3sphere

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Chapter 1

Class Index

1.1 Class List

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

Files_and_strings	•		 	 								 							3
Foo et al			 	 								 							Ę

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Chapter 2

Class Documentation

2.1 Files_and_strings Class Reference

Static Public Member Functions

- static bool is_integer (const string digit_string)
 Determines whether a string is an integer, useful for counting the number of spheres.
- static vector< string > split (const string &s, char delimiter)
 Splits and separates strings based on some delimiter.
- static char * get_command_option (char **begin, char **end, const string &option)

 retrieves string after command line options used at runtime
- static bool check_for_command_option (char **begin, char **end, const string &option)

 *checks whether a command line option is used at runtime

2.1.1 Member Function Documentation

2.1.1.1 check_for_command_option()

checks whether a command line option is used at runtime

Parameters

begin	(char**) is the first character of the string that matches the "option"
begin	(char**) is the last character of the string that matches the "option"
option	is a string consisting of the command line option we want to retrieve

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Returns

true if the string is of finite size

2.1.1.2 get_command_option()

retrieves string after command line options used at runtime

Parameters

	begin	(char**) is the first character of the string that matches the "option"
Ī	begin	(char**) is the last character of the string that matches the "option"
Ī	option	is a string consisting of the command line option we want to retrieve

2.1.1.3 is_integer()

Determines whether a string is an integer, useful for counting the number of spheres.

Parameters

d	igit_string	is an arbitrary string containing information	
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Returns

the first index in the string that is not an integer

2.1.1.4 split()

Splits and separates strings based on some delimiter.

Parameters

s	is an arbitary string you want to separate into a vector
delimiter	is the character used to delimit separate quantities in the string

Returns

a vector of strings, with each element being a quantity separeted by the delimiter in the original string

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

· classes.hh

2.2 Foo_et_al Class Reference

Static Public Member Functions

• static double get_volume (double radius)

Returns the volume of a single 3-sphere.

2.2.1 Member Function Documentation

2.2.1.1 get_volume()

Returns the volume of a single 3-sphere.

Parameters

radius is a double precision float for the radius of the sphere. \returnis 4./3 * pi * radius*radius*radius

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

· classes.hh

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