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# Syntax Coloring Map for library MFRC522

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# KEYWORD1 Classes, datatypes, and C++ keywords

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MFRC522 KEYWORD1

MFRC522Extended KEYWORD1

PCD\_Register KEYWORD1

PCD\_Command KEYWORD1

PCD\_RxGain KEYWORD1

PICC\_Command KEYWORD1

MIFARE\_Misc KEYWORD1

PICC\_Type KEYWORD1

StatusCode KEYWORD1

TagBitRates KEYWORD1

Uid KEYWORD1

CardInfo KEYWORD1

MIFARE\_Key KEYWORD1

PcbBlock KEYWORD1

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# KEYWORD2 Methods and functions

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# Basic interface functions for communicating with the MFRC522

PCD\_WriteRegister KEYWORD2

PCD\_WriteRegister KEYWORD2

PCD\_ReadRegister KEYWORD2

PCD\_ReadRegister KEYWORD2

setBitMask KEYWORD2

PCD\_SetRegisterBitMask KEYWORD2

PCD\_ClearRegisterBitMask KEYWORD2

PCD\_CalculateCRC KEYWORD2

# Functions for manipulating the MFRC522

PCD\_Init KEYWORD2

PCD\_Reset KEYWORD2

PCD\_AntennaOn KEYWORD2

PCD\_AntennaOff KEYWORD2

PCD\_GetAntennaGain KEYWORD2

PCD\_SetAntennaGain KEYWORD2

PCD\_PerformSelfTest KEYWORD2

# Power control functions MFRC522

PCD\_SoftPowerDown KEYWORD2

PCD\_SoftPowerUp KEYWORD2

# Functions for communicating with PICCs

PCD\_TransceiveData KEYWORD2

PCD\_CommunicateWithPICC KEYWORD2

PICC\_RequestA KEYWORD2

PICC\_WakeupA KEYWORD2

PICC\_REQA\_or\_WUPA KEYWORD2

PICC\_Select KEYWORD2

PICC\_HaltA KEYWORD2

PICC\_RATS KEYWORD2

PICC\_PPS KEYWORD2

# Functions for communicating with ISO/IEC 14433-4 cards

TCL\_Transceive KEYWORD2

TCL\_TransceiveRBlock KEYWORD2

TCL\_Deselect KEYWORD2

# Functions for communicating with MIFARE PICCs

PCD\_Authenticate KEYWORD2

PCD\_StopCrypto1 KEYWORD2

MIFARE\_Read KEYWORD2

MIFARE\_Write KEYWORD2

MIFARE\_Increment KEYWORD2

MIFARE\_Ultralight\_Write KEYWORD2

MIFARE\_GetValue KEYWORD2

MIFARE\_SetValue KEYWORD2

PCD\_NTAG216\_AUTH KEYWORD2

# Support functions

PCD\_MIFARE\_Transceive KEYWORD2

GetStatusCodeName KEYWORD2

PICC\_GetType KEYWORD2

PICC\_GetTypeName KEYWORD2

# Support functions for debuging

PCD\_DumpVersionToSerial KEYWORD2

PICC\_DumpToSerial KEYWORD2

PICC\_DumpDetailsToSerial KEYWORD2

PICC\_DumpMifareClassicToSerial KEYWORD2

PICC\_DumpMifareClassicSectorToSerial KEYWORD2

PICC\_DumpMifareUltralightToSerial KEYWORD2

PICC\_DumpISO14443\_4 KEYWORD2

# Advanced functions for MIFARE

MIFARE\_SetAccessBits KEYWORD2

MIFARE\_OpenUidBackdoor KEYWORD2

MIFARE\_SetUid KEYWORD2

MIFARE\_UnbrickUidSector KEYWORD2

# Convenience functions - does not add extra functionality

PICC\_IsNewCardPresent KEYWORD2

PICC\_ReadCardSerial KEYWORD2

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# KEYWORD3 setup and loop functions, as well as the Serial keywords

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# LITERAL1 Constants

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CommandReg LITERAL1

ComIEnReg LITERAL1

DivIEnReg LITERAL1

ComIrqReg LITERAL1

DivIrqReg LITERAL1

ErrorReg LITERAL1

Status1Reg LITERAL1

Status2Reg LITERAL1

FIFODataReg LITERAL1

FIFOLevelReg LITERAL1

WaterLevelReg LITERAL1

ControlReg LITERAL1

BitFramingReg LITERAL1

CollReg LITERAL1

ModeReg LITERAL1

TxModeReg LITERAL1

RxModeReg LITERAL1

TxControlReg LITERAL1

TxASKReg LITERAL1

TxSelReg LITERAL1

RxSelReg LITERAL1

RxThresholdReg LITERAL1

DemodReg LITERAL1

MfTxReg LITERAL1

MfRxReg LITERAL1

SerialSpeedReg LITERAL1

CRCResultRegH LITERAL1

CRCResultRegL LITERAL1

ModWidthReg LITERAL1

RFCfgReg LITERAL1

GsNReg LITERAL1

CWGsPReg LITERAL1

ModGsPReg LITERAL1

TModeReg LITERAL1

TPrescalerReg LITERAL1

TReloadRegH LITERAL1

TReloadRegL LITERAL1

TCounterValueRegH LITERAL1

TCounterValueRegL LITERAL1

TestSel1Reg LITERAL1

TestSel2Reg LITERAL1

TestPinEnReg LITERAL1

TestPinValueReg LITERAL1

TestBusReg LITERAL1

AutoTestReg LITERAL1

VersionReg LITERAL1

AnalogTestReg LITERAL1

TestDAC1Reg LITERAL1

TestDAC2Reg LITERAL1

TestADCReg LITERAL1

PCD\_Idle LITERAL1

PCD\_Mem LITERAL1

PCD\_GenerateRandomID LITERAL1

PCD\_CalcCRC LITERAL1

PCD\_Transmit LITERAL1

PCD\_NoCmdChange LITERAL1

PCD\_Receive LITERAL1

PCD\_Transceive LITERAL1

PCD\_MFAuthent LITERAL1

PCD\_SoftReset LITERAL1

RxGain\_18dB LITERAL1

RxGain\_23dB LITERAL1

RxGain\_18dB\_2 LITERAL1

RxGain\_23dB\_2 LITERAL1

RxGain\_33dB LITERAL1

RxGain\_38dB LITERAL1

RxGain\_43dB LITERAL1

RxGain\_48dB LITERAL1

RxGain\_min LITERAL1

RxGain\_avg LITERAL1

RxGain\_max LITERAL1

PICC\_CMD\_REQA LITERAL1

PICC\_CMD\_WUPA LITERAL1

PICC\_CMD\_CT LITERAL1

PICC\_CMD\_SEL\_CL1 LITERAL1

PICC\_CMD\_SEL\_CL2 LITERAL1

PICC\_CMD\_SEL\_CL3 LITERAL1

PICC\_CMD\_HLTA LITERAL1

PICC\_CMD\_RATS LITERAL1

PICC\_CMD\_MF\_AUTH\_KEY\_A LITERAL1

PICC\_CMD\_MF\_AUTH\_KEY\_B LITERAL1

PICC\_CMD\_MF\_READ LITERAL1

PICC\_CMD\_MF\_WRITE LITERAL1

PICC\_CMD\_MF\_DECREMENT LITERAL1

PICC\_CMD\_MF\_INCREMENT LITERAL1

PICC\_CMD\_MF\_RESTORE LITERAL1

PICC\_CMD\_MF\_TRANSFER LITERAL1

PICC\_CMD\_UL\_WRITE LITERAL1

MF\_ACK LITERAL1

MF\_KEY\_SIZE LITERAL1

PICC\_TYPE\_UNKNOWN LITERAL1

PICC\_TYPE\_ISO\_14443\_4 LITERAL1

PICC\_TYPE\_ISO\_18092 LITERAL1

PICC\_TYPE\_MIFARE\_MINI LITERAL1

PICC\_TYPE\_MIFARE\_1K LITERAL1

PICC\_TYPE\_MIFARE\_4K LITERAL1

PICC\_TYPE\_MIFARE\_UL LITERAL1

PICC\_TYPE\_MIFARE\_PLUS LITERAL1

PICC\_TYPE\_MIFARE\_DESFIRE LITERAL1

PICC\_TYPE\_TNP3XXX LITERAL1

PICC\_TYPE\_NOT\_COMPLETE LITERAL1

STATUS\_OK LITERAL1

STATUS\_ERROR LITERAL1

STATUS\_COLLISION LITERAL1

STATUS\_TIMEOUT LITERAL1

STATUS\_NO\_ROOM LITERAL1

STATUS\_INTERNAL\_ERROR LITERAL1

STATUS\_INVALID LITERAL1

STATUS\_CRC\_WRONG LITERAL1

STATUS\_MIFARE\_NACK LITERAL1

FIFO\_SIZE LITERAL1

BITRATE\_106KBITS LITERAL1

BITRATE\_212KBITS LITERAL1

BITRATE\_424KBITS LITERAL1

BITRATE\_848KBITS LITERAL1