

Title: GME/BTC Correlation

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Body:

Since BTC has been assumed to correlate directly with GME, I decided to figure out when the fuck that exactly happened. This knowledge has been especially helpful to determine if some hedgefuckery will occur that will fuck with GME prices. As such, I analyzed share price data from Jun 27, 2016 to Jun 25, 2021 for a total of 1,257 dates to figure that shit out.

Big Shit First

Below is your normal date vs closing share price data. I logged the values so it would be easier to read.

<https://preview.redd.it/ck0m8o1ip0871.png?width=1110&format;=png&auto;=webp&s;=118bd7d7d108f02e02fb121ef84d32d75860da56>

From the start, it would look like GME is indirectly correlated with BTC. In Ape, when GME goes up, BTC goes down and vice versa. Therefore, plotting a graph of the timeline of date vs log(GME close) and 1/log (BTC Close) should give us some more insight!!!

Dips and Dips

Both GME and 1/BTC closing prices are seeing a big dip (PTSDDog.jpg) and continue to decrease. GME eventually hits a stall and begins to increase while 1/BTC keeps dipping.

<https://preview.redd.it/51ma9o6mp0871.png?width=1007&format;=png&auto;=webp&s;=adbfd48eebc38e0c7c079957141b2fcfac54a2e6>

In my opinion, it looks are if a switch begins in July 2020 when GME and BTC. This is when GME and BTC started to correlate with one another. Below are some zoomed-in graphs with 7/20/20 circled in red.

<https://preview.redd.it/2k5wkfqnp0871.png?width=1236&format;=png&auto;=webp&s;=cb9a76111c8fbca5bb89a05e1d0bb88b1e9ce8f1>

EVEN MORE ZOOM ENHANCE!!

<https://preview.redd.it/26kk51oop0871.png?width=910&format;=png&auto;=webp&s;=924394e2d9025199bb7d553a18ce31dace38d3f7>

Let's Double Check with some Other Visuals

Since it would appear that GME was first indirectly correlated with BTC and then later became correlated, we can graph both Log(GME) and Log(BTC) in one value. Earlier, we used a 1/ log (BTC) to see if we could visually discover anything. Luckily, Log (GME) and 1/ Log (BTC) can be simplified to just Log(GME) / Log(BTC) to make this fancy shit:

<https://preview.redd.it/57uldtppp0871.png?width=1326&format=png&auto=webp&s=602da9bcacd0564ab84c7d6fd033085f8cfdc6e2>

We see a good upwards movement from this ratio until 8/15/2019 and then shit gets weird for a little bit. It eventually begins to decrease around 7/20/2020. Let's get a closer look starting from 1/1/2020. It would appear that around July 2020 there is a change that causes the GME:BTC ratio to start to decrease. 7/20/2020 has been circled in red because it's at the height right before the change.

<https://preview.redd.it/j55yxprqp0871.png?width=909&format=png&auto=webp&s=302fe5719d3d91bf6e81d8210e72f04d931cfcc5>

But what if I CAN read...?!?!?

I did some previous [linear regression analysis](https://www.reddit.com/r/Superstonk/comments/nzcg0j/simple_linear_regression_using_real_world_data/) on the lowest GME share price to determine if an external bias occurred in any given day. From that analysis, "July 21, 2020 was set to my original date because it was the first to have an upwards value as well as a rate of change that was within the previous distribution rate of change histogram." The regression line I was able to come up with essential is the normal rate of change with the market manipulation included since that is a constant.

Everything point to how July 2020 is suss AF.

TL;DR: Visuals and math suggest that GME and BTC were initially indirectly correlated. GME and BTC began to correlated with one another around July 2020.