

I2C Master Class

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Public Member Functions	
	I2C (PinName sda, PinName scl)
	Create an I2C Master interface, connected to the specified pins. More...
	I2C (const I2c_pinmap_t &static_pinmap)
	Create an I2C Master interface, connected to the specified pins. More...
void	frequency (int hz)
	Set the frequency of the I2C interface. More...
int	read (int address, char *data, int length, bool repeated=false)
	Read from an I2C slave. More...
int	read (int ack)
	Read a single byte from the I2C bus. More...
int	write (int address, const char *data, int length, bool repeated=false)
	Write to an I2C slave. More...
int	write (int data)
	Write single byte out on the I2C bus. More...
void	start (void)
	Creates a start condition on the I2C bus. More...
void	stop (void)
	Creates a stop condition on the I2C bus. More...

virtual void	lock (void)
	Acquire exclusive access to this I2C bus. More...
virtual void	unlock (void)
	Release exclusive access to this I2C bus. More...
int	transfer (int address, const char *tx_buffer, int tx_length, char *rx_buffer, int rx_length, const event_callback_t &callback, event=I2C_EVENT_TRANSFER_COMPLETE, bool repeated=false)
	Start nonblocking I2C transfer. More...
void	abort_transfer ()
	Abort the ongoing I2C transfer. More...