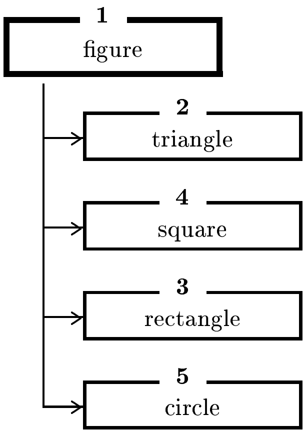
# Contents

1

# class **figure**

*Abstract base class to define a figure*

## Inheritance




## Public Members

| | | |
|---|---|---|
| void | **set_loc** (double i=0, double j=0) | *Definition of interface for method to set the figure location.* |
| void | **get_loc** () | *Definition of interface for method to return the figure location.* |
| virtual void | **show_area** () | *Definition of interface for method to return the figure area.* |

## Protected Members

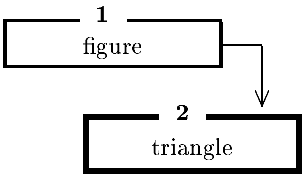
| | | |
|---|---|---|
| double | **xdim** | *Dimension of figure along axis x* |
| double | **ydim** | *Dimension of figure along axis y* |
| double | **xloc** | *Location of figure along x axis* |
| double | **yloc** | *Location of figure along y axis* |

## 2

class **triangle** : public figure

*Concrete figure triangle*

### Inheritance




### Public Members

| | | |
|---|---|---|
| | **triangle** (double i=0, double j=0) | |
| | | *Triangle Constructor takes height and width as arguments* |
| void | **show_area** () | *Method to return the area of a triangle* |
| | **~triangle** () | *Triangle Destructor* |

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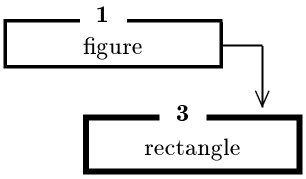
**3**

## class **rectangle** : public figure

*Concrete figure rectangle*

### Inheritance




### Public Members

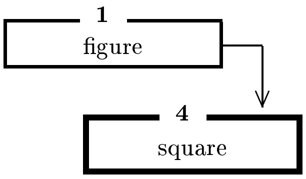
| | | |
|---|---|---|
| | **rectangle** (double i=0, double j=0) | *Rectangle Constructor takes length and width as arguments* |
| void | **show_area** () | *Method to return the area of a rectangle* |
| | **~rectangle** () | *Rectangle Destructor* |

**4**

class **square** : public figure

*Concrete figure square*

## Inheritance




## Public Members

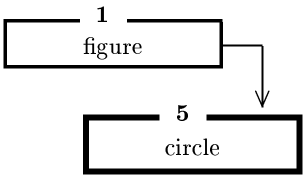
| | | |
|---|---|---|
| | **square** (double i=0) | |
| | | *Square Constructor takes side as an argument* |
| void | **show_area** () | *Method to return the area of a square* |
| | **~square** () | *Square Destructor* |

**5**

class **circle** : public figure

*Concrete figure circle*

## Inheritance




## Public Members

| | | |
|---|---|---|
| | **circle** (double i=0) | *Circle Constructor takes radius as an argument* |
| void | **show_area** () | *Method to return the area of a circle* |
| | **~circle** () | *Circle Destructor* |

# Class Graph