

# Demo-Utills GUI Output

Demo-Utills (3203)

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### Header Level 1

Header Level 2

Header Level 3

### Demo Bullets

- bullet1()
- bullet2()
- bullet3()
- square1()
- square2()
- square3()

### Demo Text Emphasis

b(.): **This is bold**

i(.): *This is italic*

bi(.): ***This is bold & italic***

List x: [one, two, three, four]

bList(x): [**one**, **two**, **three**, **four**]

Map y: [a:apple, b:banana, c:cantelope]

bMap(y): [**a: apple**, **b: banana**, **c: cantelope**]

### Demo mapToTable()

With Borders - mapToTable(y, true)

a	apple
b	banana
c	cantelope

Without Borders - mapToTable(y, false)

a: apple

b: banana

c: cantelope

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### Demo safeParseInt()

```
safeParseInt(): null
safeParseInt(""): null
safeParseInt('0'): 0
safeParseInt('-51'): -51
safeParseInt('22'): 22
```

### Demo cleanStrings()

```
cleanStrings([null, a, a, b, c, null, a]) -> [a, b, c]
cleanStrings([null, a, d, b, c, null, a]) -> [a, d, b, c]
cleanStrings([null, a, c, null, d, b, a]) -> [a, c, d, b]
```

### Demo modeNames()

modeNames() -> [Day, Supplement, Chill, TV, Party, Night, Cleaning]

### Demo Color Bars

blackBar()



greenBar()



redBar()



### Demo Alert

**This is a sample alert!**

### Demo Individually-Bordered Table Cell

one	two	three
four	five	six
seven	eight	nine

# Demo-Utils GUI Output (continued)

## Demo-Utils (3203)

### Color Hued() Colors Table

Index	FG	BG	Sample
-39	#FF8000	#FFFFFF	Sample 123
-38	#FF1493	#FFFFFF	Sample 123
-37	#FF00FF	#FFFFFF	Sample 123
-36	#FF0000	#FFFFFF	Sample 123
-35	#DB7093	#FFFFFF	Sample 123
-34	#DAA520	#FFFFFF	Sample 123
-33	#DA70D6	#FFFFFF	Sample 123
-32	#D2691E	#FFFFFF	Sample 123
-31	#CF8500	#FFFFFF	Sample 123
-30	#CD5C5C	#FFFFFF	Sample 123
-29	#C71585	#FFFFFF	Sample 123
-28	#B8560B	#FFFFFF	Sample 123
-27	#9400D3	#FFFFFF	Sample 123
-26	#9370DB	#FFFFFF	Sample 123
-25	#8B4513	#FFFFFF	Sample 123
-24	#8B008B	#FFFFFF	Sample 123
-23	#808000	#FFFFFF	Sample 123
-22	#800000	#FFFFFF	Sample 123
-21	#7B68EE	#FFFFFF	Sample 123
-20	#708090	#FFFFFF	Sample 123
-19	#6B8E23	#FFFFFF	Sample 123
-18	#696969	#FFFFFF	Sample 123
-17	#6495ED	#FFFFFF	Sample 123
-16	#4B0082	#FFFFFF	Sample 123
-15	#4682B4	#FFFFFF	Sample 123
-14	#4169E1	#FFFFFF	Sample 123
-13	#32CD32	#FFFFFF	Sample 123
-12	#228B22	#FFFFFF	Sample 123
-11	#20B2AA	#FFFFFF	Sample 123
-10	#1E90FF	#FFFFFF	Sample 123
-9	#00CED1	#FFFFFF	Sample 123
-8	#00BFFF	#FFFFFF	Sample 123
-7	#008080	#FFFFFF	Sample 123
-6	#0000FF	#FFFFFF	Sample 123
-5	#FFFFFF	#C05000	Sample 123
-4	#FFEA00	#C05000	Sample 123
-3	#10DEE1	#C05000	Sample 123

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-2	#00FF00	#C05000	Sample 123
-1	#FFFFFF	#9400D3	Sample 123
0	#FFEA00	#9400D3	Sample 123
1	#FFA000	#9400D3	Sample 123
2	#10DEE1	#9400D3	Sample 123
3	#00FF00	#9400D3	Sample 123
4	#FFFFFF	#808000	Sample 123
5	#FFEA00	#808000	Sample 123
6	#FFA000	#808000	Sample 123
7	#10DEE1	#808000	Sample 123
8	#00FF00	#808000	Sample 123
9	#FFFFFF	#800000	Sample 123
10	#FFEA00	#800000	Sample 123
11	#FFA000	#800000	Sample 123
12	#FF8888	#800000	Sample 123
13	#10DEE1	#800000	Sample 123
14	#00FF00	#800000	Sample 123
15	#FFFFFF	#4B0082	Sample 123
16	#FFEA00	#4B0082	Sample 123
17	#FFA000	#4B0082	Sample 123
18	#FF8888	#4B0082	Sample 123
19	#FF34B3	#4B0082	Sample 123
20	#10DEE1	#4B0082	Sample 123
21	#00FF00	#4B0082	Sample 123
22	#FFFFFF	#008080	Sample 123
23	#FFEA00	#008080	Sample 123
24	#FFA000	#008080	Sample 123
25	#FE6F4F	#008080	Sample 123
26	#10DEE1	#008080	Sample 123
27	#00FF00	#008080	Sample 123
28	#FFFFFF	#0000FF	Sample 123
29	#FFEA00	#0000FF	Sample 123
30	#FF8888	#0000FF	Sample 123
31	#10DEE1	#0000FF	Sample 123
32	#00FF00	#0000FF	Sample 123
33	#FFFFFF	#000000	Sample 123
34	#FFEA00	#000000	Sample 123
35	#FFA000	#000000	Sample 123
36	#FF8888	#000000	Sample 123
37	#FF34B3	#000000	Sample 123

## Demo-Utils GUI Output (continued)

### Demo-Utils (3203)

38	#10DEE1	#000000	Sample 123
39	#00FF00	#000000	Sample 123

## Exercise Hued Cache

### CREATING SAMPLE ENTRIES IN HUED\_CACHE:

```
hued('Apple', 15) -> Apple
hued('Banana', 1015) -> Banana
hued('Carrot', 2015) -> Carrot
hued('Donut', 3015) -> Donut
hued('Egg', 4015) -> Egg
hued('FrenchFries', 5015) -> FrenchFries
hued('Guava', 6015) -> Guava
hued('HotDog', 7015) -> HotDog
```

### HUED\_CACHE CONTENTS:

```
-- begin --
```

```
Donut_3015 -> Donut, stripHued(..): 'Donut'
Egg_4015 -> Egg, stripHued(..): 'Egg'
Banana_1015 -> Banana, stripHued(..): 'Banana'
Carrot_2015 -> Carrot, stripHued(..): 'Carrot'
HotDog_7015 -> HotDog, stripHued(..): 'HotDog'
FrenchFries_5015 -> FrenchFries, stripHued(..): 'FrenchFries'
Apple_15 -> Apple, stripHued(..): 'Apple'
Guava_6015 -> Guava, stripHued(..): 'Guava'
```

```
-- end --
```

### REMOVING SAMPLE ENTRIES FROM HUED\_CACHE




```
Removing key: Donut_3015
Removing key: Egg_4015
Removing key: Banana_1015
Removing key: Carrot_2015
Removing key: HotDog_7015
Removing key: FrenchFries_5015
Removing key: Apple_15
Removing key: Guava_6015
```

### HUED\_CACHE CONTENTS:

```
-- begin --
```

```
-- end --
```

# Demo-Utills GUI & Log Output

 Demo-Utills (3203)  

## Tests that Run When "Done" is clicked ...

- The log functions in this library:
- Can reduce log data sent to Hubitat.
- The method "setLogLevel()" adjusts what is sent.
- **setLogLevel("TRACE")** sends everything.
- **setLogLevel("DEBUG")** suppresses TRACE.
- **setLogLevel("INFO")** suppresses TRACE & DEBUG.
- **setLogLevel("WARN")** suppresses TRACE, DEBUG & INFO.
- **setLogLevel("ERROR")** suppresses TRACE, DEBUG, INFO & WARN.
- ERROR is never suppressed.


**demoLogLevels()** is called MULTIPLE TIMES to issue:

- A sample **logTrace()** call
- A sample **logDebug()** call
- A sample **logInfo()** call
- A sample **logWarn()** call
- A Sample **logError()** call

Each time **demoLogLevels()** is called, the log level is reduced.

- In loop #1 all five samples are sent.
- In loop #2 **logTrace()** is suppressed.
- In loop #3 **logDebug()** is also suppressed
- In loop #4 **logInfo()** is also suppressed
- In loop #5 **logWarn()** is also suppressed

Remove

 Done

Demo-Utills (3203)

app:3203	2024-07-18 09:43:50.789 AM	error	Demo-Utills (3203).demoLogLevels() → logError(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.785 AM	info	Calling demoLogLevels() with setLogLevel(ERROR):
app:3203	2024-07-18 09:43:50.781 AM	error	Demo-Utills (3203).demoLogLevels() → logError(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.778 AM	warn	Demo-Utills (3203).demoLogLevels() → logWarn(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.774 AM	info	Calling demoLogLevels() with setLogLevel(WARN):
app:3203	2024-07-18 09:43:50.770 AM	error	Demo-Utills (3203).demoLogLevels() → logError(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.767 AM	warn	Demo-Utills (3203).demoLogLevels() → logWarn(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.763 AM	info	Demo-Utills (3203).demoLogLevels() → logInfo(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.759 AM	info	Calling demoLogLevels() with setLogLevel(INFO):
app:3203	2024-07-18 09:43:50.755 AM	error	Demo-Utills (3203).demoLogLevels() → logError(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.752 AM	warn	Demo-Utills (3203).demoLogLevels() → logWarn(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.748 AM	info	Demo-Utills (3203).demoLogLevels() → logInfo(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.744 AM	debug	Demo-Utills (3203).demoLogLevels() → logDebug(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.740 AM	info	Calling demoLogLevels() with setLogLevel(DEBUG):
app:3203	2024-07-18 09:43:50.737 AM	error	Demo-Utills (3203).demoLogLevels() → logError(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.733 AM	warn	Demo-Utills (3203).demoLogLevels() → logWarn(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.729 AM	info	Demo-Utills (3203).demoLogLevels() → logInfo(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.725 AM	debug	Demo-Utills (3203).demoLogLevels() → logDebug(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.722 AM	trace	Demo-Utills (3203).demoLogLevels() → logTrace(..) test only [user_app_WesMC_Demo_Utills_483]
app:3203	2024-07-18 09:43:50.702 AM	info	Calling demoLogLevels() with setLogLevel(TRACE):

# Demo-Utils Colorized Log Output

App & Device Instances  
are assigned 1 of 79 colors

app:3095 2024-07-12 04:34:53.940 PM info Demo-PBSG.handle\_pushed() → weekdays: pushed: 4, [tue (2) → thu (4)], ref: Ref: Demo-PBSG weekdays action 17 of 17  
pushed = 4

app:3095 2024-07-12 04:34:53.841 PM info Demo-PBSG.handle\_jsonPbsg() → weekdays: Ref: Demo-PBSG weekdays action 17 of 17  
thu (on) ← tue (off) mon (off) fri (off) wed (off) LIFO  
[instType: pbsg, lifo: [wed, fri, mon, tue], dflt: thu, buttonsList: [mon, tue, wed, thu, fri], active: thu, version: 2024-07-12T20:34:47.772280Z]

app:3095 2024-07-12 04:34:53.810 PM info Demo-PBSG.handle\_active() → weekdays: active: thu, [tue (2) → thu (4)], ref: Ref: Demo-PBSG weekdays action 17 of 17

dev:10934 2024-07-12 04:34:53.614 PM info weekdays\_thu.switch() → Turned on, Demo-PBSG weekdays action 17 of 17

app:3095 2024-07-12 04:34:53.598 PM info Demo-PBSG.handle\_pushed() → weekdays: pushed: 2, [mon (1) → tue (2)], ref: Ref: Demo-PBSG weekdays action 16 of 17  
pushed = 2

dev:10932 2024-07-12 04:34:53.576 PM info weekdays\_tue.switch() → Turned off, Demo-PBSG weekdays action 17 of 17

app:3095 2024-07-12 04:34:53.518 PM info Demo-PBSG.handle\_jsonPbsg() → weekdays: Ref: Demo-PBSG weekdays action 16 of 17  
tue (on) ← mon (off) thu (off) fri (off) wed (off) LIFO  
[instType: pbsg, lifo: [wed, fri, thu, mon], dflt: thu, buttonsList: [mon, tue, wed, thu, fri], active: tue, version: 2024-07-12T20:34:47.772280Z]

dev:10930 2024-07-12 04:34:53.511 PM info weekdays.pbsg\_SaveState() → Demo-PBSG weekdays action 17 of 17

CHANGED KEYS	PBSG	STATE
active	thu	tue
lifo	[wed, fri, mon, tue]	[wed, fri, thu, mon]

Log messages show the App or  
Device sender and can be cited  
in log messages posted by other  
Apps and Devices.