GeometricObject

-color: String-filled: boolean

-dateCreated: java.util.date

#GeometricObject()

#GeometricObject(color: String, filled: boolean)

+getColor(): String

+setColor(color: String): void

+isFilled(): boolean

+setFilled(filled: boolean): void +getDateCreated(): java.util.Date

+toString(): String +getArea(): double +getPerimeter(): double

#### Triangle

-side1: double -side2: double -side3: double

+Triangle()

+Triangle(side 1: double, side2: double, side3: double)

+Triangle(side 1: double, side2: double, side3: double, color: String, filled: boolean)

+getSide1(): double

+setSide1(double setSide1): void

+getSide2(): double

+setSide2(double setSide2): void

+getSide3(): double

+setSide3(double setSide1): void

# <<Interface>> Comparable<GeometricObject>

+compareTo(go: GeometricObject): int

# GeometricObject

-color: String -filled: boolean

-dateCreated: java.util.date

#GeometricObject()

#GeometricObject(color: String, filled: boolean)

+getColor(): String

+setColor(color: String): void

+isFilled(): boolean

+setFilled(filled: boolean): void +getDateCreated(): java.util.Date

+toString(): String

+max(o: GeometricObject, o2: GeometricObject)

+getArea(): double +getPerimeter(): double

#### Circle

## -radius: double

+Circle()

+Circle(radius: double)

+Circle(radius: double, color: String, filled: boolean)

+getRadius(): double

+setRadius(radius: double): void

+toString(): String

#### Rectangle

-length: double -wdith: double

+Rectangle()

+Rectangle(width: double, height: double) +Rectangle(width: double, height: double,

color: String, filled: boolean)

+getWidth(): double

+setWidth(width: double): void

+getHeight(): double
+setHeight(height: double)

+toString(): String

<<Interface>>
Colorable

+howToColor(): String

GeometricObject

-color: String -filled: boolean

-dateCreated: java.util.date

#GeometricObject()

#GeometricObject(color: String, filled: boolean)

+getColor(): String

+setColor(color: String): void

+isFilled(): boolean

+setFilled(filled: boolean): void +getDateCreated(): java.util.Date

+toString(): String +getArea(): double +getPerimeter(): double

#### Square

#### -sideLength: double

- +Sqaure()
- +Square(sideLength: double, color: String, filled: boolean)
- +getSideLength(): double
- +setSideLength(sideLength: double): void
- +toString(): String

# <<Interface>> Comparable<Circlet>

+compareTo(o: Circle): int +equals(o: Object): boolean

#### GeometricObject

-color: String
-filled: boolean

-dateCreated: java.util.date

#GeometricObject()

#GeometricObject(color: String, filled: boolean)

+getColor(): String

+setColor(color: String): void

+isFilled(): boolean

+setFilled(filled: boolean): void +getDateCreated(): java.util.Date

+toString(): String +getArea(): double +getPerimeter(): double

#### Circle

## -radius: double

+Circle()

+Circle(radius: double)

+Circle(radius: double, color: String, filled: boolean)

+getRadius(): double

+setRadius(radius: double): void

