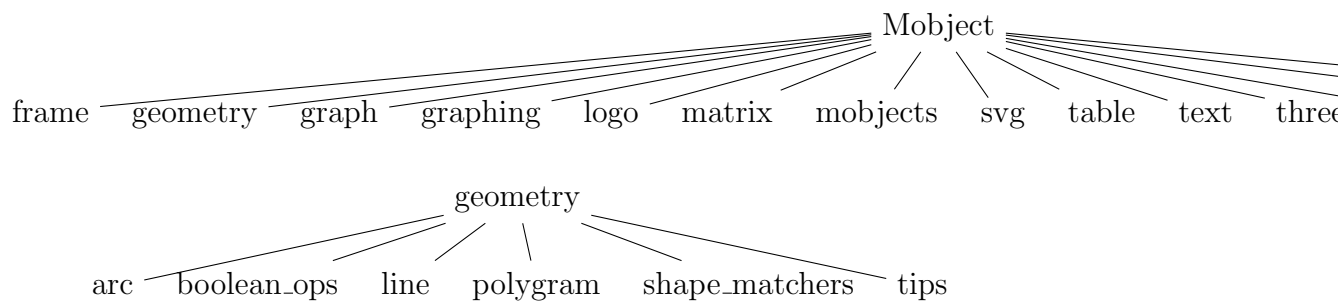# Manim

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Manim

Manim stands for **Mathematical Animation**. Created by **3blue1brown**.
Manim is a custom python library used to animate math explanation. Manim
runs on python 3.6 or higher but 3.8 is recommended. DOCS here.
Mobjects class is the root abstract class in manim. All other **Mobjects**
like Circle, Rectangle, Triangles are derived from this class.

```
                                         Mobject
   frame   geometry   graph   graphing   logo   matrix   mobjects   svg   table   text   three

                           geometry
      arc   boolean_ops   line   polygram   shape_matchers   tips
```

1. `manim -flags file_name.py class_name`

2. Flags

    (a) `p - play when class rendered`
    (b) `ql - low quality`
    (c) `qm - medium quality`
    (d) `qh - high quality`
    (e) `qk - 4k quality`
    (f) `a - render all scene class`
    (g) `f - open file browser location`
    (h) `i - .gif instead of .mp4`

3. Animation time by run_time: `self.play(animation(mobject), run_time = seconds)`