# noisy Documentation

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# Contents

Different types of noise are available. The following table lists the color of noise and how the power and power density change per octave.

| Color | Power | Power density |
|---|---|---|
| White | +3 dB | 0 dB |
| Pink | 0 dB | -3 dB |
| Blue | +6 dB | +3 dB |
| Brown | -3 dB | -6 dB |
| Violet | +9 dB | +6 dB |

Curves corresponding to the noise color are generated in frequency domain.

noisy.**blue**(*ntaps*)
Compute impulse response for blue noise.

**Parameters** **ntaps** – Length of impulse response.

**Returns** Impulse response of length *ntaps*.

noisy.**brown**(*ntaps*)
Compute impulse response for brown noise.

**Parameters** **ntaps** – Length of impulse response.

**Returns** Impulse response of length *ntaps*.

noisy.**pink**(*ntaps*)
Compute impulse response for pink noise.

**Parameters** **ntaps** – Length of impulse response.

**Returns** Impulse response of length *ntaps*.

noisy.**violet**(*ntaps*)
Compute impulse response for violet noise.

**Parameters** **ntaps** – Length of impulse response.

**Returns** Impulse response of length *ntaps*.

noisy.**white**(*ntaps*)
Compute impulse response for white noise.

**Parameters** **ntaps** – Length of impulse response.

**Returns** Impulse response of length *ntaps*.

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