Class Diagram for NVIFlyWeightSingletonMVCExample

Class Adapter

Model-View-Controller

**AppDrawing
Window**
draw()

View_base
notify_location()
notify_shape()

*   1

Model
Views

Singleton

Drawing_shape_pool
Drawing_shape pointers
get_instance()
get_shape_ptr()

1

*Flyweight base class with
Non-Virtual Interface*

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VisualView
object pointers
scale
notify_location()
notify_shape()
draw()

1   *

VisualViewObject
color
shape pointer
set_shape()
drawself()

1   *

Drawing_shape
draw(VisualViewObject *);
setup()
drawshape()
finish()

object pointer->set_shape(shape_name);

shape_ptr=
Drawing_shape_pool::get_instance().
get_shape_ptr(shape_name);

for each VisualViewObject pointer
pointer->drawself();

shape_ptr->draw(this);

Drawing_shape_fillable
filled
setup()
finish()

*Other shape
subtypes*

Triangle_shape
drawshape()

Circle_shape
drawshape()

*Other shape
classes*