

Home > Docs > Chrome DevTools > More panels

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Format and style messages in the Console



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This guide shows you how to format and style messages in the [Chrome DevTools Console](#). See [Get Started With Logging Messages](#) to learn how to log messages to the Console.

This guide assumes that you understand the fundamentals of web development, such as how to use JavaScript to add interactivity to a page.

Format console messages

You can use the [format specifiers](#) to format the console messages.

Format specifiers begin with a percent character (%) and terminate with a "type character" which indicates the type of data (integer, float, etc.).

For example,

- [Open the Console](#)
- Enter the following console command. `js const tools = 'Chrome DevTools'; console.warn('%s is awesome.', tools);`
- The command above produces `Chrome DevTools is awesome.` message.



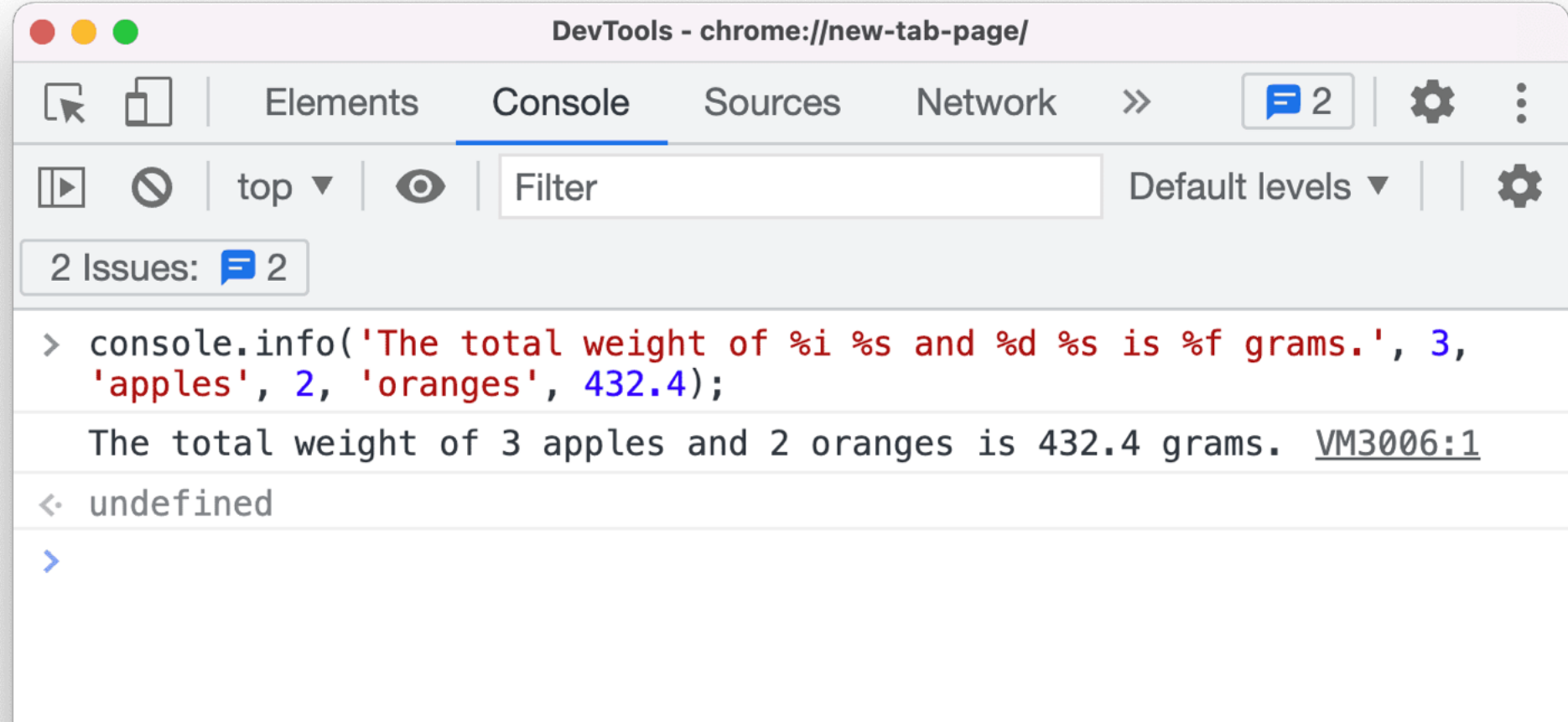
Here is the list of [format specifiers](#) Chrome DevTools support currently.

Specifier	Output
%s	Formats the value as a string
%i or %d	Formats the value as an integer
%f	Formats the value as a floating point value
%o	Formats the value as an expandable DOM element
%O	Formats the value as an expandable JavaScript object
%c	Applies CSS style rules to the output string as specified by the second parameter

Apply multiple format specifiers

You can use more than one format specifier in a message.

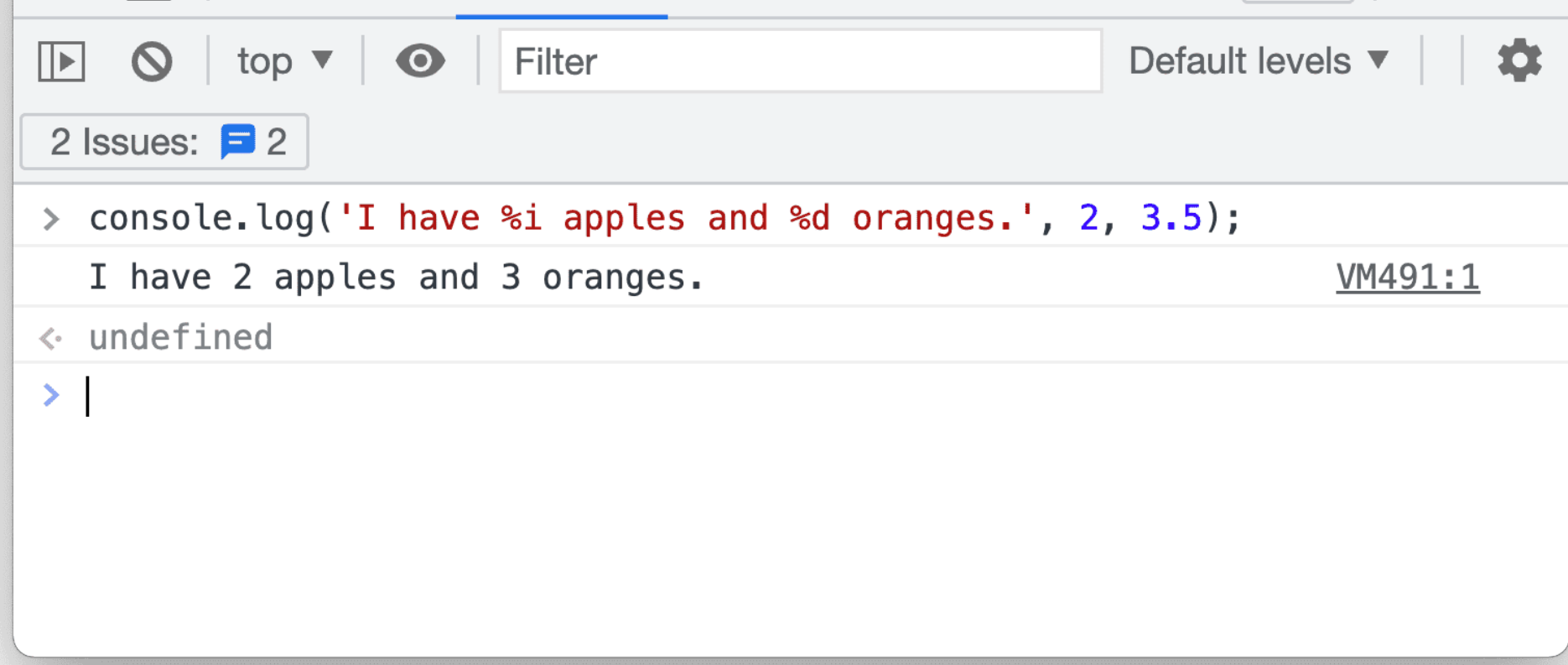
- Enter the following console command. `js console.info('The total weight of %i %s and %d %s is %f grams.', 3, 'apples', 2, 'oranges', 432.4);`
- The command above produces `The total weight of 3 apples and 2 oranges is 432.4 grams.` message.



Understand type conversions

The output message will be converted according to the format specifier.

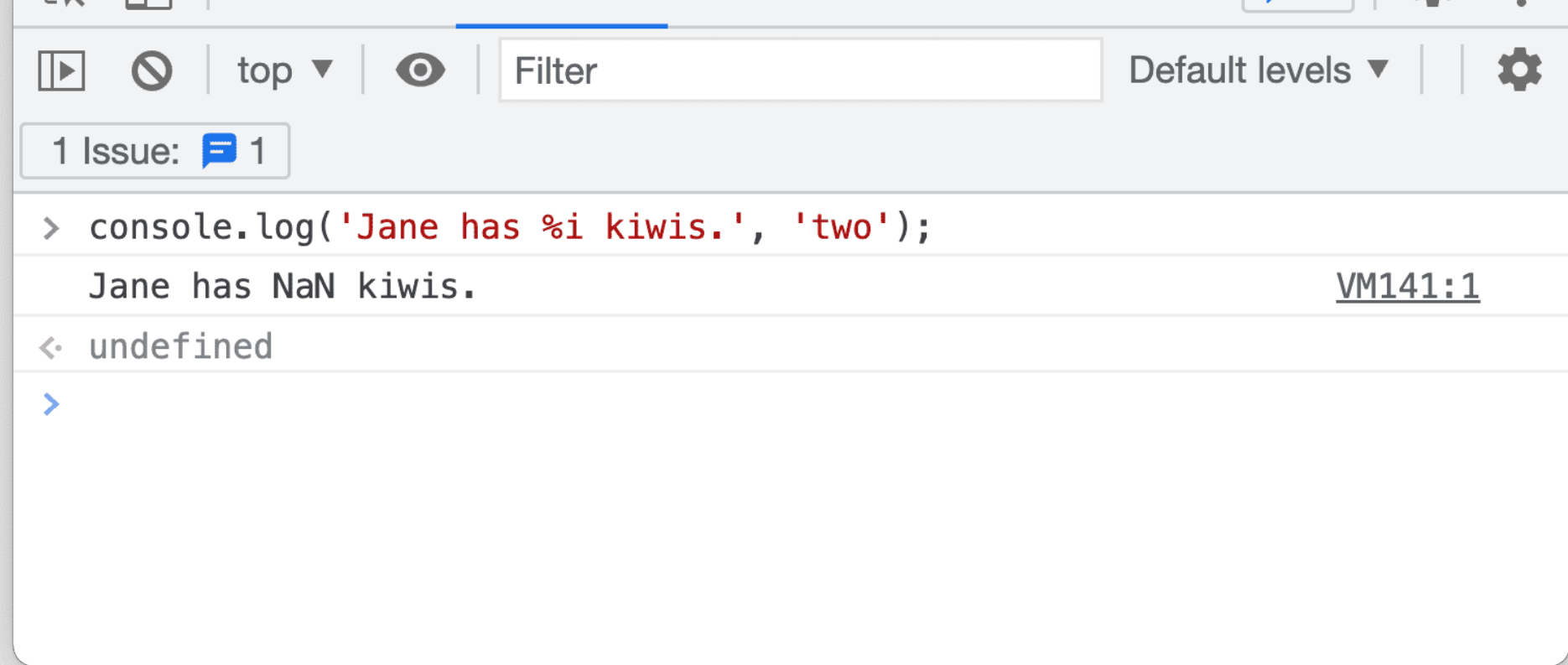
- Enter the following console command. `js console.log('I have %i apples and %d oranges.', 2, 3.5);`
- The command above produces `I have 2 apples and 3 oranges.` message.



- Instead of logging `3.5 oranges`, the output is `3 oranges`. The `%d` indicates that the value should/will be converted to an integer.

Here is an example of what happens if the type conversion is invalid.

- Enter the following console command. `js console.log('Jane has %i kiwis.', 'two');`
- The command above produces `Jane has NaN kiwis.` message.



- The `%i` indicates that the value should/will be converted to an integer, but the argument is a string. Thus it returns `NaN (Not-A-Number)`.

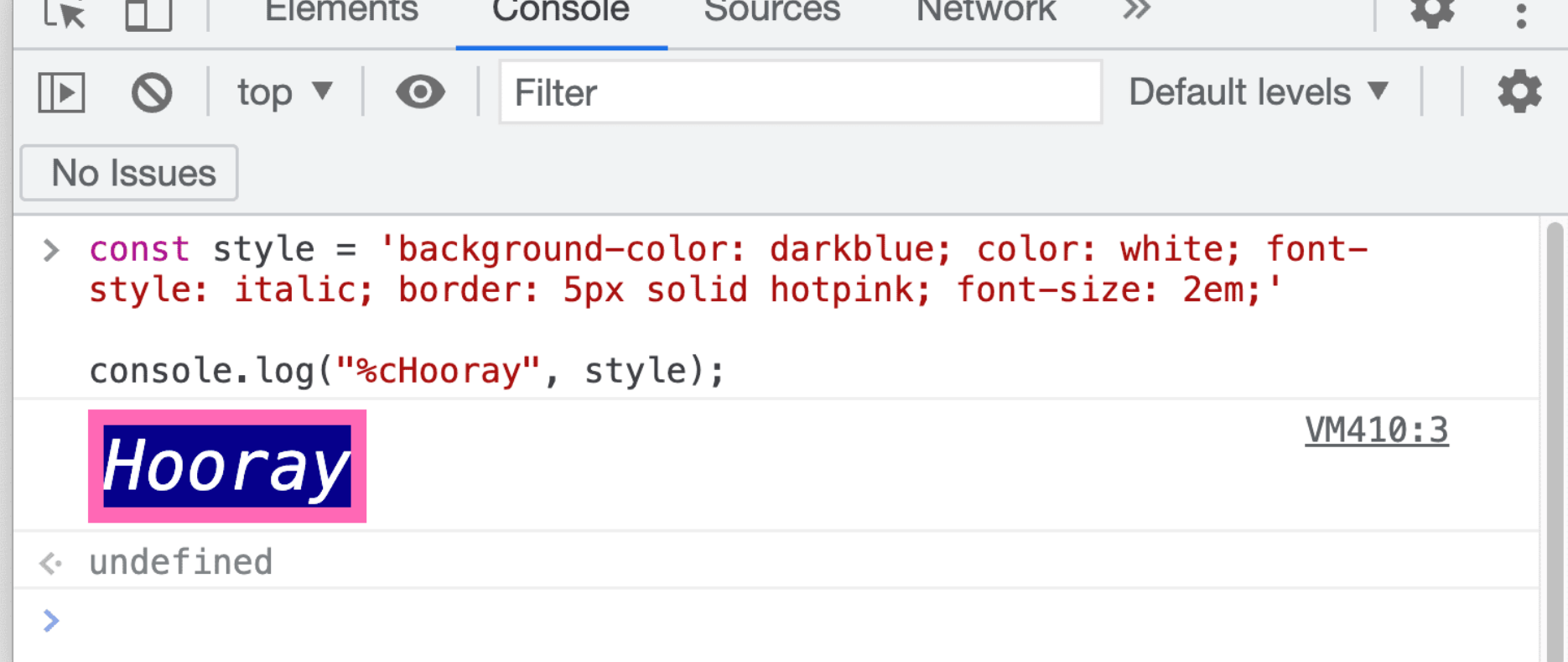
Style console messages

There are two ways to style console messages in DevTools.

Style with format specifier

You can use the `%c` format specifier to style the console messages with CSS.

- Enter the following console command. `js const style = 'background-color: darkblue; color: white; font-style: italic; border: 5px solid hotpink; font-size: 2em;'; console.log("%cHooray", style);`
- The command above produces `Hooray` with CSS styles applied.



Key point: To prevent data leaks and bypasses of security policies, in this format, the `url()` CSS function supports only the [data:URL scheme](#). For example, you can set a background image in the following way: `css background: url('data:image/png;base64,iVBORw...');` Where `iVBORw...` is a base64-encoded PNG image.

Style with ANSI escape sequences

You can use the [ANSI escape sequences](#) to style console messages.

It is common for [Node.js](#) developers to colorize log messages via ANSI escape sequences, often with the help of some styling libraries like [chalk](#), [colors](#), [ansi-colors](#), [kleur](#).

Nevertheless, you can style the message with ANSI escape sequences without using any libraries. Here is the syntax:

```
\x1B[P1;...Pnm
```

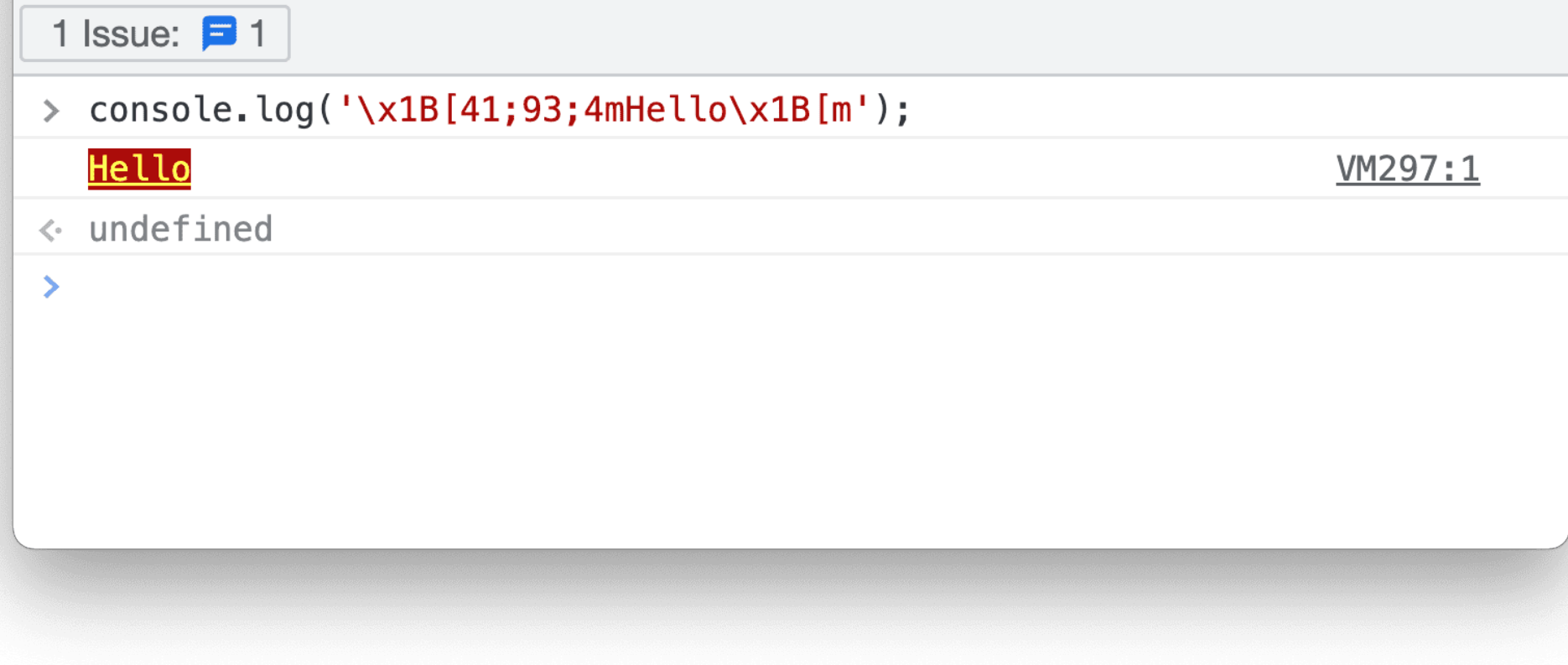
Where,

- `P1` to `Pn` are valid subsequences of [SGR \(Select Graphic Rendition\)](#) parameters.
- Any of the parameters `P1` to `Pn` can be omitted, in which case its value is assumed to be zero.

- `\x1B[m` is the shorthand for `\x1B[0m`, in which the display attribute will be reset.

For example,

- Enter the following console command. `js console.log('\x1B[41;93;4mHello\x1B[m');`
- The command above produces a `Hello` message with red background, yellow text and underlined.



Here is a list of color codes supported in DevTools.

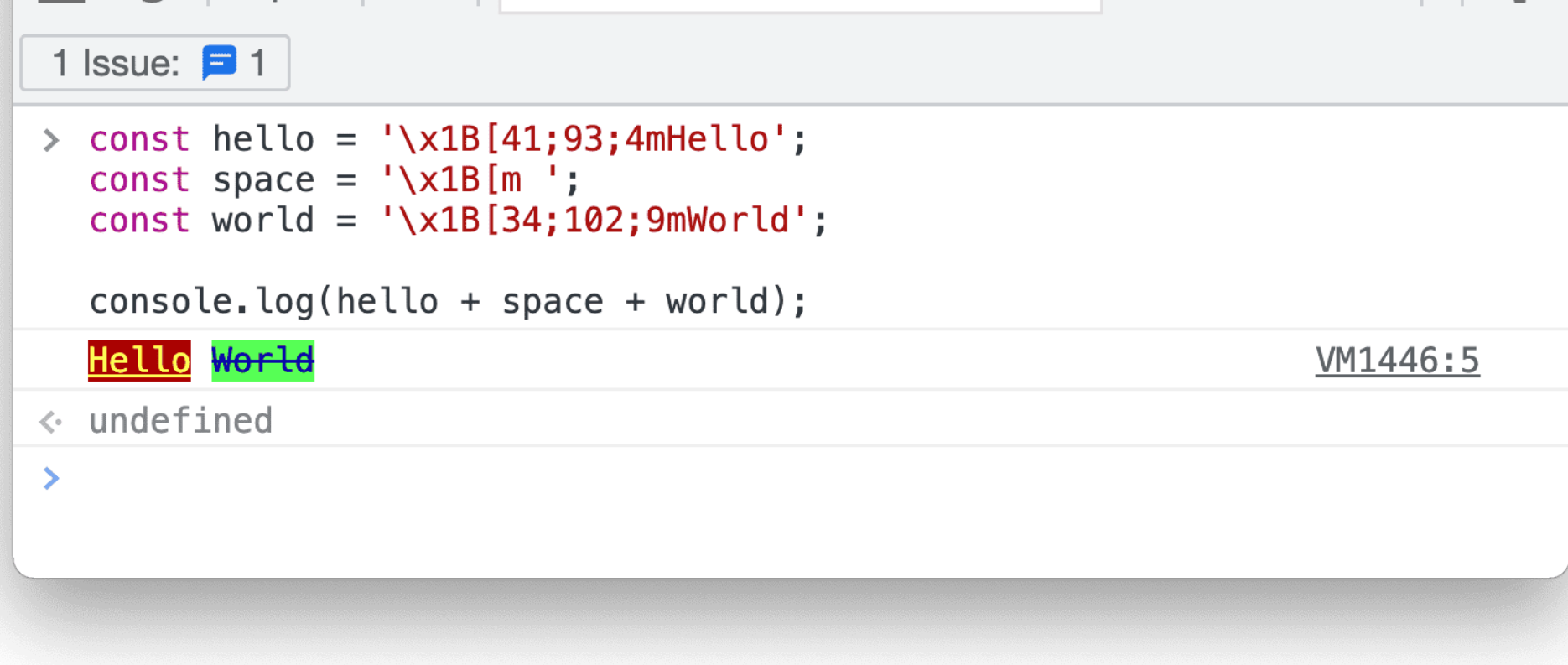
Foreground	Background	Light theme	Dark theme
30	40	#000000	#000000
31	41	#A00000	#ed4e4c
32	42	#00AA00	#01c800
33	43	#AA5000	#d2c057
34	44	#0000AA	#2774f0
35	45	#AA00AA	#a142f4
36	46	#00AAAA	#12b5cb
37	47	#AAAAAA	#cfd0d0
90	100	#555555	#898989
91	101	#FF5555	#f28b82
92	102	#55FF55	#91c801
93	103	#FFFF55	#ddf555
94	104	#5555FF	#699df6
95	105	#FF55FF	#d670d6
96	106	#55FFFF	#84f0ff
97	107	#FFFFFF	#FFFFFF

Here is a list of styling code supported in DevTools.

Parameter(s)	Meaning
0	Reset all display attributes
1	font-weight: bold
2	font-weight: lighter
3	font-style: italic
4	Add underline to text-decoration property
9	Add line-through to text-decoration property
22	Reset font-weight property
23	Reset font-style property
24	Remove underline from text-decoration property
29	Remove line-through from text-decoration property
38;2;R;G;B	color: rgb(R,G,B)
39	Reset color property
48;2;R;G;B	background: rgb(R,G,B)
49	Reset background property
53	Add overline to text-decoration property
55	Remove overline from text-decoration property

Here is another more complex example with multiple stylings.

- Enter the following console command. `''js const hello = '\x1B[41;93;4mHello'; const space = '\x1B[m'; const world = '\x1B[34;102;9mWorld'; console.log(hello + space + world);`
- The command above produces a `Hello World` message with 3 differnt styles.



Was this helpful?