

## BezierCurve -points\_: vector<Point> -step\_: double +BezierCurve() +BezierCurve(points: vector<Point>) +getPoints const(): vector<Point> +addPoint(P: Point): void +clearPoints(): void +getCasteljauPoint(c: int, index: int, t: double): Point

+getCurvePoints(): vector<Point>

```
Point

-x_: int
-y_: int
-color: unsigned int*

+Point()
+Point(x: int, y: int, R: unsigned int = 0, G: unsigned int = 0, B: unsigned int = 0)
+Point(P: const Point &)
+~Point()
+getX const(): int
+getY const(): int
+setX(x: int): void
+setY(y: int): void
+getColor(): unsigned int*
```

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Image
 -fp_ : FILE *
-fileName_ : char *
 -pngPtr_: png_structp
 -infoPtr_: png Jnfop
 -width_: int
 -height_: int
 -pixels_: png_bytep *
 +lmage(fileName : char*, width : int, height : int)
 +~lmage()
 +writelmage(): void
 +getPixels const(): png_bytep*
 +getPixelColor(P: Point): unsigned int*
 +draw(P: Point): void
 +draw(points : vector<Point>) : void
 +draw(curves : vector<BezierCurve>) : void
```