
dspy Documentation

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Evan Lynch

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Contents:

introduction

2.1 dspy.envelope

```
class dspy.envelope.ADSREnvelope
    Bases: dspy.generator.Generator
    Generator for producing an ADSR envelope.

class dspy.envelope.DurationEnvelope(duration)
    Bases: dspy.generator.Generator

class dspy.envelope.ExpEnvelope(steps, initial=0.0)
    Bases: dspy.generator.Generator
    create_exp(init, dest, start, dur, order)

class dspy.envelope.ReleaseEnvelope(release_time=0.1, release_order=0.75, duration=None)
    Bases: dspy.generator.Generator
    set_duration(duration)
```

2.2 dspy.basic

```
class dspy.basic.DC(value)
    Bases: dspy.generator.Generator

class dspy.basic.Map(generator, function)
    Bases: dspy.generator.WrapperGenerator

class dspy.basic.Noise
    Bases: dspy.generator.Generator

class dspy.basic.Pink
    Bases: dspy.generator.Generator

class dspy.basic.Rect(freq, phase, duty=0.5, amp=1.0)
    Bases: dspy.generator.Generator

class dspy.basic.Sine(freq, phase, amp=1.0)
    Bases: dspy.generator.Generator

class dspy.basic.WaveTable(table)
    Bases: dspy.generator.Generator
```

2.3 dspy.dsp

```
class dspy.dsp.Abs (generator)
    Bases: dspy.generator.WrapperGenerator

class dspy.dsp.Clip (generator, low=-1, high=1)
    Bases: dspy.generator.WrapperGenerator

class dspy.dsp.Compressor (generator, threshold, ratio)
    Bases: dspy.generator.WrapperGenerator

class dspy.dsp.LowPassDSP (generator, cutoff)
    Bases: dspy.generator.WrapperGenerator

class dspy.dsp.Resample (generator, speed=1.0)
    Bases: dspy.generator.WrapperGenerator
```

2.4 dspy.generator

```
class dspy.generator.BundleGenerator (generators)
    Bases: dspy.generator.Generator

    generators

class dspy.generator.Gain (generator, gain)
    Bases: dspy.generator.WrapperGenerator

class dspy.generator.Generator
    Bases: object

    auto_reset
    frame
    generate (frame_count)
    length ()
    num_channels
    previous_buffer
    release ()
    reset ()

class dspy.generator.Offset (generator, offset)
    Bases: dspy.generator.WrapperGenerator

class dspy.generator.Product (generators)
    Bases: dspy.generator.BundleGenerator

class dspy.generator.Sum (generators)
    Bases: dspy.generator.BundleGenerator

class dspy.generator.WrapperGenerator (generator)
    Bases: dspy.generator.Generator

    generator
```

2.5 dspy.note

```
class dspy.note.FM(pitch, modulator, detune=0)
    Bases: dspy.generator.Generator

class dspy.note.Note
    Bases: dspy.generator.Generator

class dspy.note.Tone(pitch, overtones=[(1, 1, 0)], detune=0)
    Bases: dspy.generator.Generator
```

2.6 dspy.sampler

```
class dspy.sampler.Sampler(file_path)
    Bases: object

    class Sample(data, num_channels, loop=False, speed=1.0)
        Bases: dspy.generator.Generator

        set_speed(speed)

    Sampler.sample(start, duration, loop=False, speed=1.0)

class dspy.sampler.WaveFileGenerator(filepath, gain=1)
    Bases: dspy.generator.Generator

    start()

    stop()
```

2.7 dspy.player

```
class dspy.player.Player(sequence=[], channels=2, live=True, loop=False, clip=True, max_size=0)
    Bases: dspy.generator.Generator

    add(gen, time=None)

    gain
```

2.8 dspy.lib

```
dspy.lib.pitch_to_frequency(pitch)

dspy.lib.rechannel(buf, in_channels, out_channels)

dspy.lib.t2f(t)
```

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