

110590450 歐佳昀 資工三 checksum 作業
ERC-55

- 以太坊的帳戶位址是不分大小寫的
- 一個利用字母大小寫來檢查以太坊帳戶的校驗機制
 - 避免輸入錯誤
 - 避免傳輸錯誤

1. 原始的帳戶位址

0x0192Be4CbFDaf016544fEE39b3e3Ae126137D70f

2. 刪除 0x

0192Be4CbFDaf016544fEE39b3e3Ae126137D70f

3. 全部轉換為小寫

0192be4cbfdaf016544fee39b3e3ae126137d70f

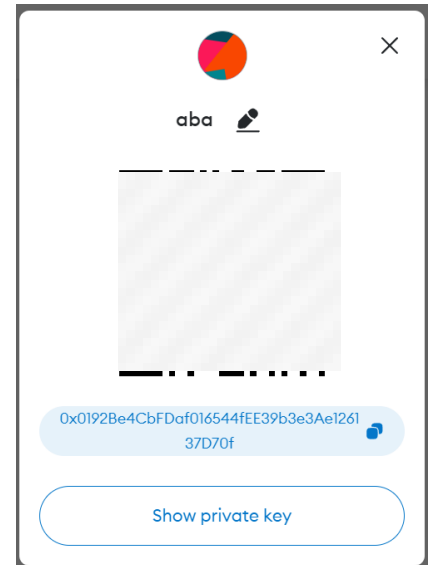
4. 以 Keccak-256 演算法計算雜湊值，取前 40 個字元

➔ Keccak-256 演算法計算雜湊值

e2fae2694bb21ffe6e34fc15742be332655fdee6085accf578e93b0d67be766b

➔ 取前 40 個字元

e2fae2694bb21ffe6e34fc15742be332655fdee6085accf578e93b0d67be766b



Keccak-256算法加密计算器

An advertisement for Rakuten Travel. It features a photograph of a modern hotel building and a street view. Above the photo are two award medals: 'Rakuten Travel Silver Award 2021' and 'Rakuten Travel Bronze Award 2020'. The Rakuten Travel logo is on the left. The price '\$846' is displayed at the bottom left. At the bottom right, there is a red button with the text '點擊此處' (Click here) and a small text label '別府站前海濱飯店' (Beppu Station Seaside Hotel).

字符串

0192be4cbfdaf016544fee39b3e3ae126137d70f

加密

加密结果

e2fae2694bb21ffe6e34fc15742be332655fdee6085accf578e93b0d67be766b

線上轉換工具網址：<https://m.jisuan.mobi/m40.html>

5. 、判斷雜湊值的每個字元，調整對應位置的帳戶位址，0~7 為小寫，8~f 為大寫，數字則不用理會

e2fae2694bb21ffe6e34fc15742be332655fdee6

1011100101100111010011000001100000011110

0192Be4CbFDaf016544fEE39b3e3Ae126137D70f

6. 加回 0x

0x+0192Be4CbFDaf016544fEE39b3e3Ae126137D70f

⇒ 0x0192Be4CbFDaf016544fEE39b3e3Ae126137D70f

和原始帳戶

⇒ 0x0192Be4CbFDaf016544fEE39b3e3Ae126137D70f 相同