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How it works

Bend uses phase modulation:

Phase modulation is a complex topic that has been explained in great depth elsewhere. Rather than try and detail everything here, if you're new to the subject I reccomend taking a look at this youtube video by Groovy DSP:

https://www.youtube.com/watch?v=EW12RYc7QRA

If you're not too interested in what phase modulation is and you simply want to know what it can do in the context of Bend, here is a very brief synopsis. As you apply phase modulation (bend) to a sin wave or a triangle wave, the resulting wave becomes closer and closer to a saw wave. This can be used to create a similar sounding effect to a low pass filter:

Bend: 0.8



Applying phase modulation to a square wave is akin to pulse width modulation:

