

# Untitled

```
summary(cars)
```

```
##           speed           dist
##  Min.      : 4.0    Min.      : 2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.    :25.0    Max.     :120.00
```

```
mydf <- read.csv("final.csv") # load data
nrow(mydf)
```

```
## [1] 111534
```

```
ncol(mydf)
```

```
## [1] 34
```

## Randomize data

```
data_random <- mydf[sample(1:nrow(mydf)),]
head(data_random)
```

```
##           X FOMO FUD HODL MOON URL Unnamed..0 Unnamed..0.1 archived
## 74931 10236    0  0    0    0  0          7514          7514        NA
## 53324 53323    0  0    0    0  0          53323          1513         1
## 47645 47644    0  0    0    0  0          47644          1061         1
## 62003 62002    0  0    0    0  0          62002          2564        NA
## 49234 49233    0  0    0    0  0          49233          1574         1
## 59767 59766    0  0    0    0  0          59766           328        NA
##           author author_flair_css_class author_flair_text
## 74931 godgazillion
## 53324      borbus
## 47645      refto
## 62003      lglg666
## 49234      dghughes
## 59767      mgbyrnc
##
body
## 74931 Thinking its time to sell my original stake.  Its a tiny portion so it wi
ll have a negligible at best effect on my long term life if the price does what I
think will do.  However, I'm battling with myself between what is investing and wh
```

at is gambling? If I end up with some free coins than I've removed the gambling element right? I do think financially in the long run that it will be a terrible decision, but a moral one. I expect a ICO dot com boom style crash at some point over the next few months/years, but I'll hold the rest through all that. I have an armory wallet and paper backup. I can move BTC to bitstamp. However, how in gods name can I sell the same amount of the bitcoin cash?.....or bitcoin gold and diamond or whatever that is. Bitstamp doesn't accept it yet, and I don't want to move and lose the BCH (or others) when I'm cashing a bit out. Very much enjoyed this sub for a few years now. Merlin560, chewtoy, that u/nannal and loads of others have provided some interesting and great insights. Thanks. Any info will be very helpful

## 53324

The post you are replying to is more about how "mining" works than how bitcoin works as money. A "bitcoin" is something that you have to work for or pay for in some other way and that other people will work for or pay for in some way. What part do you not understand?

## 47645

If you read some two years ago, there were people who invested a ton in both AMD GPU bitcoin farms and AMD stock, they should have made out alright on the bitcoin farms but the stock, well... not so much.. \n\nGPU sales to bitcoin farmers were maybe high six figures, low seven figures tops, not enough to make a dent in AMDs financials.

## 62003

Yeah....this will be a long civil war between bitcoin and BCH.

## 49234

I believe that's the point, once the sticker is peeled revealing the private key you cash it in then the physical coin is worthless.\n\n But yes I agree with you a physical bitcoin seems counterintuitive to its reason for existence, but there may be a situation where it's needed.

## 59767

i think people like you may actually be more insidious than blatant shills\n\nbcash is a malicious chinese tumor but you paint it as, oh its just burgerking to bitcoin's mcdonalds\n\nyoure kinda a turd

##	controversiality	created_utc	distinguished	downs	gilded	id
## 74931	0	1511979533		NA	0	dqimkvd
## 53324	0	1386415117		0	0	cdvruqi
## 47645	0	1367592190		0	0	c9roe3d
## 62003	0	1510667404		NA	0	dpsxxm9
## 49234	0	1393737280		0	0	cfs8oj9
## 59767	1	1510622822		NA	0	dps7ldl

##	link_id	name	parent_id	pump	question	removal_reason
## 74931	t3_7gae0g		t3_7gae0g	0	1	NA
## 53324	t3_1saa9b	t1_cdvruqi	t1_cdvqxu7	1	1	NA
## 47645	t3_1dkk0l	t1_c9roe3d	t1_c9r80dr	1	0	NA
## 62003	t3_7cusz2		t3_7cusz2	1	0	NA
## 49234	t3_1z9y66	t1_cfs8oj9	t1_cfs8jzs	1	0	NA
## 59767	t3_7cs0m9		t1_dps7arq	1	0	NA

##	retrieved_on	score	score_hidden	sentiment	smiley_neg	smiley_pos
## 74931	1513132968	4	NA	0.9652	0	0
## 53324	1428355744	0	0	-0.2023	0	0
## 47645	1431337843	1	0	0.5106	0	0
## 62003	1512631890	0	NA	-0.5994	0	0
## 49234	1432620816	1	0	0.7050	0	0
## 59767	1512617925	1	NA	-0.0129	0	0

```
##          subreddit subreddit_id ups
## 74931 BitcoinMarkets      t5_2wwh3  NA
## 53324      programming      t5_2fwo   0
## 47645      investing      t5_2qhhq   1
## 62003      BitcoinCash      t5_34h22  NA
## 49234 TechNewsToday      t5_2sjnq   1
## 59767      Bitcoin      t5_2s3qj   NA
```

```
summary(data_random)
```

```
##          X          FOMO          FUD          HODL
## Min.      :    0  Min.      :0.000000  Min.      :0.00000  Min.      :0.00000
## 1st Qu.:13941  1st Qu.:0.000000  1st Qu.:0.00000  1st Qu.:0.00000
## Median :27883  Median :0.000000  Median :0.00000  Median :0.00000
## Mean    :28598  Mean    :0.001739  Mean    :0.00772  Mean    :0.01132
## 3rd Qu.:41825  3rd Qu.:0.000000  3rd Qu.:0.00000  3rd Qu.:0.00000
## Max.    :64693  Max.    :1.000000  Max.    :1.00000  Max.    :1.00000
```

```
##
##          MOON          URL          Unnamed..0          Unnamed..0.1
## Min.      :0.000000  Min.      :0.0000  Min.      :    0  Min.      :    0
## 1st Qu.:0.000000  1st Qu.:0.0000  1st Qu.: 1386  1st Qu.:  542
## Median :0.000000  Median :0.0000  Median : 9594  Median : 1287
## Mean    :0.006877  Mean    :0.2534  Mean    :19620  Mean    : 1953
## 3rd Qu.:0.000000  3rd Qu.:1.0000  3rd Qu.:36810  3rd Qu.: 2760
## Max.    :1.000000  Max.    :1.0000  Max.    :64693  Max.    :10260
```

```
##
##          archived          author          author_flair_css_class
## Min.      :0.00  BitcoinAllBot      : 5815          :94764
## 1st Qu.:0.00  tippr      : 2757  noflair      : 3501
## Median :1.00  [deleted]      : 1904  noob      : 3207
## Mean    :0.71  censorship_notifier:  540  bullllongterm:  543
## 3rd Qu.:1.00  AutoModerator      :  431  Training      :  525
## Max.    :1.00  bitcointip      :  404  training      :  360
## NA's    :84947  (Other)      :99683  (Other)      : 8634
```

```
##          author_flair_text
##          :96986
## redditor for 3 months: 1226
## Long-term Holder      :  543
## Bullish                :  357
## redditor for 2 months:  317
## redditor for 2 weeks :  310
## (Other)                :11795
```

```
##
body
## **Bitcoin (BTC) Basic Info:** [Website](https://bitcoin.org) - r/Bitcoin - [Ab
stract](https://www.reddit.com/r/CryptoWikis/wiki/Bitcoin_basicinfo#wiki_short_des
cription) - [History](https://www.reddit.com/r/CryptoWikis/wiki/Bitcoin_basicinfo#
wiki_history) - [Exchanges](https://www.reddit.com/r/CryptoWikis/wiki/Bitcoin_basi
cinfo#wiki_exchanges) - [Wallets](https://www.reddit.com/r/CryptoWikis/wiki/Bitcoi
n_basicinfo#wiki_wallets) \n\n**Biases:** [Arguments For](https://www.reddit.com/r
/CryptoWikis/wiki/Bitcoin_pros) & [Arguments Against](https://www.reddit.com/r
/CryptoWikis/wiki/Bitcoin_cons) | **CryptoWikis:** [Policy](https://www.reddit.com
```

```

/r/CryptoCurrency/wiki/policy#wiki_cryptowikis_program_-_28work_in_progress.29) -
[Contribute Content](https://www.reddit.com/r/CryptoWikis/wiki/contributing)\n\n--
-\n\n\n*I am a bot, and this action was performed automatically. Please [contact t
he moderators of this subreddit](/message/compose/?to=/r/CryptoCurrency) if you ha
ve any questions or concerns.*:      71
## It's called **Bitcoin Cash** or **BCC**/**XBC** abbreviated. [Why is this impo
rtant?](https://www.reddit.com/r/btc/comments/6r4no6/its_called_bitcoin_cash_the_t
erm_bcash_is_a/)\n**BCC** and **XBC** are the recommended ticker symbols on the [o
fficial website](https://www.bitcoincash.org) and used by all 4 current client imp
lementations.\n
:      70
## This is good for bitcoin.
:      61
## +1 Bitcoin. Verified.\n\n\nYou will be getting a bitcoin tip address shortly.\n
\n\n\nThanks, have a merry Christmas
:      57
## This is good for bitcoin
:      48
## bitcoin
:      47
## (Other)
:111180
## controversiality      created_utc      distinguished      downs
## Min.      :0.00000      Min.      :1.368e+09      :110948      Min.      :0
## 1st Qu.:0.00000      1st Qu.:1.446e+09      admin      :      3      1st Qu.:0
## Median :0.00000      Median :1.507e+09      moderator:      583      Median :0
## Mean      :0.02252      Mean      :1.479e+09      Mean      :0
## 3rd Qu.:0.00000      3rd Qu.:1.512e+09      3rd Qu.:0
## Max.      :1.00000      Max.      :1.522e+09      Max.      :0
## NA's      :84947
## gilded      id      link_id      name
## Min.      :0.000000      dn02b2z:      2      t3_7g9cd3:      772      :84947
## 1st Qu.:0.000000      dn02bcq:      2      t3_7hhpxs:      593      t1_c9rc1bc:      1
## Median :0.000000      dn02bpl:      2      t3_7lybxy:      357      t1_c9rc1px:      1
## Mean      :0.001013      dn02c7s:      2      t3_7rguaj:      357      t1_c9rc1tg:      1
## 3rd Qu.:0.000000      dn02c9p:      2      t3_1tod7a:      329      t1_c9rc2rl:      1
## Max.      :5.000000      dn02dsn:      2      t3_702o6b:      224      t1_c9rc5kw:      1
## (Other):111522      (Other) :108902      (Other) :26582
## parent_id      pump      question      removal_reason
## t3_7hhpxs:      492      Min.      :0.00      Min.      :0.0000      Mode:logical
## t3_1tod7a:      238      1st Qu.:0.00      1st Qu.:0.0000      NA's:111534
## t3_7g9cd3:      193      Median :1.00      Median :0.0000
## t3_7hmjdw:      103      Mean      :0.58      Mean      :0.3133
## t3_7gb4ou:      89      3rd Qu.:1.00      3rd Qu.:1.0000
## t3_1sbeq8:      70      Max.      :1.00      Max.      :1.0000
## (Other) :110349
## retrieved_on      score      score_hidden      sentiment
## Min.      :1.425e+09      Min.      : -236.000      Min.      :0      Min.      : -0.9996
## 1st Qu.:1.450e+09      1st Qu.:      1.000      1st Qu.:0      1st Qu.: -0.1027
## Median :1.507e+09      Median :      1.000      Median :0      Median : 0.2500
## Mean      :1.488e+09      Mean      :      4.577      Mean      :0      Mean      : 0.1933
## 3rd Qu.:1.514e+09      3rd Qu.:      3.000      3rd Qu.:0      3rd Qu.: 0.6474
## Max.      :1.526e+09      Max.      :17424.000      Max.      :1      Max.      : 0.9997
## NA's      :84947

```

##	smiley_neg	smiley_pos	subreddit
##	Min. :0.000000	Min. :0.00000	Bitcoin :36900
##	1st Qu.:0.000000	1st Qu.:0.00000	btc :12656
##	Median :0.000000	Median :0.00000	BitcoinAll : 6352
##	Mean :0.002753	Mean :0.01752	CryptoCurrency: 4741
##	3rd Qu.:0.000000	3rd Qu.:0.00000	BitcoinMarkets: 3965
##	Max. :1.000000	Max. :1.00000	ethtrader : 2726
##			(Other) :44194
##	subreddit_id	ups	
##	t5_2s3qj:36900	Min. : -155.00	
##	t5_2si5v:12656	1st Qu.: 1.00	
##	t5_39m7n: 6352	Median : 1.00	
##	t5_2wlj3: 4741	Mean : 3.65	
##	t5_2wwh3: 3965	3rd Qu.: 3.00	
##	t5_37jgj: 2726	Max. :3546.00	
##	(Other) :44194	NA's :76685	

# Model Fitting

```

train <- data_random[1:55766,]
test <- data_random[55767:111532,]

model <- glm(pump ~ sentiment + smiley_pos + smiley_neg + FOMO + MOON + HODL + FUD + question + URL, data = train, family = binomial)
modell <-glm(pump ~ sentiment + smiley_pos + smiley_neg + FOMO + MOON + HODL + FUD + question + URL, data = test, family = binomial)

summary(model)

```

```
##
## Call:
## glm(formula = pump ~ sentiment + smiley_pos + smiley_neg + FOMO +
##       MOON + HODL + FUD + question + URL, family = binomial, data = train)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.412   -1.305    1.023    1.054    1.526
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  0.28343    0.01157  24.494 < 2e-16 ***
## sentiment    0.01975    0.01626   1.215 0.224481
## smiley_pos   -0.07033    0.06537  -1.076 0.281986
## smiley_neg    0.08997    0.16216   0.555 0.579020
## FOMO         -0.73664    0.20241  -3.639 0.000273 ***
## MOON         -0.02994    0.10250  -0.292 0.770191
## HODL         -0.21003    0.08082  -2.599 0.009359 **
## FUD          -0.32007    0.09889  -3.237 0.001210 **
## question     0.07375    0.01879   3.924 8.7e-05 ***
## URL          0.07034    0.02009   3.502 0.000463 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 75894  on 55765  degrees of freedom
## Residual deviance: 75824  on 55756  degrees of freedom
## AIC: 75844
##
## Number of Fisher Scoring iterations: 4
```

# Interpret results of model

```
anova(model, test="Chisq")
```

```
## Analysis of Deviance Table
##
## Model: binomial, link: logit
##
## Response: pump
##
## Terms added sequentially (first to last)
##
##
```

	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
NULL			55765	75894	
sentiment	1	2.4573	55764	75892	0.1169763
smiley_pos	1	1.0320	55763	75891	0.3096848
smiley_neg	1	0.2666	55762	75891	0.6055927
FOMO	1	16.0783	55761	75875	6.078e-05 ***
MOON	1	0.2667	55760	75874	0.6055822
HODL	1	7.5805	55759	75867	0.0059004 **
FUD	1	9.8699	55758	75857	0.0016800 **
question	1	20.3428	55757	75837	6.474e-06 ***
URL	1	12.2851	55756	75824	0.0004566 ***

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
library(pscl)
```

```
## Classes and Methods for R developed in the
## Political Science Computational Laboratory
## Department of Political Science
## Stanford University
## Simon Jackman
## hurdle and zeroinfl functions by Achim Zeileis
```

```
pR2(model)
```

```
##          llh          llhNull          G2          McFadden          r2ML
## -3.791213e+04 -3.794722e+04  7.017913e+01  9.246938e-04  1.257666e-03
##          r2CU
##  1.691362e-03
```

# Predictive ability model

```
#fitted.results <- predict(model,newdata=subset(test,select=c(2,3,4,5,6,23,24,29,30,31)),type='response')
#train1 = data_random[1:55766,]

#glm.fit <- glm(pump ~ sentiment + smiley_pos + smiley_neg + FOMO + MOON + HODL + FUD + question + URL, data = data_random, family = binomial, subset = train1)

#glm.probs <- predict(glm.fit, newdata = data_random[!train1], type = "response")
#glm.pred <- ifelse(glm.probs > 0.5, "1", "0")

#pump1 = data_random$pump[!train1]
#table(glm.pred, pump)

#mean(glm.pred == pump1)

#misClasificError <- mean(fitted.results != test$pump)
#print(paste('Accuracy',1-misClasificError))
```