

# eq

Set brightness, contrast, saturation and approximate gamma adjustment.

The filter accepts the following options:

' **contrast** '

Set the contrast expression. The value must be a float value in range **-2.0** to **2.0**. The default value is "1".

' **brightness** '

Set the brightness expression. The value must be a float value in range **-1.0** to **1.0**. The default value is "0".

' **saturation** '

Set the saturation expression. The value must be a float in range **0.0** to **3.0**. The default value is "1".

' **gamma** '

Set the gamma expression. The value must be a float in range **0.1** to **10.0**. The default value is "1".

' **gamma\_r** '

Set the gamma expression for red. The value must be a float in range **0.1** to **10.0**. The default value is "1".

**' gamma\_g '**

Set the gamma expression for green. The value must be a float in range **0.1** to **10.0**. The default value is "1".

**' gamma\_b '**

Set the gamma expression for blue. The value must be a float in range **0.1** to **10.0**. The default value is "1".

**' gamma\_weight '**

Set the gamma weight expression. It can be used to reduce the effect of a high gamma value on bright image areas, e.g. keep them from getting overamplified and just plain white. The value must be a float in range **0.0** to **1.0**. A value of **0.0** turns the gamma correction all the way down while **1.0** leaves it at its full strength. Default is "1".

**' eval '**

Set when the expressions for brightness, contrast, saturation and gamma expressions are evaluated.

It accepts the following values:

**' init '**

only evaluate expressions once during the filter initialization or when a command is processed

**' frame '**

evaluate expressions for each incoming frame

Default value is **' init '**.

The expressions accept the following parameters:

**' n '**

frame count of the input frame starting from 0

**' pos '**

byte position of the corresponding packet in the input file, NAN if unspecified

**' r '**

frame rate of the input video, NAN if the input frame rate is unknown

' **t** '

timestamp expressed in seconds, NAN if the input timestamp is unknown

## COMMANDS

The filter supports the following commands:

' **contrast** '

Set the contrast expression.

' **brightness** '

Set the brightness expression.

' **saturation** '

Set the saturation expression.

' **gamma** '

Set the gamma expression.

' **gamma\_r** '

Set the gamma\_r expression.

' **gamma\_g** '

Set gamma\_g expression.

' **gamma\_b** '

Set gamma\_b expression.

' **gamma\_weight** '

Set gamma\_weight expression.

The command accepts the same syntax of the corresponding option.

If the specified expression is not valid, it is kept at its current value.

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## FFmpeg