

tCad
0.2

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

arc	7
entities	9
circle	8
entities	9
line	9
entities	9

Chapter 2

Class Index

2.1 Class List

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

arc	7
circle	8
entities	9
line	9

Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

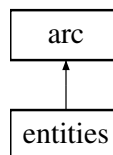
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Chapter 4

Class Documentation

4.1 arc Class Reference

Inheritance diagram for arc:



Public Member Functions

- int [no_arc](#) (void)
- void [get_arc_data](#) (void)
- void [show_arc](#) (void)
- vector< double > [get_arc_vec](#) (void)

4.1.1 Member Function Documentation

4.1.1.1 void arc::get_arc_data (void)

Class: arc Method: void arc :: [get_arc_data](#)(void)

Description: Prompt for getting parameters of arc

4.1.1.2 vector< double > arc::get_arc_vec (void)

Class: arc Method: vector<double> arc :: [get_arc_vec](#)(void)

Description: Returns a vector which contain all parameters

4.1.1.3 int arc::no_arc (void)

Class: arc Method: int arc :: [no_arc](#)(void)

Description: Return number of arcs saved in memory

4.1.1.4 void arc::show_arc (void)

Class: arc Method: void arc :: [show_arc\(void\)](#)

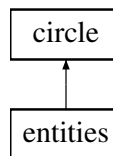
Description: Show all arcs saved in memory

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

- [arc.h](#)
- arc.cc

4.2 circle Class Reference

Inheritance diagram for circle:



Public Member Functions

- int [no_circle](#) ()
- void [get_circle_data](#) ()
- void [show_circle](#) ()
- vector< double > [get_circle_vec](#) ()

4.2.1 Member Function Documentation

4.2.1.1 void circle::get_circle_data ()

Class: circle Method: void circle :: [get_circle_data\(void\)](#)

Description: Prompt for getting parameters of circle

4.2.1.2 vector< double > circle::get_circle_vec ()

Class: circle Method: vector<double> circle :: [get_circle_vec\(void\)](#)

Description: Returns a vector which contain all parameters

4.2.1.3 int circle::no_circle ()

Class: circle Method: int circle :: [no_circle\(void\)](#)

Description: Return number of circles saved in memory

4.2.1.4 void circle::show_circle ()

Class: circle Method: void circle :: [show_circle\(void\)](#)

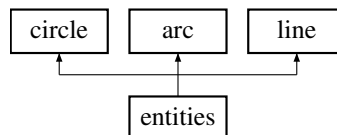
Description: Show all circles saved in memory

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

- [circle.h](#)
- circle.cc

4.3 entities Class Reference

Inheritance diagram for entities:



Public Member Functions

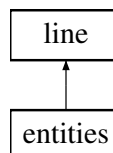
- void **show** ()

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

- [entities.h](#)

4.4 line Class Reference

Inheritance diagram for line:



Public Member Functions

- int [no_line](#) ()
- void [get_line_data](#) ()
- void [show_line](#) ()
- vector< double > [get_line_vec](#) ()

4.4.1 Member Function Documentation

4.4.1.1 void line::get_line_data ()

Class: line Method: void line :: [get_line_data\(void\)](#)

Description: Prompt for getting parameters of line

4.4.1.2 vector< double > line::get_line_vec ()

Class: line Method: vector<double> line :: [get_line_vec\(void\)](#)

Description: Returns a vector which contain all parameters

4.4.1.3 int line::no_line ()

Class: line Method: int line :: [no_line\(void\)](#)

Description: Return number of lines saved in memory

4.4.1.4 void line::show_line ()

Class: line Method: void line :: [show_line\(void\)](#)

Description: Show all lines saved in memory

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

- [line.h](#)
- [line.cc](#)

Chapter 5

File Documentation

5.1 arc.h File Reference

Adding arc entities.

```
#include <iostream>
#include <vector>
#include <cmath>
```

Classes

- class [arc](#)

5.1.1 Detailed Description

Adding arc entities.

Version

0.2 \

Author

Jagmeet Singh, jagmeet787@gmail.com

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5.2 circle.h File Reference

Adding circle entities.

```
#include <iostream>
#include <vector>
#include <cmath>
```

Classes

- class [circle](#)

5.2.1 Detailed Description

Adding circle entities.

Version

0.2 \

Author

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5.3 draw.h File Reference

Implementation of drawing entities to backend.

```
#include <iostream>
#include <vector>
#include <cairo/cairo-pdf.h>
#include "lc/lccairopainter.h"
#include "entities.h"
```

Functions

- LcCairoPainter **lcpainter** (surface, cr)
- void **drawline** (void)
- void **drawarc** (void)
- void **drawcircle** (void)
- void **draw** ()

Variables

- [entities](#) **obj**
- vector< double > **line_data** = obj.get_line_vec()
- vector< double > **arc_data** = obj.get_arc_vec()
- vector< double > **circle_data** = obj.get_circle_vec()
- cairo_surface_t * **surface** =(cairo_surface_t *)cairo_pdf_surface_create("ji.pdf",100,100)
- cairo_t * **cr** = cairo_create(surface)

5.3.1 Detailed Description

Implementation of drawing entities to backend.

Version

0.2 \

Author

Jagmeet Singh, jagmeet787@gmail.com

Copyright

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5.4 entities.h File Reference

Class which encapsulates all entities.

```
#include <iostream>
#include <vector>
#include <cstdlib>
#include "line.h"
#include "arc.h"
#include "circle.h"
```

Classes

- class [entities](#)

5.4.1 Detailed Description

Class which encapsulates all entities.

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5.5 line.h File Reference

Adding line entities.

```
#include <iostream>
#include <vector>
#include <cmath>
```

Classes

- class [line](#)

5.5.1 Detailed Description

Adding line entities.

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5.6 main.cc File Reference

Main Method.

```
#include <iostream>
#include <cstdlib>
#include "draw.h"
```

Functions

- int **main** ()

5.6.1 Detailed Description

Main Method.

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0.2

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