Sideway

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Windows Media Player Microsoft Expression Encoder Audacity Manim

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Mobject VMobject SVG Mobject Function

SVG Mobject Tex Mobject Text Mobject Brace drawings.py

svg_mobject.py SVGMobject

Draft for Information Only

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Manim SVG Mobject

The svg mobject `VMobject` object in Manim is defined in svg_mobject.py.

Codes in Svg_mobject.py

Available codes defined in manimlib.mobject.svg.svg_mobject.py

```
import itertools as it
import re
import string
import warnings

from xml.dom import minidom

from manimlib.constants import *
from manimlib.mobject.geometry import Circle
from manimlib.mobject.geometry import Rectangle
from manimlib.mobject.geometry import RoundedRectangle
from manimlib.mobject.types.vectorized_mobject import VGroup
```

Two classes, SVGMobject(VMobject), and VMobjectFromSVGPathstring(VMobject).

Import

```
import itertools as it
import re
import string
import warnings

from xml.dom import minidom

from manimlib.constants import *
from manimlib.mobject.geometry import Circle
from manimlib.mobject.geometry import Rectangle
from manimlib.mobject.geometry import RoundedRectangle
from manimlib.mobject.types.vectorized_mobject import VGroup
from manimlib.mobject.types.vectorized_mobject import VMobject
from manimlib.utils.color import *
from manimlib.utils.config_ops import digest_config
from manimlib.utils.config_ops import digest_locals
```

Global Function

- def string_to_numbers(num_string)

Class SVGMobject(VMobject)

class manimlib.mobject.svg.svg_mobject.SVGMobject(VMobject)

Configuration

```
CONFIG = {
    "should_center": True,
    "height": 2,
    "width": None,
    # Must be filled in in a subclass, or when called
    "file_name": None,
    "unpack_groups": True,  # if False, creates a hierarchy of VGroups
    "stroke_width": DEFAULT_STROKE_WIDTH,
    "fill_opacity": 1.0,
    # "fill_color" : LIGHT_GREY,
}
```

Functions

- def __init__(self, file_name=None, **kwargs)
- def ensure_valid_file(self)
- def generate_points(self)
- def get_mobjects_from(self, element)
- def g_to_mobjects(self, g_element)
- def path_string_to_mobject(self, path_string)
- def use_to_mobjects(self, use_element)
- def attribute_to_float(self, attr)
- def polygon_to_mobject(self, polygon_element)
- # <circle class="st1" cx="143.8" cy="268" r="22.6"/>
- def circle_to_mobject(self, circle_element)
- def ellipse_to_mobject(self, circle_element)

- def rect_to_mobject(self, rect_element)
- def handle_transforms(self, element, mobject)
- def flatten(self, input_list)
- def get_all_childNodes_have_id(self, element)
- def update_ref_to_element(self, defs)
- def move_into_position(self)

Class VMobjectFromSVGPathstring(VMobject)

class
manimlib.mobject.svg.svg_mobject.VMobjectFromSVGPathstring(VMobject) version 19Dec2019

Functions

- def __init__(self, path_string, **kwargs)
- def get_path_commands(self)
- def generate_points(self)
- def handle_command(self, command, coord_string)
- def string_to_points(self, coord_string)
- def get_original_path_string(self)

Source and Reference

https://github.com/3b1b/manim version 19Dec2019

ID: 200602402 Last Updated: 6/24/2020 Revision: 0

- Windows 8.1 Knowledge Base Networking Network Shell Netsh http (last updated On 3/26/2021)
- Windows 8.1 Knowledge Base Networking Network Shell Netsh (last updated On 3/25/2021)
- Manim Knowledge Base Getting Started Useful Information Geometry VMobject TipableVMobject Line Number_line.py (last updated On 3/24/2021)
- Manim Knowledge Base Getting Started Useful Information Numbers DecimalNumber, Integer (last updated On 3/23/2021)
- Manim Knowledge Base Getting Started Useful Information Numbers (last updated On 3/22/2021)
- Manim Knowledge Base Getting Started Useful Information Geometry VMobject TipableVMobject Line DashedLine, TangentLine, Arrow, Vector, DoubleArrow (last updated On 3/21/2021)
- Manim Knowledge Base Getting Started Useful Information Geometry VMobject TipableVMobject Arc Circle, Dot, SmallDot, Ellipse, Annulus (last updated On 3/20/2021)
- Manim Knowledge Base Getting Started Useful Information Geometry VMobject TipableVMobject Arc ArcBetweenPoints, CurvedArrow, CurvedDoubleArrow (last updated On 3/19/2021)
- Manim Knowledge Base Getting Started Useful Information Geometry VMobject TipableVMobject Line (last updated On 3/18/2021)

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