton, bool useMask, bool useQualityMap, bool useFrequencyMap)
- void **setExtractionFeatures** (int useOrientationFixer, int useVarBlockSize)
- cv::Mat **getImgOrig** () const
- void **setImgOrig** (const cv::Mat &value)
- cv::Mat **getImgSkeleton** () const
- cv::Mat **getImgSkeletonInv** () const
- cv::Mat **getImgOMap** () const
- cv::Mat **getImgQMap** () const
- cv::Mat **getImgFMap** () const
- bool **getIsImgLoaded** () const
- QVector< MINUTIA > **getCrossingNumber** () const
- QVector< MINUTIA > **getFixedOrientations** () const
- QVector< MINUTIA > **getCheckedMnutiae** () const

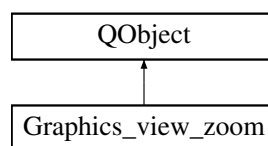
The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/extractiontester.h
- /home/peterhutas/QtProjects/DBOX-MTCT/extractiontester.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_extractiontester.cpp

## 3.4 Graphics\_view\_zoom Class Reference

```
#include <graphics_view_zoom.h>
```

Inheritance diagram for Graphics\_view\_zoom:



## Signals

- void **zoomed** ()

## Public Member Functions

- **Graphics\_view\_zoom** (QGraphicsView \*view)
- void **gentle\_zoom** (double factor)
- void **set\_modifiers** (Qt::KeyboardModifiers modifiers)
- void **set\_zoom\_factor\_base** (double value)
- QGraphicsView \* **view** () const
- void **setView** (QGraphicsView \*view)

### 3.4.1 Detailed Description

This class adds ability to zoom QGraphicsView using mouse wheel. The point under cursor remains motionless while it's possible.

Note that it becomes not possible when the scene's size is not large enough comparing to the viewport size. QGraphicsView centers the picture when it's smaller than the view. And QGraphicsView's scrolls boundaries don't allow to put any picture point at any viewport position.

When the user starts scrolling, this class remembers original scene position and keeps it until scrolling is completed. It's better than getting original scene position at each scrolling step because that approach leads to position errors due to before-mentioned positioning restrictions.

When zommed using scroll, this class emits zoomed() signal.

Usage:

```
new Graphics_view_zoom(view);
```

The object will be deleted automatically when the view is deleted.

You can set keyboard modifiers used for zooming using set\_modified(). Zooming will be performed only on exact match of modifiers combination. The default modifier is Ctrl.

You can change zoom velocity by calling set\_zoom\_factor\_base(). Zoom coefficient is calculated as  $\text{zoom\_factor} \leftarrow \text{\_base}^{\text{angle\_delta}}$  (see QWheelEvent::angleDelta). The default zoom factor base is 1.0015.

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/graphics\_view\_zoom.h
- /home/peterhutas/QtProjects/DBOX-MTCT/graphics\_view\_zoom.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_graphics\_view\_zoom.cpp

## 3.5 Helper Class Reference

### Static Public Member Functions

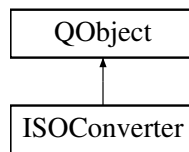
- static QImage **Mat2QImage** (cv::Mat const &mat, QImage::Format format)
- static cv::Mat **QImage2Mat** (QImage const &img, int format)
- static cv::Mat **array\_uchar2mat\_uchar** (const af::array &input)
- static cv::Mat **array\_float2mat\_float** (const af::array &input)
- static af::array **mat\_uchar2array\_uchar** (const cv::Mat &input)
- static af::array **mat\_double2array\_double** (const cv::Mat &mat)
- static void **af\_normalizeImage** (af::array &in)
- static af::array **mat\_float2array\_float** (const cv::Mat &mat)
- static af::array **mat\_uchar2array\_float** (const cv::Mat &mat)
- static QByteArray **IntToQByteArray** (int x)
- static QByteArray **QStringToQByteArray** (const QString &x)

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

- /home/peterhutas/QtProjects/DBOX-MTCT/helper.h

## 3.6 ISOConverter Class Reference

Inheritance diagram for ISOConverter:



### Public Member Functions

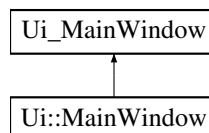
- **ISOConverter** (QObject \*parent=nullptr)
- **ISOConverter** (int \_fpHeight, int \_fpWidth, int \_fpQuality, MINUTIAE\_VECTOR \_minData)
- int **getFpHeight** () const
- void **setFpHeight** (int value)
- int **getFpWidth** () const
- void **setFpWidth** (int value)
- int **getFpQuality** () const
- void **setFpQuality** (int value)
- MINUTIAE\_VECTOR **getMinData** () const
- void **setMinData** (const MINUTIAE\_VECTOR &value)
- int **getTemplateSize** () const
- void **setTemplateSize** (int value)
- unsigned char \* **convert** ()
- void **saveToFile** (const QString &)
- void **load** (int \_fpHeight, int \_fpWidth, int \_fpQuality, MINUTIAE\_VECTOR \_minData)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/isoconverter.h
- /home/peterhutas/QtProjects/DBOX-MTCT/isoconverter.cpp

## 3.7 Ui::MainWindow Class Reference

Inheritance diagram for Ui::MainWindow:



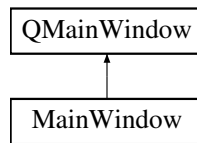
### Additional Inherited Members

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

- /home/peterhutas/QtProjects/DBOX-MTCT/ui\_mainwindow.h

### 3.8 MainWindow Class Reference

Inheritance diagram for MainWindow:



#### Signals

- void **predictHeatmapSignal** (QImage, int, bool)
- void **predictMinutiaSignal** (QImage, QPoint, int, bool)
- void **updateMinutiaeSignal** (QString, QString)
- void **questionBoxAnswerSignal** (bool answer)
- void **startTrainSignal** (bool rotations, bool blur, bool irisblur, int, int)
- void **startDBTestingSignal** (MATCHER matcher, int numOfSubject, int imgPerSubject)
- void **startExTestingSignal** ()

#### Public Member Functions

- **MainWindow** (QWidget \*parent=0)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/mainwindow.h
- /home/peterhutas/QtProjects/DBOX-MTCT/mainwindow.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_mainwindow.cpp

### 3.9 Minutia Class Reference

#### Public Member Functions

- **Minutia** (QPoint)
- **Minutia** (QPoint, int, int, bool)
- **Minutia** (QPoint, int, int, std::string, [MinutiaComboboxItem](#))
- QPoint **getCoordinates** () const
- void **setCoordinates** (const QPoint &value)
- int **getWidth** () const
- void **setWidth** (int value)
- int **getHeight** () const
- void **setHeight** (int value)
- std::string **getImgPath** () const
- void **setImgPath** (const std::string &value)
- [MinutiaComboboxItem](#) **getType** () const
- void **setType** (const [MinutiaComboboxItem](#) &value)
- bool **getCreatedInDragAndDropMode** () const
- void **setCreatedInDragAndDropMode** (bool value)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/minutia.h
- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/minutia.cpp



## 3.10 MinutiaComboboxItem Class Reference

### Public Member Functions

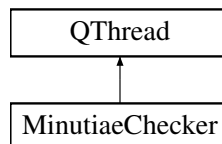
- **MinutiaComboboxItem** (std::string id, bool isActive, std::string name)
- **MinutiaComboboxItem** (std::string id, bool isActive, std::string name, std::string colorHexCode, std::string iconPath)
- std::string **getId** () const
- void **setId** (const std::string &value)
- bool **getIsActive** () const
- void **setIsActive** (bool value)
- std::string **getName** () const
- void **setName** (const std::string &value)
- std::string **getColorHexCode** () const
- void **setColorHexCode** (const std::string &value)
- std::string **getIconPath** () const
- void **setIconPath** (const std::string &value)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/Config/minutia\_comboboxitem.h
- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/Config/minutia\_comboboxitem.cpp

## 3.11 MinutiaeChecker Class Reference

Inheritance diagram for MinutiaeChecker:



### Signals

- void **loadModelSignal** (const QString, const QString, const QString, const QString)
- void **updateProgressBarSignal** (const QString barName, const int value, QString text="")
- void **heatmapReadySignal** (const QImage)
- void **sendPredictedMinutiaSignal** (const QPoint, const QVector< QPair< QString, float > >)

### Public Member Functions

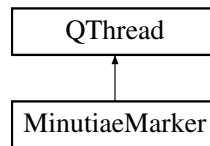
- QString **getImgInputPath** () const
- void **setImgInputPath** (const QString &value)
- QString **getModelInputFile** () const
- void **setModelInputFile** (const QString &value)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/minutiaechecker.h
- /home/peterhutas/QtProjects/DBOX-MTCT/minutiaechecker.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_minutiaechecker.cpp

### 3.12 MinutiaeMarker Class Reference

Inheritance diagram for MinutiaeMarker:



#### Signals

- void **updateProgressBarSignal** (QString barName, int value, QString text="")
- void **updateMinutiaeMarkerSceneSignal** (QString action)
- void **blocksSaved** ()

#### Public Member Functions

- QVector< [Minutia](#) > **getMinutiae** () const
- void **setMinutiae** (const QVector< [Minutia](#) > &value)
- QMap< QString, QVector< [Minutia](#) > > **getImages** () const
- void **insertImage** (QString imgName, QVector< [Minutia](#) > minutiae)
- void **removeMinutia** (int lineNum)
- void **removeAllBlocks** ()
- QImage **rotateBlock** (QImage &qBlock, int angle)
- QImage **irisBlurBlock** (QImage &qBlock, const double &blurValue, const double &irisBlurValue)
- QImage **blurBlock** (QImage &qBlock, const double &blurValue)
- QImage **sharpBlock** (QImage &qBlock)
- QImage **mirrorBlock** (QImage &img, bool mirrorHorizontal=true)
- void **generateBlocks** ()
- [MinutiaeMarkerSettings](#) \* **getSettings** () const
- void **setSettings** ([MinutiaeMarkerSettings](#) \*value)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/minutiaemarker.h
- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/minutiaemarker.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_minutiaemarker.cpp

### 3.13 MinutiaeMarkerConfig Class Reference

#### Static Public Member Functions

- static std::map< std::string, [MinutiaComboboxItem](#) > **getAllActiveMinutiaeTypes** ()
- static [MinutiaComboboxItem](#) **getMinutiaComboboxItemByName** (QString)

## Static Public Attributes

- static std::map< std::string, [MinutiaComboboxItem](#) > **TYPES**

### 3.13.1 Member Data Documentation

#### 3.13.1.1 TYPES

```
std::map< std::string, MinutiaComboboxItem > MinutiaeMarkerConfig::TYPES [static]
```

#### Initial value:

```
= {
    {"bifurcation",
     BIFURCATION",
     {"break",
      BREAK",
     {"bridge",
      BRIDGE",
     {"crossbar",
      CROSSBAR",
     {"dock",
      DOCK",
     {"dot",
      DOT",
     {"enclosure",
      ENCLOSURE",
     {"nothing",
      NOTHING",
     {"opposite_bifurcations",
      OPPOSITE_BIFURCATIONS",
     {"overlap",
      OVERLAP",
     {"return",
      RETURN",
     {"short_ridge",
      SHORT_RIDGE",
     {"spike",
      SPIKE",
     {"termination",
      TERMINATION",
     {"trifurcation",
      TRIFURCATION",
    {"bifurcation",
     MinutiaComboboxItem("bifurcation",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/BIFURCATION.png")},
    {"break",
     MinutiaComboboxItem("break",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/BREAK.png")},
    {"bridge",
     MinutiaComboboxItem("bridge",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/BRIDGE.png")},
    {"crossbar",
     MinutiaComboboxItem("crossbar",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/CROSSBAR.png")},
    {"dock",
     MinutiaComboboxItem("dock",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/DOCK.png")},
    {"dot",
     MinutiaComboboxItem("dot",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/DOT.png")},
    {"enclosure",
     MinutiaComboboxItem("enclosure",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/ENCLOSURE.png")},
    {"nothing",
     MinutiaComboboxItem("nothing",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/NOTHING.png")},
    {"opposite_bifurcations",
     MinutiaComboboxItem("opposite_bifurcations",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/OPPOSITE_BIFURCATIONS.png")},
    {"overlap",
     MinutiaComboboxItem("overlap",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/OVERLAP.png")},
    {"return",
     MinutiaComboboxItem("return",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/RETURN.png")},
    {"short_ridge",
     MinutiaComboboxItem("short_ridge",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/SHORT_RIDGE.png")},
    {"spike",
     MinutiaComboboxItem("spike",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/SPIKE.png")},
    {"termination",
     MinutiaComboboxItem("termination",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/TERMINATION.png")},
    {"trifurcation",
     MinutiaComboboxItem("trifurcation",
     true, "
     "#000000", ". /Resources/MinutiaeIcons/TRIFURCATION.png")}
```

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/Config/minutiaemarker\_config.h
- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/Config/minutiaemarker\_config.cpp

## 3.14 MinutiaeMarkerSettings Class Reference

### Public Attributes

- int **blocksize**
- int **additionalBlocks**
- [MinutiaComboboxItem](#) **selectedMinutiaType**
- bool **useRotation**

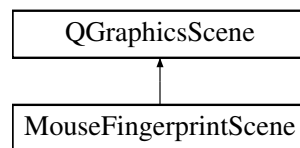
- bool **useBlur**
- double **blurValue**
- bool **useMirroring**
- bool **useIrisBlur**
- double **irisBlurValue**
- double **irisBlurRadius**
- QString **inputPath**
- QString **outputPath**
- QString **outputFormat**

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/minutiaemarker\_settings.h
- /home/peterhutas/QtProjects/DBOX-MTCT/MinutiaeMarker/minutiaemarker\_settings.cpp

### 3.15 MouseFingerprintScene Class Reference

Inheritance diagram for MouseFingerprintScene:



#### Public Types

- enum **MouseFingerprintSceneModes** { **CHECKER**, **CHECKER\_HEATMAP**, **MARKER**, **TRAINER** }

#### Signals

- void **pushMinutiaSignal** ([Minutia](#) minutia)
- void **predictMinutiaSignal** (QPoint point)
- void **setActualPositionSignal** (QPoint, bool, QPoint)

#### Public Member Functions

- void **setType** (const QString &value)
- void **setMode** (const MouseFingerprintSceneModes &value)
- void **setImgWidth** (int value)
- void **setImgHeight** (int value)

### Protected Member Functions

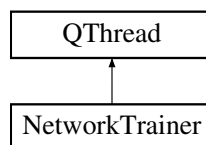
- void **mouseDoubleClickEvent** (QGraphicsSceneMouseEvent \*event)
- void **mouseMoveEvent** (QGraphicsSceneMouseEvent \*event)
- void **mousePressEvent** (QGraphicsSceneMouseEvent \*event)
- void **mouseReleaseEvent** (QGraphicsSceneMouseEvent \*event)
- void **keyPressEvent** (QKeyEvent \*event)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/mousefingerprintsscene.h
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_mousefingerprintsscene.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/mousefingerprintsscene.cpp

## 3.16 NetworkTrainer Class Reference

Inheritance diagram for NetworkTrainer:



### Signals

- void **convertImagesetSignal** (QVector< QPair< QString, int >>, QString, QString)
- void **logSignal** (QString, QString)
- void **updateProgressBarSignal** (QString barName, int value, QString text="")
- void **clearLog** (QString objectName)

### Public Member Functions

- QString **getImgInputPath** () const
- void **setImgInputPath** (const QString &value)
- QString **getOutputPath** () const
- void **setOutputPath** (const QString &value)
- QString **getFileFormat** () const
- void **setFileFormat** (const QString &value)

The documentation for this class was generated from the following files:

- /home/peterhutas/QtProjects/DBOX-MTCT/networktrainer.h
- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_networktrainer.cpp
- /home/peterhutas/QtProjects/DBOX-MTCT/networktrainer.cpp

### 3.17 QMatConverter Class Reference

#### Static Public Member Functions

- static QImage **Mat2QImage** (cv::Mat const &mat, QImage::Format format)
- static cv::Mat **QImage2Mat** (QImage const &img, int format)

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

- /home/peterhutas/QtProjects/DBOX-MTCT/qmatconverter.h

### 3.18 qt\_meta\_stringdata\_CaffeNetwork\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [14]
- char **stringdata0** [172]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_caffenetwork.cpp

### 3.19 qt\_meta\_stringdata\_DatabaseTester\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [29]
- char **stringdata0** [392]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_databasetester.cpp

### 3.20 qt\_meta\_stringdata\_ExtractionTester\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [34]
- char **stringdata0** [497]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_extractiontester.cpp

## 3.21 qt\_meta\_stringdata\_Graphics\_view\_zoom\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [3]
- char **stringdata0** [27]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_graphics\_view\_zoom.cpp

## 3.22 qt\_meta\_stringdata\_ISOConverter\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [1]
- char **stringdata0** [13]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_isoconverter.cpp

## 3.23 qt\_meta\_stringdata\_MainWindow\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [106]
- char **stringdata0** [2453]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_mainwindow.cpp

## 3.24 qt\_meta\_stringdata\_MinutiaeChecker\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [17]
- char **stringdata0** [234]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_minutiaechecker.cpp

### 3.25 qt\_meta\_stringdata\_MinutiaeMarker\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [14]
- char **stringdata0** [165]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_minutiaemarker.cpp

### 3.26 qt\_meta\_stringdata\_MouseFingerprintScene\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [8]
- char **stringdata0** [108]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_mousefingerprintsene.cpp

### 3.27 qt\_meta\_stringdata\_NetworkTrainer\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [21]
- char **stringdata0** [250]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_networktrainer.cpp

### 3.28 qt\_meta\_stringdata\_QCP\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [62]
- char **stringdata0** [713]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp



### 3.29 qt\_meta\_stringdata\_QCPAbstractItem\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [11]
- char **stringdata0** [139]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.30 qt\_meta\_stringdata\_QCPAbstractLegendItem\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [14]
- char **stringdata0** [174]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.31 qt\_meta\_stringdata\_QCPAbstractPlottable\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [21]
- char **stringdata0** [270]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.32 qt\_meta\_stringdata\_QCPAxis\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [84]
- char **stringdata0** [1044]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.33 qt\_meta\_stringdata\_QCPAxisRect\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [8]
- char **stringdata0** [118]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.34 qt\_meta\_stringdata\_QCPAxisTicker\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [4]
- char **stringdata0** [63]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.35 qt\_meta\_stringdata\_QCPAxisTickerFixed\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [5]
- char **stringdata0** [61]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.36 qt\_meta\_stringdata\_QCPAxisTickerPi\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [5]
- char **stringdata0** [82]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.37 qt\_meta\_stringdata\_QCPAxisTickerTime\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [7]
- char **stringdata0** [77]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.38 qt\_meta\_stringdata\_QCPBars\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [14]
- char **stringdata0** [147]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.39 qt\_meta\_stringdata\_QCPBarsGroup\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [7]
- char **stringdata0** [85]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.40 qt\_meta\_stringdata\_QCPColorGradient\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [17]
- char **stringdata0** [164]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.41 qt\_meta\_stringdata\_QCPColorMap\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [25]
- char **stringdata0** [334]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.42 qt\_meta\_stringdata\_QCPColorScale\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [23]
- char **stringdata0** [278]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.43 qt\_meta\_stringdata\_QCPColorScaleAxisRectPrivate\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [7]
- char **stringdata0** [128]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.44 qt\_meta\_stringdata\_QCPCurve\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [8]
- char **stringdata0** [84]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.45 qt\_meta\_stringdata\_QCPErrors\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [11]
- char **stringdata0** [163]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.46 qt\_meta\_stringdata\_QCPFinancial\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [16]
- char **stringdata0** [185]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.47 qt\_meta\_stringdata\_QCPGraph\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [15]
- char **stringdata0** [174]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.48 qt\_meta\_stringdata\_QCPGrid\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [7]
- char **stringdata0** [89]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.49 qt\_meta\_stringdata\_QCPIItemAnchor\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [1]
- char **stringdata0** [14]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.50 qt\_meta\_stringdata\_QCPIItemBracket\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [10]
- char **stringdata0** [97]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.51 qt\_meta\_stringdata\_QCPIItemCurve\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [6]
- char **stringdata0** [53]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.52 qt\_meta\_stringdata\_QCPIItemEllipse\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [5]
- char **stringdata0** [51]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.53 qt\_meta\_stringdata\_QCPItemLine\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [6]
- char **stringdata0** [52]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.54 qt\_meta\_stringdata\_QCPItemPixmap\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [9]
- char **stringdata0** [122]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.55 qt\_meta\_stringdata\_QCPItemPosition\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [6]
- char **stringdata0** [85]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.56 qt\_meta\_stringdata\_QCPItemRect\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [5]
- char **stringdata0** [48]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.57 qt\_meta\_stringdata\_QCPIItemStraightLine\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [3]
- char **stringdata0** [36]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.58 qt\_meta\_stringdata\_QCPIItemText\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [16]
- char **stringdata0** [163]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.59 qt\_meta\_stringdata\_QCPIItemTracer\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [17]
- char **stringdata0** [156]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.60 qt\_meta\_stringdata\_QCPLayer\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [12]
- char **stringdata0** [118]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp



## 3.61 qt\_meta\_stringdata\_QCPLayerable\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [13]
- char **stringdata0** [135]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.62 qt\_meta\_stringdata\_QCPLayout\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [1]
- char **stringdata0** [10]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.63 qt\_meta\_stringdata\_QCPLayoutElement\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [14]
- char **stringdata0** [151]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.64 qt\_meta\_stringdata\_QCPLayoutGrid\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [13]
- char **stringdata0** [165]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.65 qt\_meta\_stringdata\_QCPLayoutInset\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [4]
- char **stringdata0** [53]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.66 qt\_meta\_stringdata\_QCPLegend\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [27]
- char **stringdata0** [358]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.67 qt\_meta\_stringdata\_QCPLineEnding\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [12]
- char **stringdata0** [124]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.68 qt\_meta\_stringdata\_QCPMarginGroup\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [1]
- char **stringdata0** [15]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.69 qt\_meta\_stringdata\_QCPainter\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [7]
- char **stringdata0** [85]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.70 qt\_meta\_stringdata\_QCPlottableLegendItem\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [1]
- char **stringdata0** [23]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.71 qt\_meta\_stringdata\_QCScatterStyle\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [28]
- char **stringdata0** [285]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.72 qt\_meta\_stringdata\_QCSelectionDecorator\_t Struct Reference

### Public Attributes

- QByteArrayData **data** [1]
- char **stringdata0** [22]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.73 qt\_meta\_stringdata\_QCPSelectionDecoratorBracket\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [7]
- char **stringdata0** [101]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.74 qt\_meta\_stringdata\_QCPSelectionRect\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [11]
- char **stringdata0** [96]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.75 qt\_meta\_stringdata\_QCPStatisticalBox\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [9]
- char **stringdata0** [120]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

### 3.76 qt\_meta\_stringdata\_QCPTextElement\_t Struct Reference

#### Public Attributes

- QByteArrayData **data** [17]
- char **stringdata0** [189]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.77 qt\_meta\_stringdata\_QCustomPlot\_t Struct Reference

### Public Attributes

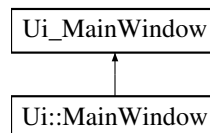
- QByteArrayData **data** [64]
- char **stringdata0** [914]

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

- /home/peterhutas/QtProjects/DBOX-MTCT/moc\_qcustomplot.cpp

## 3.78 Ui\_MainWindow Class Reference

Inheritance diagram for Ui\_MainWindow:



### Public Member Functions

- void **setupUi** (QMainWindow \*[MainWindow](#))
- void **retranslateUi** (QMainWindow \*[MainWindow](#))

### Public Attributes

- QWidget \* **centralWidget**
- QVBoxLayout \* **verticalLayout\_8**
- QTabWidget \* **tabWidget\_main**
- QWidget \* **tab\_marker**
- QHBoxLayout \* **horizontalLayout\_6**
- QVBoxLayout \* **verticalLayout\_5**
- QGroupBox \* **groupBox\_marker\_inputImages**
- QVBoxLayout \* **verticalLayout\_9**
- QVBoxLayout \* **verticalLayout\_3**
- QPushButton \* **pushButton\_inputDirectory**
- QListWidget \* **listWidget\_inputImages**
- QGroupBox \* **groupBox\_marker\_settings**
- QVBoxLayout \* **verticalLayout\_67**
- QHBoxLayout \* **horizontalLayout\_minutiaeBlockSize**
- QLabel \* **label\_minutiaeBlockSize**
- QSpinBox \* **spinBox\_minutiaeBlockSize**
- QHBoxLayout \* **horizontalLayout\_25**
- QLabel \* **label\_additionalBlocks**
- QSpinBox \* **spinBox\_additionalBlocks**
- QGroupBox \* **groupBox\_minutiaeType**

- QVBoxLayout \* **verticalLayout\_2**
- QComboBox \* **comboBox\_minutiaeTypes**
- QGroupBox \* **groupBox\_transformations**
- QVBoxLayout \* **verticalLayout**
- QCheckBox \* **checkBox\_marker\_rotations**
- QHBoxLayout \* **horizontalLayout\_17**
- QCheckBox \* **checkBox\_marker\_blur**
- QSpacerItem \* **horizontalSpacer\_9**
- QDoubleSpinBox \* **doubleSpinBox\_marker\_blur**
- QCheckBox \* **checkBox\_marker\_mirroring**
- QGroupBox \* **groupBox\_marker\_irisBlur**
- QGridLayout \* **gridLayout\_7**
- QLabel \* **label\_irisBlur\_blur**
- QLabel \* **label\_irisBlur\_radius**
- QDoubleSpinBox \* **doubleSpinBox\_marker\_irisBlur\_blur**
- QDoubleSpinBox \* **doubleSpinBox\_marker\_irisBlur\_radius**
- QGroupBox \* **groupBox\_fingerprintImage**
- QVBoxLayout \* **verticalLayout\_6**
- QGraphicsView \* **graphicsView\_fingerprintMarker**
- QVBoxLayout \* **verticalLayout\_18**
- QGroupBox \* **groupBox\_blockPreview**
- QHBoxLayout \* **horizontalLayout\_24**
- QVBoxLayout \* **verticalLayout\_33**
- QHBoxLayout \* **horizontalLayout\_18**
- QSpacerItem \* **horizontalSpacer\_13**
- QGraphicsView \* **graphicsView\_blockOrig**
- QSpacerItem \* **horizontalSpacer\_10**
- QHBoxLayout \* **horizontalLayout\_19**
- QSpacerItem \* **horizontalSpacer\_14**
- QLabel \* **label\_blockOrig**
- QSpacerItem \* **horizontalSpacer\_15**
- QVBoxLayout \* **verticalLayout\_34**
- QHBoxLayout \* **horizontalLayout\_20**
- QSpacerItem \* **horizontalSpacer\_16**
- QGraphicsView \* **graphicsView\_blockBlur**
- QSpacerItem \* **horizontalSpacer\_17**
- QHBoxLayout \* **horizontalLayout\_21**
- QSpacerItem \* **horizontalSpacer\_18**
- QLabel \* **label\_blockBlur**
- QSpacerItem \* **horizontalSpacer\_19**
- QVBoxLayout \* **verticalLayout\_35**
- QHBoxLayout \* **horizontalLayout\_22**
- QSpacerItem \* **horizontalSpacer\_20**
- QGraphicsView \* **graphicsView\_blockIrisBlur**
- QSpacerItem \* **horizontalSpacer\_21**
- QHBoxLayout \* **horizontalLayout\_23**
- QSpacerItem \* **horizontalSpacer\_22**
- QLabel \* **label\_blockIrisBlur**
- QSpacerItem \* **horizontalSpacer\_23**
- QGroupBox \* **groupBox\_marker\_minutiaeList**
- QVBoxLayout \* **verticalLayout\_4**
- QTableWidgetItem \* **tableWidget\_minutiae**
- QGroupBox \* **groupBox\_output**
- QVBoxLayout \* **verticalLayout\_10**
- QHBoxLayout \* **horizontalLayout\_5**

- QLabel \* **label\_outputPath**
- QLineEdit \* **lineEdit\_marker\_outputDirectory**
- QHBoxLayout \* **horizontalLayout\_4**
- QSpacerItem \* **horizontalSpacer\_2**
- QPushButton \* **pushButton\_marker\_outputDirectory**
- QSpacerItem \* **verticalSpacer\_6**
- QSpacerItem \* **verticalSpacer\_4**
- QHBoxLayout \* **horizontalLayout**
- QLabel \* **label\_outputFormat**
- QComboBox \* **comboBox\_outputFormat**
- QSpacerItem \* **horizontalSpacer**
- QPushButton \* **pushButton\_marker\_saveBlocks**
- QProgressBar \* **progressBar\_savingBlocks**
- QWidget \* **tab\_trainer**
- QHBoxLayout \* **horizontalLayout\_51**
- QGroupBox \* **groupBox\_netTrainer\_input**
- QVBoxLayout \* **verticalLayout\_19**
- QPushButton \* **pushButton\_netTrainer\_input**
- QLabel \* **label\_trainerInputDirectory**
- QTreeView \* **treeView\_netTrainer\_input**
- QVBoxLayout \* **verticalLayout\_24**
- QGroupBox \* **groupBox\_netTrainer\_settings**
- QHBoxLayout \* **horizontalLayout\_50**
- QVBoxLayout \* **verticalLayout\_64**
- QHBoxLayout \* **horizontalLayout\_48**
- QGroupBox \* **groupBox\_netTrainer\_inputBlocks**
- QVBoxLayout \* **verticalLayout\_20**
- QCheckBox \* **checkBox\_netTrainer\_original**
- QCheckBox \* **checkBox\_netTrainer\_rotation**
- QCheckBox \* **checkBox\_netTrainer\_blurred**
- QCheckBox \* **checkBox\_netTrainer\_irisBlurred**
- QSpacerItem \* **verticalSpacer\_7**
- QVBoxLayout \* **verticalLayout\_23**
- QGroupBox \* **groupBox\_netTrainer\_trainingSettings**
- QVBoxLayout \* **verticalLayout\_21**
- QGridLayout \* **gridLayout\_2**
- QSpinBox \* **spinBox\_netTrainer\_testSet**
- QSpinBox \* **spinBox\_netTrainer\_trainSet**
- QLabel \* **label\_netTrainer\_testSet**
- QLabel \* **label\_netTrainer\_trainSet**
- QGroupBox \* **groupBox\_netTrainer\_mode**
- QHBoxLayout \* **horizontalLayout\_8**
- QRadioButton \* **radioButton\_netTrainer\_cpu**
- QRadioButton \* **radioButton\_netTrainer\_gpu**
- QGroupBox \* **groupBox\_netTrainer\_output**
- QHBoxLayout \* **horizontalLayout\_13**
- QLabel \* **label\_netTrainer\_outputFolder**
- QLineEdit \* **lineEdit\_netTrainer\_outputFolder**
- QPushButton \* **pushButton\_netTrainer\_outputFolder**
- QGroupBox \* **groupBox\_netTrainer\_solverParams**
- QVBoxLayout \* **verticalLayout\_22**
- QHBoxLayout \* **horizontalLayout\_7**
- QLabel \* **label\_netTrainer\_model**
- QLineEdit \* **lineEdit\_netTrainer\_model**
- QPushButton \* **pushButton\_netTrainer\_model**

- QHBoxLayout \* **horizontalLayout\_9**
- QGridLayout \* **gridLayout\_3**
- QLabel \* **label\_netTrainer\_testIterations**
- QSpinBox \* **spinBox\_netTrainer\_testIterations**
- QLabel \* **label\_netTrainer\_testInterval**
- QSpinBox \* **spinBox\_netTrainer\_testInterval**
- QLabel \* **label\_netTrainer\_maxIterations**
- QSpinBox \* **spinBox\_netTrainer\_maxIterations**
- QLabel \* **label\_netTrainer\_snapshotInterval**
- QSpinBox \* **spinBox\_netTrainer\_snapshotInterval**
- QLabel \* **label\_netTrainer\_snapshotPrefix**
- QLineEdit \* **lineEdit\_netTrainer\_snapshotPrefix**
- QSpacerItem \* **horizontalSpacer\_4**
- QGridLayout \* **gridLayout\_5**
- QLabel \* **label\_netTrainer\_baseLearningRate**
- QDoubleSpinBox \* **doubleSpinBox\_netTrainer\_baseLearningRate**
- QLabel \* **label\_netTrainer\_momentum**
- QDoubleSpinBox \* **doubleSpinBox\_netTrainer\_momentum**
- QLabel \* **label\_netTrainer\_weightDecay**
- QDoubleSpinBox \* **doubleSpinBox\_netTrainer\_weightDecay**
- QLabel \* **label\_netTrainer\_gamma**
- QDoubleSpinBox \* **doubleSpinBox\_netTrainer\_gamma**
- QLabel \* **label\_netTrainer\_power**
- QDoubleSpinBox \* **doubleSpinBox\_netTrainer\_power**
- QGroupBox \* **groupBox\_netTrainer\_training**
- QVBoxLayout \* **verticalLayout\_25**
- QTextBrowser \* **textBrowser\_netTrainer\_log**
- QHBoxLayout \* **horizontalLayout\_12**
- QLabel \* **label\_netTrainer\_progress**
- QProgressBar \* **progressBar\_netTrainer\_progress**
- QPushButton \* **pushButton\_netTrainer\_startTraining**
- QWidget \* **tab\_checker**
- QHBoxLayout \* **horizontalLayout\_53**
- QVBoxLayout \* **verticalLayout\_15**
- QGroupBox \* **groupBox\_inputModel**
- QVBoxLayout \* **verticalLayout\_14**
- QPushButton \* **pushButton\_inputModel**
- QSpacerItem \* **verticalSpacer\_2**
- QLabel \* **label\_selectedModel**
- QLabel \* **label\_selectedModelName**
- QGroupBox \* **groupBox\_inputImages\_2**
- QVBoxLayout \* **verticalLayout\_12**
- QPushButton \* **pushButton\_inputDirectory\_2**
- QListWidget \* **listWidget\_inputImages\_2**
- QGroupBox \* **groupBox\_fingerprintImage\_2**
- QVBoxLayout \* **verticalLayout\_11**
- QGraphicsView \* **graphicsView\_fingerprintChecker**
- QVBoxLayout \* **verticalLayout\_66**
- QGroupBox \* **groupBox\_minChecker\_checkSettings**
- QHBoxLayout \* **horizontalLayout\_11**
- QGroupBox \* **groupBox\_minChecker\_mode**
- QVBoxLayout \* **verticalLayout\_16**
- QRadioButton \* **radioButton\_minChecker\_cpuMode**
- QRadioButton \* **radioButton\_minChecker\_gpuMode**
- QGroupBox \* **groupBox\_minChecker\_extactionSettings**



- QVBoxLayout \* **verticalLayout\_26**
- QHBoxLayout \* **horizontalLayout\_3**
- QLabel \* **label\_checkBlockSize**
- QSpinBox \* **spinBox\_checkBlockSize**
- QCheckBox \* **checkBox\_variableBlockSize**
- QGroupBox \* **groupBox\_\_minChecker\_checkMode**
- QVBoxLayout \* **verticalLayout\_65**
- QHBoxLayout \* **horizontalLayout\_10**
- QRadioButton \* **radioButton\_standard**
- QSpacerItem \* **horizontalSpacer\_6**
- QLabel \* **label\_threshold**
- QSpinBox \* **spinBox\_threshold**
- QSpacerItem \* **horizontalSpacer\_7**
- QHBoxLayout \* **horizontalLayout\_2**
- QRadioButton \* **radioButton\_heatmap**
- QSpacerItem \* **horizontalSpacer\_3**
- QLabel \* **label\_overlay**
- QSlider \* **horizontalSlider\_overlay**
- QGroupBox \* **groupBox\_heatmapCreationProgress**
- QVBoxLayout \* **verticalLayout\_17**
- QProgressBar \* **progressBar\_heatmap**
- QSpacerItem \* **verticalSpacer\_3**
- QGroupBox \* **groupBox\_foundedMinutia**
- QVBoxLayout \* **verticalLayout\_13**
- QTableWidget \* **tableWidget\_foundedMinutia**
- QSpacerItem \* **verticalSpacer**
- QWidget \* **tab\_extractionTester**
- QHBoxLayout \* **horizontalLayout\_42**
- QVBoxLayout \* **verticalLayout\_7**
- QGroupBox \* **groupBox\_exTester\_inputImages**
- QVBoxLayout \* **verticalLayout\_52**
- QHBoxLayout \* **horizontalLayout\_29**
- QPushButton \* **pushButton\_exTester\_inputDir**
- QLabel \* **label\_exTester\_inputImages**
- QHBoxLayout \* **horizontalLayout\_38**
- QListWidget \* **listWidget\_exTester\_inputImages**
- QVBoxLayout \* **verticalLayout\_41**
- QLabel \* **label\_exTester\_overlay**
- QHBoxLayout \* **horizontalLayout\_37**
- QSpacerItem \* **horizontalSpacer\_33**
- QSlider \* **verticalSlider\_exTester\_overlay**
- QSpacerItem \* **horizontalSpacer\_34**
- QTabWidget \* **tabWidget\_exTester\_settings**
- QWidget \* **tab\_6**
- QVBoxLayout \* **verticalLayout\_44**
- QGroupBox \* **groupBox\_exTester\_ParameterGeneral**
- QVBoxLayout \* **verticalLayout\_55**
- QHBoxLayout \* **horizontalLayout\_35**
- QLabel \* **label\_exTester\_BlockSize**
- QSpacerItem \* **horizontalSpacer\_32**
- QSpinBox \* **spinBox\_exTester\_BlockSize**
- QGroupBox \* **groupBox\_exTester\_ParameterOMap**
- QVBoxLayout \* **verticalLayout\_42**
- QLabel \* **label\_exTesterGaussianBlurBasic**
- QHBoxLayout \* **horizontalLayout\_32**

- QLabel \* **label\_exTester\_BasicOMapBlockSize**
- QSpinBox \* **spinBox\_exTester\_BasicOMapBlockSize**
- QSpacerItem \* **horizontalSpacer\_27**
- QLabel \* **label\_exTester\_BasicOMapSigma**
- QDoubleSpinBox \* **doubleSpinBox\_exTester\_BasicOMapSigma**
- QSpacerItem \* **verticalSpacer\_9**
- QLabel \* **label\_exTester\_GaussianBlurAdvanced**
- QHBoxLayout \* **horizontalLayout\_33**
- QLabel \* **label\_exTester\_AdvancedOMapBlockSize**
- QSpinBox \* **spinBox\_exTester\_AdvancedOMapBlockSize**
- QSpacerItem \* **horizontalSpacer\_30**
- QLabel \* **label\_exTester\_AdvancedOMapSigma**
- QDoubleSpinBox \* **doubleSpinBox\_exTester\_AdvancedOMapSigma**
- QGroupBox \* **groupBox\_exTester\_frequencyMap**
- QHBoxLayout \* **horizontalLayout\_39**
- QLabel \* **label\_exTester\_freqBlockSize**
- QSpinBox \* **spinBox\_exTester\_freqBlockSize**
- QSpacerItem \* **horizontalSpacer\_36**
- QLabel \* **label\_exTester\_freqExBlockSize**
- QSpinBox \* **spinBox\_exTester\_freqExBlockSize**
- QGroupBox \* **groupBox\_exTester\_ParameterGabor**
- QVBoxLayout \* **verticalLayout\_43**
- QHBoxLayout \* **horizontalLayout\_34**
- QLabel \* **label\_exTester\_GaborSigma**
- QDoubleSpinBox \* **doubleSpinBox\_exTester\_GaborSigma**
- QSpacerItem \* **horizontalSpacer\_31**
- QLabel \* **label\_exTester\_GaborLambda**
- QDoubleSpinBox \* **doubleSpinBox\_exTester\_GaborLambda**
- QWidget \* **tab\_7**
- QVBoxLayout \* **verticalLayout\_59**
- QGroupBox \* **groupBox\_2**
- QHBoxLayout \* **horizontalLayout\_45**
- QLabel \* **label\_exTester\_exBlockSize**
- QSpacerItem \* **horizontalSpacer\_39**
- QSpinBox \* **spinBox\_exTester\_exBlockSize**
- QGroupBox \* **groupBox\_exTester\_exResults**
- QVBoxLayout \* **verticalLayout\_60**
- QRadioButton \* **radioButton\_exTester\_crossingNumber**
- QRadioButton \* **radioButton\_exTester\_predictedMinutiae**
- QRadioButton \* **radioButton\_exTester\_fixedPredictedMinutiae**
- QWidget \* **tab\_features**
- QVBoxLayout \* **verticalLayout\_57**
- QGroupBox \* **groupBox\_exTester\_mode**
- QVBoxLayout \* **verticalLayout\_40**
- QHBoxLayout \* **horizontalLayout\_44**
- QRadioButton \* **radioButton\_exTester\_cpuMode**
- QSpacerItem \* **horizontalSpacer\_38**
- QLabel \* **label\_exTester\_threadNum**
- QSpinBox \* **spinBox\_exTester\_threadNum**
- QRadioButton \* **radioButton\_exTester\_gpuMode**
- QGroupBox \* **groupBox\_exTester\_preprocessing**
- QVBoxLayout \* **verticalLayout\_56**
- QCheckBox \* **checkBox\_exTester\_contrast**
- QHBoxLayout \* **horizontalLayout\_43**
- QCheckBox \* **checkBox\_exTester\_holeRemover**

- QSpacerItem \* **horizontalSpacer\_37**
- QLabel \* **label\_exTester\_removeHoles**
- QSpinBox \* **spinBox\_exTester\_holeSize**
- QCheckBox \* **checkBox\_exTester\_advancedOMap**
- QCheckBox \* **checkBox\_exTester\_mask**
- QCheckBox \* **checkBox\_exTester\_qualityMap**
- QGroupBox \* **groupBox\_exTester\_exFeatures\_2**
- QVBoxLayout \* **verticalLayout\_61**
- QCheckBox \* **checkBox\_exTester\_orientationFixer**
- QCheckBox \* **checkBox\_exTester\_varBlockSize**
- QTabWidget \* **tabWidget\_exTester\_results**
- QWidget \* **tab\_8**
- QGridLayout \* **gridLayout\_6**
- QVBoxLayout \* **verticalLayout\_45**
- QLabel \* **label\_exExter\_original**
- QGraphicsView \* **graphicsView\_exTester\_original**
- QVBoxLayout \* **verticalLayout\_46**
- QLabel \* **label\_exExter\_mask**
- QGraphicsView \* **graphicsView\_exTester\_mask**
- QVBoxLayout \* **verticalLayout\_47**
- QHBoxLayout \* **horizontalLayout\_36**
- QLabel \* **label\_exExter\_omap**
- QComboBox \* **comboBox\_exTester\_map**
- QGraphicsView \* **graphicsView\_exTester\_map**
- QSpacerItem \* **verticalSpacer\_10**
- QVBoxLayout \* **verticalLayout\_48**
- QLabel \* **label\_exExter\_enhanced**
- QGraphicsView \* **graphicsView\_exTester\_enhanced**
- QVBoxLayout \* **verticalLayout\_49**
- QLabel \* **label\_exExter\_binarized**
- QGraphicsView \* **graphicsView\_exTester\_binarized**
- QVBoxLayout \* **verticalLayout\_50**
- QHBoxLayout \* **horizontalLayout\_40**
- QLabel \* **label\_exExter\_skeleton**
- QCheckBox \* **checkBox\_exTester\_invertedSkeleton**
- QGraphicsView \* **graphicsView\_exTester\_skeleton**
- QWidget \* **tab\_extraction**
- QVBoxLayout \* **verticalLayout\_58**
- QGraphicsView \* **graphicsView\_exTester\_extraction**
- QWidget \* **tab\_large**
- QVBoxLayout \* **verticalLayout\_63**
- QHBoxLayout \* **horizontalLayout\_52**
- QSpacerItem \* **horizontalSpacer\_5**
- QComboBox \* **comboBox**
- QGraphicsView \* **graphicsView**
- QWidget \* **tab\_log**
- QVBoxLayout \* **verticalLayout\_51**
- QTextBrowser \* **textBrowser\_exTester\_log**
- QWidget \* **tab\_dbTester**
- QHBoxLayout \* **horizontalLayout\_28**
- QVBoxLayout \* **verticalLayout\_37**
- QTabWidget \* **tabWidget\_testerSettings**
- QWidget \* **tab\_3**
- QVBoxLayout \* **verticalLayout\_62**
- QHBoxLayout \* **horizontalLayout\_14**

- QPushButton \* **pushButton\_inputDatabase**
- QSpacerItem \* **horizontalSpacer\_8**
- QLabel \* **label\_selectedDbName**
- QSpacerItem \* **verticalSpacer\_5**
- QGridLayout \* **gridLayout\_4**
- QLabel \* **label\_numberOfSubject**
- QSpinBox \* **spinBox\_numberOfSubject**
- QSpacerItem \* **horizontalSpacer\_12**
- QLabel \* **label\_imagesPerSubject**
- QSpinBox \* **spinBox\_imagesPerSubject**
- QGroupBox \* **groupBox\_dbTester\_mode**
- QVBoxLayout \* **verticalLayout\_29**
- QHBoxLayout \* **horizontalLayout\_49**
- QRadioButton \* **radioButton\_dbTester\_cpuMode**
- QSpacerItem \* **horizontalSpacer\_42**
- QLabel \* **label\_dbTester\_threadNum**
- QSpinBox \* **spinBox\_dbTester\_threadNum**
- QRadioButton \* **radioButton\_dbTester\_gpuMode**
- QWidget \* **tab\_4**
- QVBoxLayout \* **verticalLayout\_54**
- QGroupBox \* **groupBox\_matcher**
- QHBoxLayout \* **horizontalLayout\_16**
- QRadioButton \* **radioButton\_matcherSuprema**
- QRadioButton \* **radioButton\_matcherBozorth**
- QGroupBox \* **groupBox\_dbTester\_preprocessing**
- QVBoxLayout \* **verticalLayout\_53**
- QCheckBox \* **checkBox\_dbTester\_contrastEnhancement**
- QCheckBox \* **checkBox\_dbTester\_advancedOrientationMap**
- QCheckBox \* **checkBox\_dbTester\_qualityMap**
- QCheckBox \* **checkBox\_dbTester\_mask**
- QCheckBox \* **checkBox\_dbTester\_invertedSkeleton**
- QHBoxLayout \* **horizontalLayout\_47**
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