

Riddle Hash user's manual

Game description

RiddleHASH is a game of prediction the last symbol in the hash of the future block (next two blocks from the current). Each block in the Tron blockchain has a unique cryptographic signature - hash, consisting of 64 characters.

Example of block data (from the tronscan website):



- 1 - block number
- 2 - block hash
- 3 - last symbol at hash ending

Hash ending prediction is the core of the RiddleHASH game.

Every symbol in the hash is the hex digit from 0 to F.

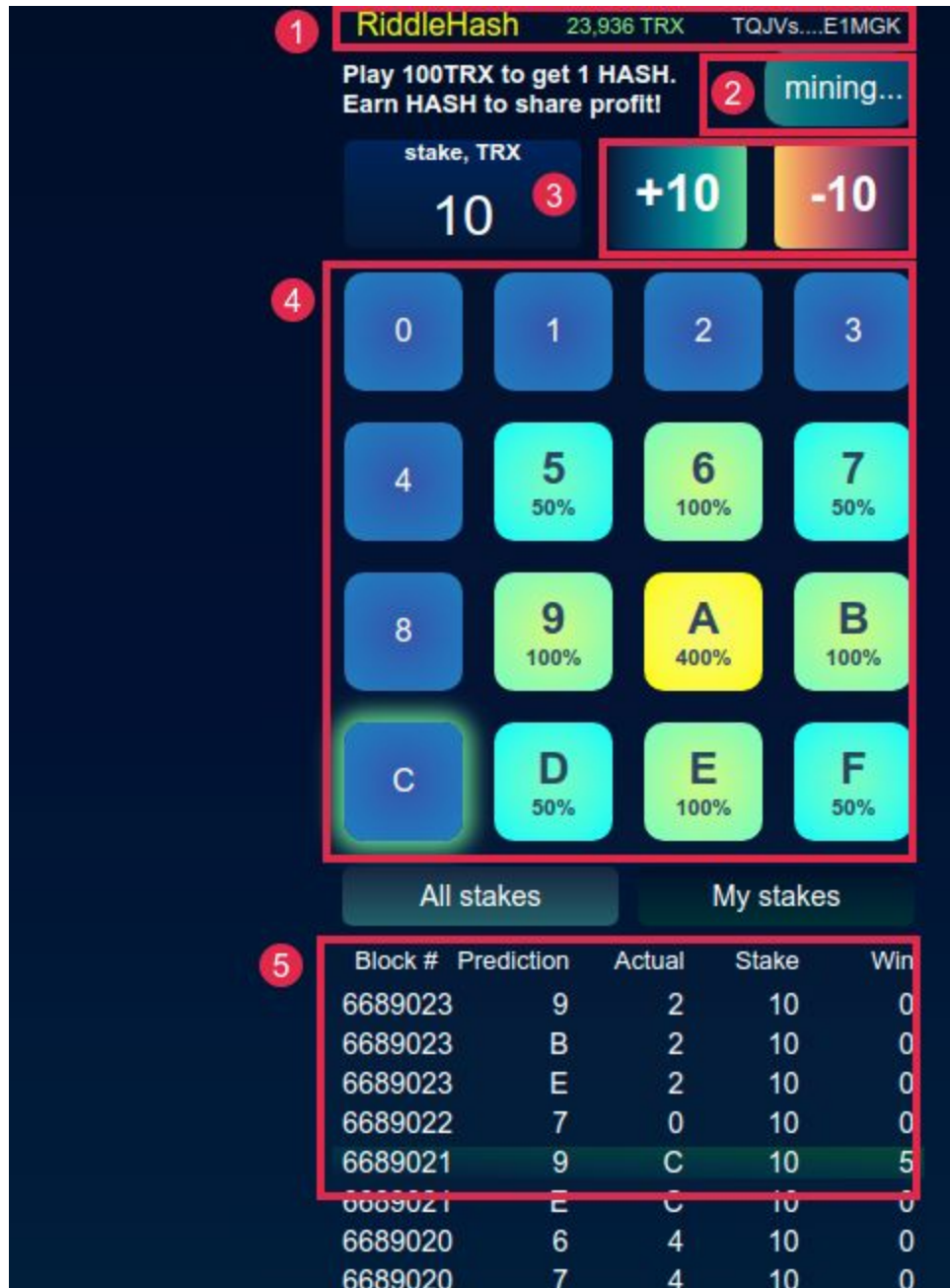
All of the game algorithms and functions made in smart-contract.

Game User Interface

RiddleHASH dapp game is a single page web application, with bet buttons, bets / wins short history, and a "mining" button.

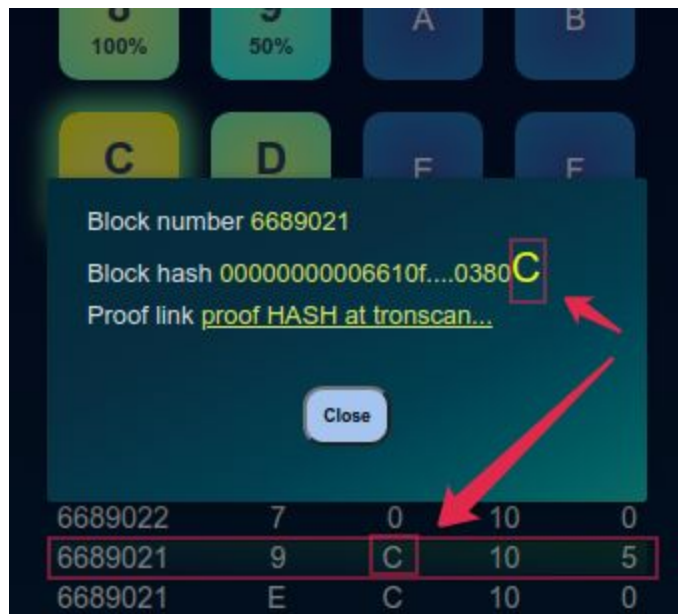
1. Player's wallet and its TRX balance
2. "Mining" button - open dashboard HASH and player's referral control
3. Up / Down stake value buttons
4. Stake buttons matrix, 16 buttons for each prediction (hash ending value)

5. Stakes history, can be “All stakes” (all players stakes) and “My stakes” (player’s stakes), history table columns:
 - a. “Block #” prediction block number
 - b. “Prediction” - prediction value
 - c. “Actual” - actual hash ending value
 - d. “Stake” - player’s stake
 - e. “Win” - player stake’s win, depends on prediction accuracy



Players can make a stake, by pressing one of the prediction buttons at prediction matrix (4). Stake default value is 10 TRX, it can be changed by pressing up / down stake buttons (3)

Proving the game stake result



To make sure of correctness game outcome, you can click on the stake at the stakes history - the block hash detail window will be opened.

The last hash symbol of the “Block hash” field must correspond to the “Actual” field from the stakes history, at the picture it is “C” value.

For additional proof of the correctness, you can click the link "proof HASH at tronscan ..." - a page with information about the block will open at tronscan.org (tron official block explorer), where you can make sure the game's block hash is correct.

Stakes

There are can be stakes from 10 TRX to 100 TRX¹.

The three kind of win outcome:

- Maximum
- Middle
- Minimum

At the stake matrix, the winnings distribution (1, 2, 3) and the current block hash ending value (5) are shown by color indication.

1. If the block ending value exactly matches the prediction, the maximum payout will occur, which is many times higher than the rate, in this case, four times (400%).

¹ The minimum and maximum allowed stakes values are subject to change in the future

2. If the block ending value not exactly matches the prediction, but will be nearest (by matrix) value, middle payout will occur, in this case, stake value will back (100%).
3. If the block ending value not exactly matches the prediction, but will be diagonally nearest (by the matrix) value, minimum payout will occur, in this case, half stake value will be back (50%).
4. If the block ending value does not match the prediction, and will not be the nearest (by the matrix) value, there will be no payout.
5. The current block ending is highlighted by the bright illumination of the corresponding button.



Thus, for example, in the case of an accurate prediction, the player receives a payout of 400% of the stake, in case of a slight deviation from the prediction, he receives a win of 100% or 50%.²

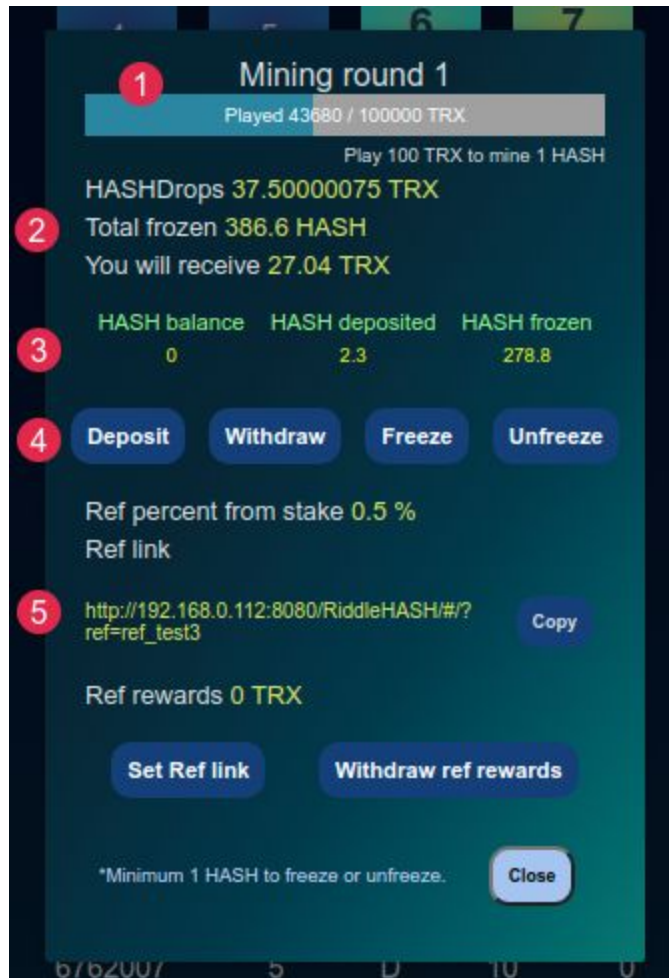
“Mining...” button

Every player, in addition to winning on game stakes, can earn income from the HASH token mining and the referral program.

The HASH token is instantly credited to the player for each stake, depending on the stake size. The “frozen” HASH tokens bring a player daily dividend income part of the total income of the game (game smart-contract). Details in the ["HASH Token" section](#).

After pressing the "mining ..." button, opens a window - dashboard for managing the HASH token mining and the referral program settings.

² Winnings percentage can be changed in the future



Dashboard elements description:

1. Total game statistics - round number and its progression
2. Profit distribution info for frozen HASH tokens holders:
 - a. "HASHDrops" - the dividend amount for distribution among frozen HASH token holders
 - b. "Total Frozen" - HASH tokens total frozen amount
 - c. "You will receive" - your reward, according to your share of all frozen HASH tokens amount
3. Your HASH token balance info:
 - a. "HASH balance" - total HASH tokens on the player's wallet (outside the game contract). Here are the tokens that are available for sending to external wallets
 - b. "HASH deposited" - deposited at the game contract. Here tokens are accumulated from stakes made
 - c. "HASH frozen" - frozen tokens amount. These tokens participate in the game profits distribution (described in "HASHDrops")
4. HASH token control buttons:
 - a. "Deposit" - opens the form for sending from "HASH balance" -> "HASH deposited"
 - b. "Withdraw" - opens the form for sending from "HASH deposited" -> "HASH balance" (the opposite action is "Deposit")

- c. "Freeze" - opens the form for sending from "HASH deposited" -> "HASH frozen"
 - d. "Unfreeze" - opens the form for sending from "HASH frozen" -> "HASH deposited" (the opposite action is "Freeze")
5. Manage referral program:
- a. "Ref percent from stake" - the percentage rate from each stake made by the referral link
 - b. "Ref link" - your unique referral link, the "Copy" button - copies your referral link to the clipboard
 - c. "Ref rewards" - your current referral earnings available for withdrawal
 - d. "Set Ref Link" - opens a form for setting your unique referral link (can set once for wallet)
 - e. "Withdraw ref rewards" - opens a form for withdraw referral TRX from the game smart contract to the wallet.

HASH token

For each stake, the player is awarded a HASH reward token.

The HASH token allows the player to get share of the smart contract profit, the share depends on the number of player's frozen HASH to the total number of frozen HASH.

The HASH token is a TRC-20 token (analogous to ERC-20), you can withdraw it to your wallet and send it to another wallet.

HASH token mining is embedded in the logic of the smart contract and depends on rounds. Each round presupposes conditions for HASH mining. So, in the first round, to mine 1 HASH, you need to make stakes for a total amount of 100TRX, (if you put 10TRX, 0.1HASH is mined). In the second round, you will need to stake 300TRX for 1 HASH, etc. Every round mines 1000 HASH in total. Mining HASH gets harder with every next round.

HASH mining table grid by rounds (first ten rounds)

Round	From TRX	To TRX	Round size, TRX	Ratio
1	0	100,000	100,000	100
2	100,000	400,000	300,000	300
3	400,000	900,000	500,000	500
4	900,000	1,600,000	700,000	700
5	1,600,000	2,500,000	900,000	900
6	2,500,000	3,600,000	1,100,000	1,100
7	3,600,000	4,900,000	1,300,000	1,300
8	4,900,000	6,400,000	1,500,000	1,500
9	6,400,000	8,100,000	1,700,000	1,700
10	8,100,000	10,000,000	1,900,000	1,900

Table columns:

- "Round" - round number
- "From TRX" - the beginning of the round range, from the stakes made in TRX
- "To TRX" - the end of the round range, from the stakes made in TRX
- "Round size, TRX" - round amount value in TRX
- "Ratio" - the HASH mining ratio, (how much TRX you need to stake for mining 1 HASH token)

Referral program

Each player has access to a referral program that allows to register their own unique link and attract other players.

From each player who comes by ref link, the ref link owner is rewarded 0.5% of each stake value, regardless of the stake outcome.

Accrual occurs immediately after the bet. Referral rewards are accumulated on a smart contract and the ref link owner can withdraw these coins by himself.