Houdini [illegible]

[illegible]

Houdini[illegible] HScript [illegible] Python [illegible] VEX [illegible] VEX snippets [illegible]

HScript [illegible]	[illegible] expression functions [illegible]
Python	[illegible] Houdini Object Model API [illegible] Python [illegible]
VEX	[illegible]

[illegible] HScript [illegible] Python [illegible] Python parameter expressions.

[illegible]

- [illegible]
- [illegible] Font node [illegible] Variables are expanded [illegible]

  ```
  frame`padzero(5, $F)`.pic
  ```

  …[illegible] `frame00001.pic`, `frame00002.pic`, [illegible]

[illegible] expressions in filenames [illegible]

[illegible]

[illegible] Houdini [illegible]

- [illegible] `$F` (the current frame number) [illegible] `$T` (the current time in seconds). [illegible] list of global variables [illegible]
- [illegible] HSc `@`[illegible] `@pscale` [illegible] `pscale` ([illegible]) [illegible]
- [illegible] `P` (position) [illegible] `@P.x` [illegible] `.x/.y/.z` [illegible] `.1/.2/.3` [illegible] `.r/.g/.b` [illegible]
- [illegible] `@ptnum` [illegible] Point [illegible]
- [illegible] `$HIP` [illegible]

[illegible]/[illegible]

[illegible] HScript ch [illegible]

> [illegible] spare parameters. [illegible]

[illegible]...	[illegible]
[illegible]	1. [illegible] **Copy parameter**. [illegible] 2. [illegible] **Paste relative reference**. [illegible] Houdini [illegible] `ch("")` [illegible]

[illegible]	[illegible] HScrpt ch [illegible]
	`ch` [illegible] Z [illegible]
	`ch("tz")`
	[illegible] `lamp` [illegible] X [illegible]
	`ch("/obj/lamp/tx")`
	[illegible] `grid1` [illegible] Y [illegible]
	`ch("../grid1/ry")`
	([illegible] chs.) [illegible]

[illegible]	[illegible] ▸ [illegible] **Name** [illegible]

[illegible]

[illegible] HScript [illegible] Point Wrangle [illegible] Attribute Wrangle [illegible] VEX snippet [illegible]

[illegible] VEX [illegible]

[illegible] **Window ▸ HScript Textport** [illegible]

```
echo `expression`
```

Houdini [illegible] Network [illegible] “[illegible]” “[illegible]” [illegible]

[illegible] Point geometry node [illegible] Y [illegible]

Position Y	`@P.y + rand(@Frame * @ptnum)`

…[illegible]

HScript[illegible]

[illegible]

[illegible] (`'`) [illegible] is not expanded. Text inside double quotes (`"`) has variables expanded. A double-quoted string is considered one argument.

A backslash character (`\`) escapes the next character. For example, to use double-quotes in a string:

```
"I had a \"great\" time."
```

When a string doesn’t require variable expansion, use single quotes to speed up evaluation.

If you have two quoted strings next to each other with no spaces, they are considered a single argument. In this example...

```
set foo = "Hello world"
echo '$foo='"$foo"
$foo=Hello world
```

...the echo command has one argument: `'$foo=Hello world'`.

Embedding

In the HScript command language, text inside backticks is evaluated as an expression. For example:

```
echo `strlen("$foo")`
```

Tip

Scripting using the HScript command language is deprecated. You should use Python instead.

The string parser cannot decode nested quotes such as in the following (horribly contrived) example:

```
echo `system("echo `ls`")`
```

...however, it is possible to accomplish this with very careful usage of backquotes (and sometimes multiple backquotes in a row) to protect quote symbols from various levels of evaluation:

```
echo `system('echo \`ls\`')`
```

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