My Project

Generated by Doxygen 1.8.17

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# **Chapter 1**

# **Class Index**

## 1.1 Class List

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

lj								 					 											
mdatom								 					 											
particles								 					 							 				;
Vector2								 					 							 				4
Verlet .								 					 							 				4

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## **Chapter 2**

## **Class Documentation**

### 2.1 lj Class Reference

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

• lj.h

#### 2.2 mdatom Struct Reference

Collaboration diagram for mdatom:

### 2.3 particles Class Reference

#### **Public Member Functions**

- void printOutput (std::ostream &)
- void **add** (mdatom)
- void RandomAdd (int)
- int size ()
- mdatom & atom (int i)
- mdatom & operator[] (int i)
- double totKE ()

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

- · particles.h
- particles.cpp

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#### 2.4 Vector2 Struct Reference

#### **Public Member Functions**

- Vector2 (double x, double y)
- Vector2 & operator= (const Vector2 &)
- Vector2 & operator+= (const Vector2 &)
- Vector2 operator+ (const Vector2 &) const
- Vector2 operator- (const Vector2 &) const
- double operator\* (const Vector2 &) const

#### **Public Attributes**

• double  $\mathbf{x}_{2} = \{0.0, 0.0\}$ 

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

- · types.h
- types.cpp

#### 2.5 Verlet Class Reference

#### **Public Member Functions**

- Verlet (particles &)
- · double getdt () const
- double getTime () const
- double getBegin () const
- void **setTimer** (double t)
- · void printStatus () const
- void stepper ()

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

- verlet.h
- · verlet.cpp

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