

## DHH101 Hash & Index

1. Hash is a very convenient form of index.

In this article, we demonstrate how to generate DMeta hash for a string, and to use the hash as an index by which Internet users may search or retrieve that string.

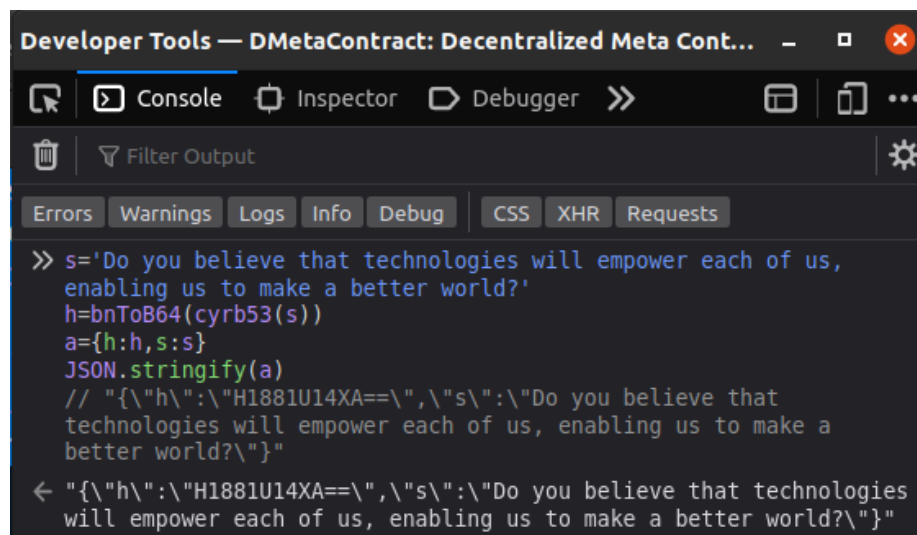
2. Steps:

- a. Navigate to with a browser:

- <https://godmeta.github.io/dmcontract/>

- b. Open developer console (F12) and copy the code below and execute it:

- <https://github.com/godmeta/godmeta.github.io/blob/main/gdb/dmq.js>

A screenshot of a web browser's developer tools console. The title bar reads "Developer Tools — DMetaContract: Decentralized Meta Cont...". The "Console" tab is selected. The code being executed is as follows:

```
>> s='Do you believe that technologies will empower each of us,
enabling us to make a better world?'
h=bnToB64(cyrb53(s))
a={h:h,s:s}
JSON.stringify(a)
// {"h":"H1881U14XA==","s":"Do you believe that
technologies will empower each of us, enabling us to make a
better world?"}
```

The output of the code is shown below the code:

```
← {"h":"H1881U14XA==","s":"Do you believe that technologies
will empower each of us, enabling us to make a better world?"}
```

- c. Save the output json string as:

- <https://github.com/godmeta/godmeta.github.io/blob/main/gdb/dmq.json>

- d. Execute the following Phoscript command to retrieve the json string:

```
$ php phos.php
```

```
https://raw.githubusercontent.com/godmeta/godmeta.github.io/main/gdb/dmq.json
```

```
curl: sslh: jd: s:
```

```
hongwu@hongwu-Dell-System-XPS-15Z:~/devel/2022/dmeta/auth$ php phos.php https://raw.githubusercontent.com/godmeta/godmeta.github.io/main/gdb/dmq.json curl: sslh: jd: s:
fgl_s 319 < 3 > array ( 0 => array ( 0 => 'phos.php', 1 => 'https://raw.githubusercontent.com/godmeta/godmeta.github.io/main/gdb/dmq.json', 2 => 'curl:', 3 => 'sslh:', 4 => 'jd:', 5 => 's:', ), 1 => 'phos.php', 2 => array ( 'h' => 'H1881U14XA==', 's' => 'Do you believe that technologies will empower each of us, enabling us to make a better world?', ), )
```