



Quintessência

1.0 Arremate ou Melhora de Marcas Epistêmicas

| | | | | |
|-------------------|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 |
| Traços de Partida | | | | |



O fazimento epistêmico que da forma e realiza os objetos matemáticos, sobrepondo marcas sob marcas, é uma diligência transformativa quintessencial: inicia com um traço de partida (coisa) de pouco conteúdo lógico e termina com um traço singular de chegada (símbolo) de muito conteúdo lógico.



| | | | | | | | |
|-------------------|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | a | b | c | d | e | f |
| Traços de Chegada | | | | | | | |

Base 10 X Base 16



3.0 Operações no Sistema Hexadecimal

| | |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| $7 \times 7 \equiv 31$ $\begin{array}{r} 49 \underline{\underline{16}} \\ 1 \quad 3 \\ \leftarrow \end{array}$ | $9 \times a \equiv 5a$ $\begin{array}{r} 90 \underline{\underline{16}} \\ 10 \quad 5 \\ \leftarrow \end{array}$ |
| $a \times 7 \equiv 46$ $\begin{array}{r} 70 \underline{\underline{16}} \\ 6 \quad 4 \\ \leftarrow \end{array}$ | $e \times c \equiv a8$ $\begin{array}{r} 168 \underline{\underline{16}} \\ 8 \quad 10 \\ \leftarrow \end{array}$ |

Exemplos de Multiplicação Hexadecimal

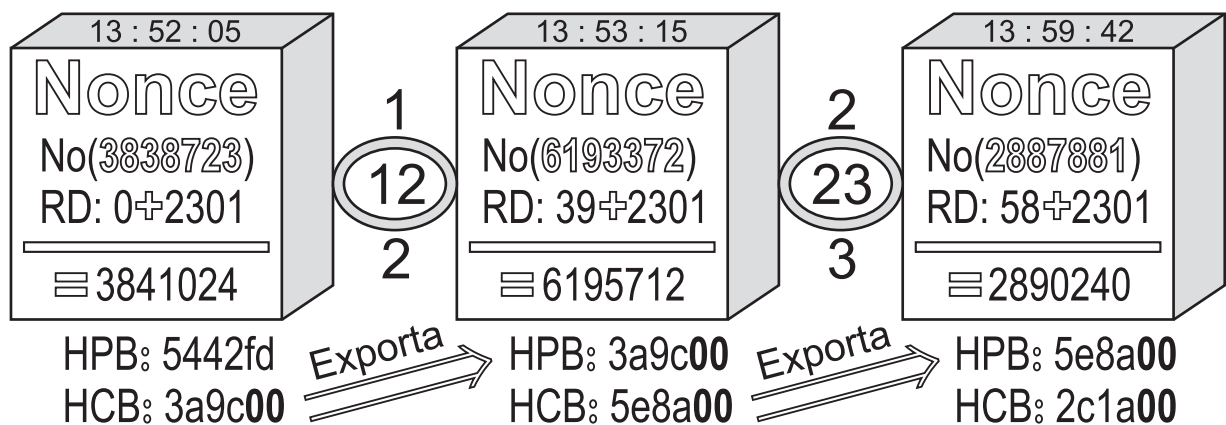
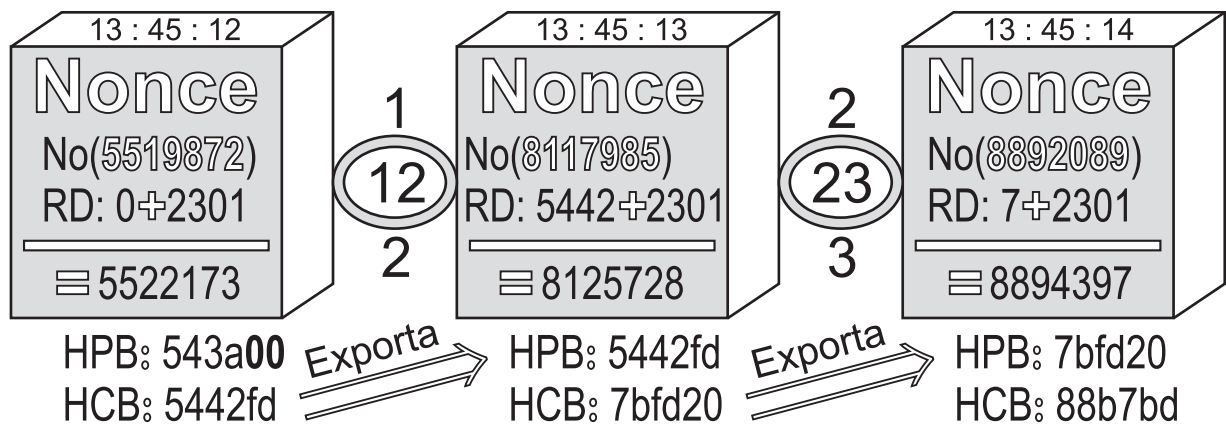
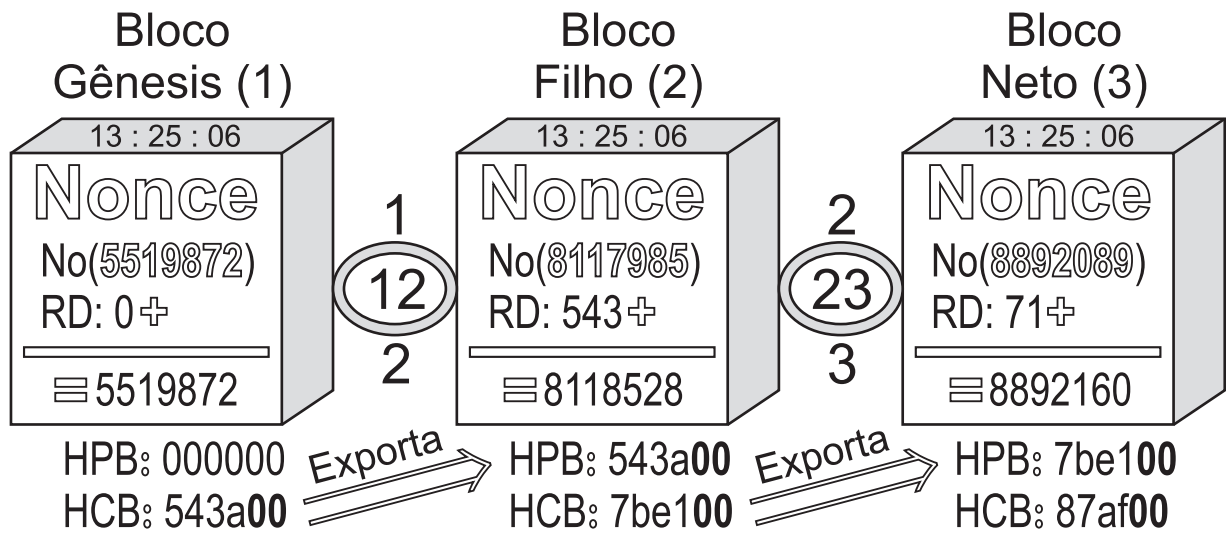
| X | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
| 2 | 0 | 2 | 4 | 6 | 8 | a | c | e | 10 | 12 | 14 | 16 | 18 | 1a | 1c | 1e |
| 3 | 0 | 3 | 6 | 9 | c | f | 12 | 15 | 18 | 1b | 1e | 21 | 24 | 27 | 2a | 2d |
| 4 | 0 | 4 | 8 | c | 10 | 14 | 18 | 1c | 20 | 24 | 28 | 2c | 30 | 34 | 38 | 3c |
| 5 | 0 | 5 | a | f | 14 | 19 | 1e | 23 | 28 | 2d | 32 | 37 | 3c | 41 | 46 | 4b |
| 6 | 0 | 6 | c | 12 | 18 | 1e | 24 | 2a | 30 | 36 | 3c | 42 | 48 | 4e | 54 | 5a |
| 7 | 0 | 7 | e | 15 | 1c | 23 | 2a | 31 | 38 | 3f | 46 | 4d | 54 | 5b | 62 | 69 |
| 8 | 0 | 8 | 10 | 18 | 20 | 28 | 30 | 38 | 40 | 48 | 50 | 58 | 60 | 68 | 70 | 78 |
| 9 | 0 | 9 | 12 | 1b | 24 | 2d | 36 | 3f | 48 | 51 | 5a | 63 | 6c | 75 | 7e | 87 |
| a | 0 | a | 14 | 1e | 28 | 32 | 3c | 46 | 50 | 5a | 64 | 6e | 78 | 82 | 8c | 96 |
| b | 0 | b | 16 | 21 | 2c | 37 | 42 | 4d | 58 | 63 | 6e | 79 | 84 | 8f | 9a | a5 |
| c | 0 | c | 18 | 24 | 30 | 3c | 48 | 54 | 60 | 6c | 78 | 84 | 90 | 9c | a8 | b4 |
| d | 0 | d | 1a | 27 | 34 | 41 | 4e | 5b | 68 | 75 | 82 | 8f | 9c | a9 | b6 | c3 |
| e | 0 | e | 1c | 2a | 38 | 46 | 54 | 62 | 70 | 7e | 8c | 9a | a8 | b6 | c4 | d2 |
| f | 0 | f | 1e | 2d | 3c | 4b | 5a | 69 | 78 | 87 | 96 | a5 | b4 | c3 | d2 | e1 |

Operações Hexadecimais

X Tabela de Multiplicação X



5.0 Construção de Três Blocos Interligados por Hash



Blockchain de Lousa



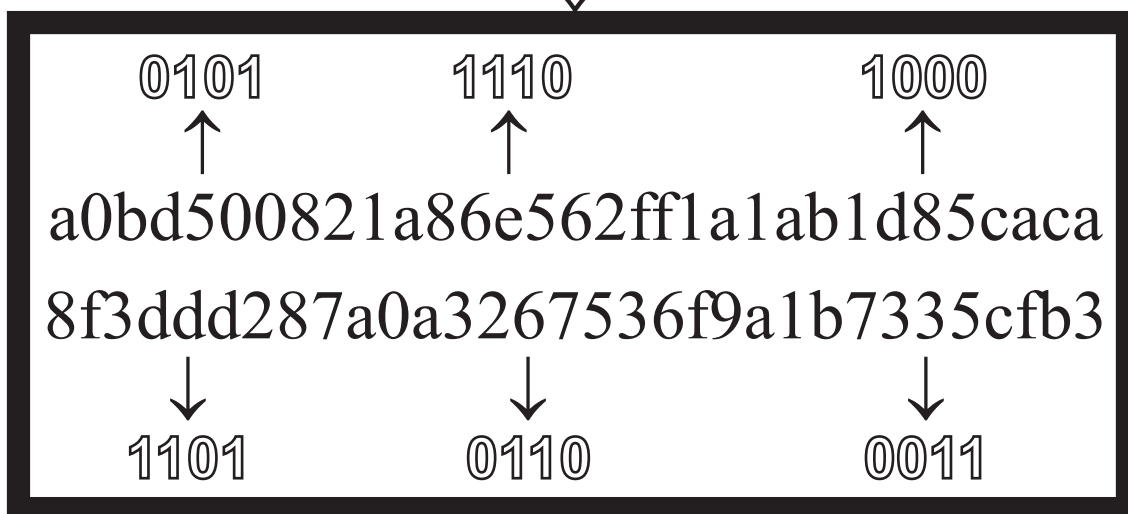
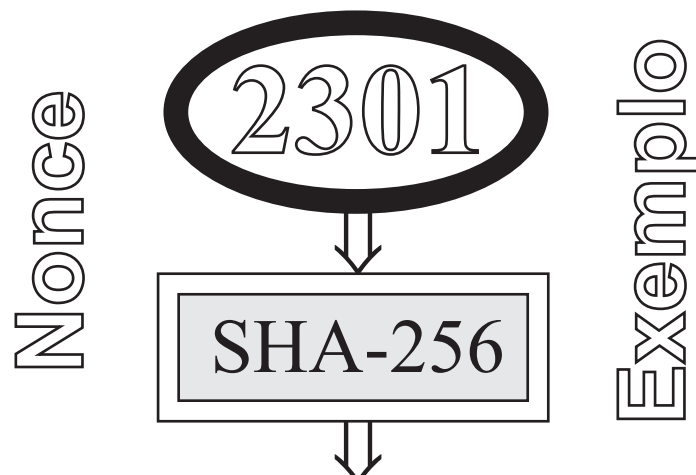
SHA-256

O Algoritmo SHA-256 é formado com 64 caracteres dos tipos:

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Sendo cada um dos caracteres compostos por 4 bits: $4 \times 64 = 256$

| | | | | | | | |
|---|------|---|------|---|------|---|------|
| 0 | 0000 | 4 | 0100 | 8 | 1000 | c | 1100 |
| 1 | 0001 | 5 | 0101 | 9 | 1001 | d | 1101 |
| 2 | 0010 | 6 | 0110 | a | 1010 | e | 1110 |
| 3 | 0011 | 7 | 0111 | b | 1011 | f | 1111 |



Secure Hash Algorithm



Bloco Gênese (1) , Timestamp (12:43:07)

Recorded Data:

Nonce: 604

HPB: 000000000000000000000000000000000000
000000000000000000000000000000000000

HCb: 000dc75a315c77a1f9c98fb6247d03dd
18ac52632d7dc6a9920261d8109b37cf

Bloco Filho (2) , Timestamp (12:43:07)

Recorded Data:

Nonce: 5257

HPB: 000dc75a315c77a1f9c98fb6247d03dd
18ac52632d7dc6a9920261d8109b37cf

HCb: 00097c0b03162b064a1dd10ef9ef5309
0a19bc62deacaa9497ca4d88c32d6d1f

Bloco Filho (3) , Timestamp (12:43:07)

Recorded Data:

Nonce: 12799

HPB: 00097c0b03162b064a1dd10ef9ef5309
0a19bc62deacaa9497ca4d88c32d6d1f

HCb: 0005b02193ef77779f2076b8ed046d2e
396fa51af302285561048e32d1cc6b13

Bloco Filho (4) , Timestamp (12:43:07)

Recorded Data:

Nonce: 12428

HPB: 0005b02193ef77779f2076b8ed046d2e
396fa51af302285561048e32d1cc6b13

HCb: 0000afd5ed71df21f2846adc593254ae
ce79297f34a8174acc01c3497604c159



Bloco Gênesis (1) , Timestamp (12:45:16)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: **000**dc75a315c77a1f9c98fb6247d03dd
18ac52632d7dc6a9920261d8109b37cf

HCB: 90c4845b3faa58540d07d85d473a6dfe
962d73d93402fe7193ac17ff20022fe5

Bloco Filho (2) , Timestamp (12:45:16)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: 90c4845b3faa58540d07d85d473a6dfe
962d73d93402fe7193ac17ff20022fe5

HCB: 52c9fef7ef205108dcbc9162045f051f
e3a56fc260cf0c547847166e68b64765

Bloco Filho (3) , Timestamp (12:45:16)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: 52c9fef7ef205108dcbc9162045f051f
e3a56fc260cf0c547847166e68b64765

HCB: 198775d57c6efa620200612722bdd7bb
52094f30fe7ce2db498b11440d5e006f

Bloco Filho (4) , Timestamp (12:45:16)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: 198775d57c6efa620200612722bdd7bb
52094f30fe7ce2db498b11440d5e006f

HCB: 74c77751349e449ed75b157ffe016b32
fa9c9e64a7784fc5f97d65e0de1e74a



Bloco Gênese (1) , Timestamp (12:56:17)

Recorded Data: **12 bitcoin**

Nonce: **1698**

HPB: **000**000000000000000000000000000000000000
 0000000000000000000000000000000000000000

HCB: **000**c11d5d2b79de28cf13623fabe88c6
 5d6741f7e7c2fe78915671b24dd20cc7

Bloco Filho (2) , Timestamp (12:56:17)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: **000**c11d5d2b79de28cf13623fabe88c6
 5d6741f7e7c2fe78915671b24dd20cc7

HCB: d78fb9b1befb6a20920867cdcb6737ba
 363f96ff26840dde23af60df16f94e18

Bloco Filho (3) , Timestamp (12:56:17)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: d78fb9b1befb6a20920867cdcb6737ba
 363f96ff26840dde23af60df16f94e18

HCB: 2efb62c9d631dd2eebe5f1571c624bdf7
 9373d54ca15ea26a4969ad10cfd1a46

Bloco Filho (4) , Timestamp (12:56:17)

Recorded Data: **12 bitcoin**

Nonce: ?

HPB: 2efb62c9d631dd2eebe5f1571c624bdf7
 9373d54ca15ea26a4969ad10cfd1a46

HCB: bd7bdcb89084af6b86f74bc00dfe2e04
 c28c2f5a66aa59063aafafd320cb81f5