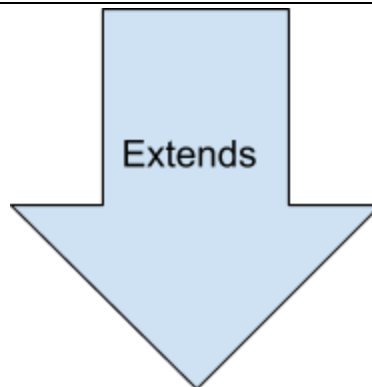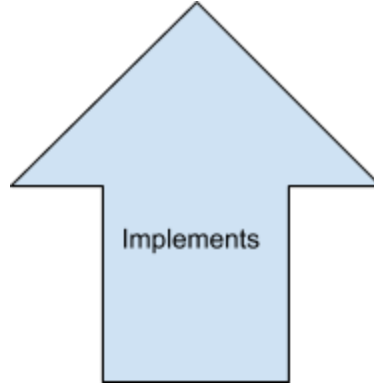| Geometric Object |
| --- |
| +color: String |
| +filled: boolean |
| +dateCreated: Date |
| +GeometricObject() |
| +GeometricObject(String: color, boolean: filled) |
| +getColor(): String |
| +isFilled(): boolean |
| +getDateCreated(): Date |
| +setColor(String: color) |
| +setFilled(boolean: filled) |

Extends

Square
+side: double
+Square()
+Square(double: side)
+getSide(): double
+setSide(double: side)
+getPerimeter(): double

+getArea(): double

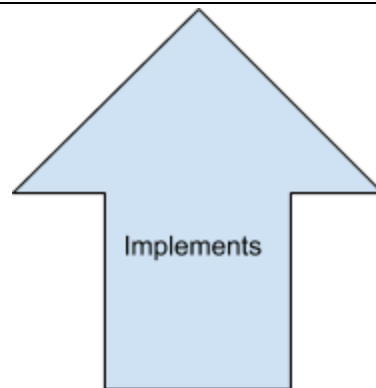Implements

Colorable
+howToColor()

Geometric Object
+color: String
+filled: boolean
+dateCreated: Date
+GeometricObject()
+GeometricObject(String: color, boolean: filled)
+getColor(): String
+isFilled(): boolean
+getDateCreated(): Date
+setColor(String: color)
+setFilled(boolean: filled)

Extends
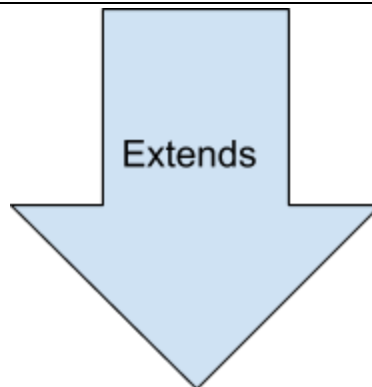
Circle
+radius: double
+Circle()
+Circle(double: radius)
+getRadius(): double
+setRadius(double: radius)
+getArea(): double

+getDiameter(): double
+getPerimeter(): double

Implements

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

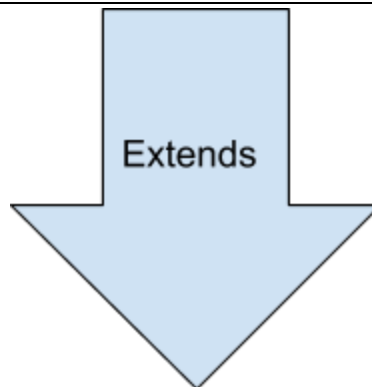| Geometric Object |
| --- |
| +color: String |
| +filled: boolean |
| +dateCreated: Date |
| +GeometricObject() |
| +GeometricObject(String: color, boolean: filled) |
| +getColor(): String |
| +isFilled(): boolean |
| +getDateCreated(): Date |
| +setColor(String: color) |
| +setFilled(boolean: filled) |

Extends

Octagon
+side: double
+Octagon()
+Octagon(double: side)
+getSide(): double
+setSide(double: side)
+getArea(): double

+getPerimeter(): double

Implements
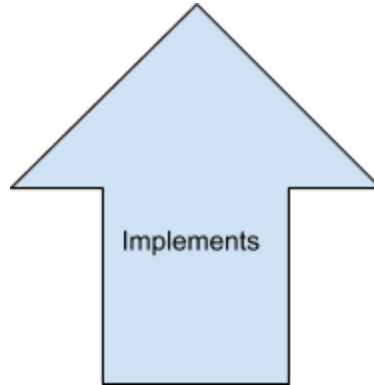
Comparable	Cloneable
+compareTo(Object: o): int	+clone(): Object
+equals(Object: o): boolean	