

dwm Status Bar

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Chapter 1

Overview

`dwmbar` is a status bar for `dwm` similar to `dwmblocks`. I wrote it in C++ just to troll the `suckless` people. It has some built-in modules, but can also be extended with external scripts.

Each module can be set to update after a separate interval. Modules run as separate threads and alert the main thread to print to the root window when a change occurs. You can also run a module by issuing a real-time signal with `pkill`, e.g.

```
pkill --signal RTMIN+1 -x dwmbar
```

The signal ID is set per module during configuration (see below). Modules that are running on a schedule can still be activated by a signal.

`dwm` supports two status bars (bottom and top) if you have the `dwm-extrabar` patch.

1.1 Install

To install clone this repository and use `make`:

```
cd dwmBar  
make  
sudo make install
```

This will put the `dwmbar` binary in `/usr/local/bin/` and assumes `gcc` is the compiler on the system. If you have `llvm` instead, use

```
make CXX=c++
```

1.2 Dependencies

The project depends on a C++ compiler that understands C++11. It also requires `libX11` for printing to the root window. Some included modules also require `procfs` to be mounted. This is available by default in most linux distributions, but may need to be explicitly mounted in BSD.

1.3 Configure

`dwmbar` is configured by editing the [config.hpp](#) file. Comments within the file explain what to do and the available options. If you want to customize further, full interface documentation is [here](#), or you can run `doxygen` in the source code directory. The example configuration included here is the one I use on my main machine. The external shell scripts I use are included in the `scripts` directory.

Here is a screenshot from my system:

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

DWMBspace::Module	9
DWMBspace::ModuleBattery	13
DWMBspace::ModuleCPU	15
DWMBspace::ModuleDate	17
DWMBspace::ModuleDisk	20
DWMBspace::ModuleExtern	23
DWMBspace::ModuleRAM	25

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

DWMBspace::Module	Base module class	9
DWMBspace::ModuleBattery	Battery state	13
DWMBspace::ModuleCPU	CPU status	15
DWMBspace::ModuleDate	Time and date	17
DWMBspace::ModuleDisk	Disk free space	20
DWMBspace::ModuleExtern	External scripts	23
DWMBspace::ModuleRAM	Free memory	25

Chapter 4

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

config.hpp	??
dwmbar.cpp	
A bar for dwm	29
modules.cpp	
C++ modules for the status bar (implementation)	31
modules.hpp	
C++ modules for the status bar (definitions)	32

Chapter 5

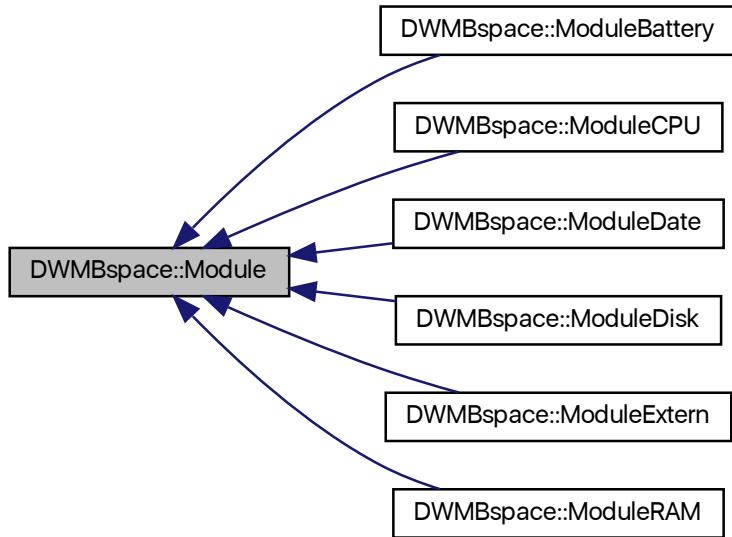
Class Documentation

5.1 DWMBspace::Module Class Reference

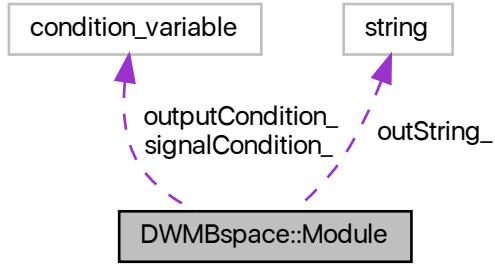
Base module class.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::Module:



Collaboration diagram for DWMBspace::Module:



Public Member Functions

- virtual ~[Module](#) ()
Destructor.
- void [operator\(\)](#) () const

Protected Member Functions

- [Module](#) ()
- [Module](#) (const uint32_t &interval, string *output, condition_variable *cVar, condition_variable *sigVar)
- virtual void [runModule_](#) () const =0
Run the module once.

Protected Attributes

- uint32_t [refreshInterval_](#)
- string * [outString_](#)
- condition_variable * [outputCondition_](#)
Pointer to a condition variable to signal change in state.
- condition_variable * [signalCondition_](#)
Pointer to a condition variable to accept signal events.

5.1.1 Detailed Description

Base module class.

Establishes the common parameters for all modules. Modules are functors that write output to a `string` variable.

5.1.2 Constructor & Destructor Documentation

5.1.2.1 Module() [1/2]

```
DWMBspace::Module::Module ( ) [inline], [protected]
```

Default constructor

5.1.2.2 Module() [2/2]

```
DWMBspace::Module::Module (
    const uint32_t & interval,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline], [protected]
```

Constructor

Parameters

in	<i>interval</i>	refresh time interval in seconds
in,out	<i>output</i>	pointer to the output storing string
in,out	<i>cVar</i>	pointer to the condition variable for change signaling
in,out	<i>sigVar</i>	pointer to the condition variable to monitor real-time signals

5.1.3 Member Function Documentation

5.1.3.1 operator()()

```
void Module::operator() ( ) const
```

Run the module

Runs the module, refreshing at the specified interval or after receiving a refresh signal.

5.1.3.2 runModule_()

```
virtual void DWMBspace::Module::runModule_ ( ) const [protected], [pure virtual]
```

Run the module once.

Retrieves the data specific to the module and formats the output.

Implemented in [DWMBspace::ModuleExtern](#), [DWMBspace::ModuleDisk](#), [DWMBspace::ModuleRAM](#), [DWMBspace::ModuleCPU](#), [DWMBspace::ModuleBattery](#), and [DWMBspace::ModuleDate](#).

5.1.4 Member Data Documentation

5.1.4.1 **outputCondition_**

```
condition_variable* DWMBspace::Module::outputCondition_ [protected]
```

Pointer to a condition variable to signal change in state.

The module is using this to communicate to the main thread.

5.1.4.2 **outString_**

```
string* DWMBspace::Module::outString_ [protected]
```

Pointer to the string that receives output

5.1.4.3 **refreshInterval_**

```
uint32_t DWMBspace::Module::refreshInterval_ [protected]
```

Refresh interval in seconds

5.1.4.4 **signalCondition_**

```
condition_variable* DWMBspace::Module::signalCondition_ [protected]
```

Pointer to a condition variable to accept signal events.

The module is waiting for this if it relies on a real-time signal to refresh.

The documentation for this class was generated from the following files:

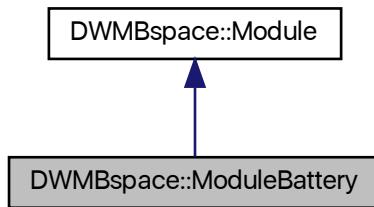
- [modules.hpp](#)
- [modules.cpp](#)

5.2 DWMBspace::ModuleBattery Class Reference

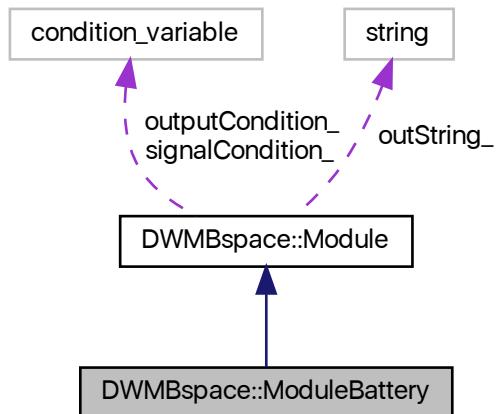
Battery state.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::ModuleBattery:



Collaboration diagram for DWMBspace::ModuleBattery:



Public Member Functions

- [ModuleBattery \(\)](#)
Default constructor.
- [ModuleBattery \(const uint32_t &interval, string *output, condition_variable *cVar, condition_variable *sigVar\)](#)
- [~ModuleBattery \(\)](#)
Destructor.

Protected Member Functions

- void `runModule_()` const override

Run the module once.

Additional Inherited Members

5.2.1 Detailed Description

Battery state.

Displays the battery state.

5.2.2 Constructor & Destructor Documentation

5.2.2.1 ModuleBattery()

```
DWMBspace::ModuleBattery::ModuleBattery (
    const uint32_t & interval,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline]
```

Constructor

Parameters

in	<code>interval</code>	refresh time interval in seconds
in,out	<code>output</code>	pointer to the output storing string
in,out	<code>cVar</code>	pointer to the condition variable for change signaling
in,out	<code>sigVar</code>	pointer to the condition variable to monitor real-time signals

5.2.3 Member Function Documentation

5.2.3.1 runModule_()

```
void ModuleBattery::runModule_() const [override], [protected], [virtual]
```

Run the module once.

Retrieves the data specific to the module and formats the output.

Implements [DWMBspace::Module](#).

The documentation for this class was generated from the following files:

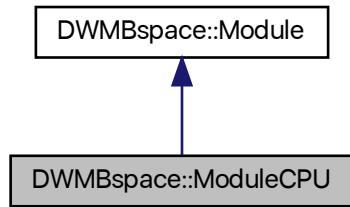
- [modules.hpp](#)
- [modules.cpp](#)

5.3 DWMBspace::ModuleCPU Class Reference

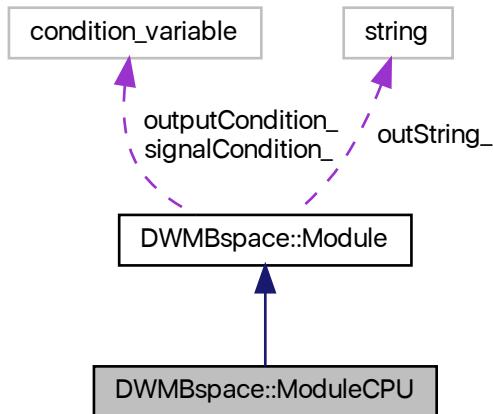
CPU status.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::ModuleCPU:



Collaboration diagram for DWMBspace::ModuleCPU:



Public Member Functions

- [ModuleCPU \(\)](#)
Default constructor.
- [ModuleCPU \(const uint32_t &interval, string *output, condition_variable *cVar, condition_variable *sigVar\)](#)
- [~ModuleCPU \(\)](#)
Destructor.

Protected Member Functions

- void [runModule_ \(\) const override](#)
Run the module once.

Protected Attributes

- float [previousTotalLoad_](#)
Previous total CPU time.
- float [previousIdleLoad_](#)
Previous idle CPU time.

5.3.1 Detailed Description

CPU status.

Displays CPU temperature and load.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 ModuleCPU()

```
DWMBspace::ModuleCPU::ModuleCPU (
    const uint32_t & interval,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline]
```

Constructor

Parameters

in	<i>interval</i>	refresh time interval in seconds
in, out	<i>output</i>	pointer to the output storing string
in, out	<i>cVar</i>	pointer to the condition variable for change signaling
in, out	<i>sigVar</i>	pointer to the condition variable to monitor real-time signals

5.3.3 Member Function Documentation

5.3.3.1 runModule_()

```
void ModuleCPU::runModule_ ( ) const [override], [protected], [virtual]
```

Run the module once.

Retrieves the data specific to the module and formats the output.

Implements [DWMBspace::Module](#).

The documentation for this class was generated from the following files:

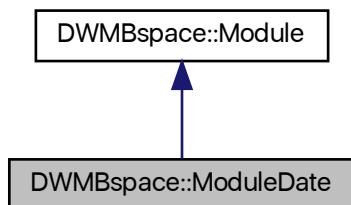
- [modules.hpp](#)
- [modules.cpp](#)

5.4 DWMBspace::ModuleDate Class Reference

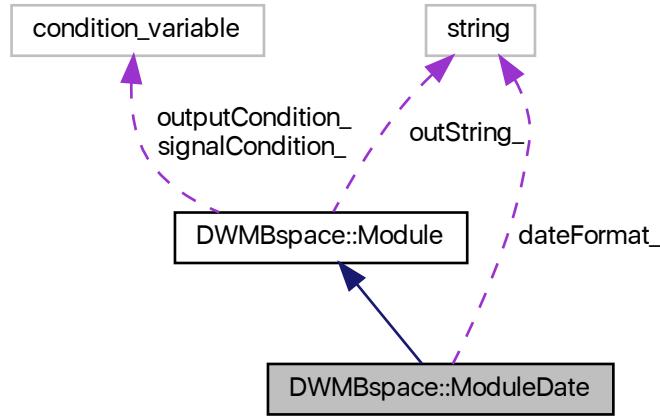
Time and date.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::ModuleDate:



Collaboration diagram for DWMBspace::ModuleDate:



Public Member Functions

- `ModuleDate ()`
- `ModuleDate (const uint32_t &interval, const string &dateFormat, string *output, condition_variable *cVar, condition_variable *sigVar)`
- `~ModuleDate ()`
Destructor.

Protected Member Functions

- `void runModule_ () const override`
Run the module once.

Protected Attributes

- `string dateFormat_`
Time format string.

5.4.1 Detailed Description

Time and date.

5.4.2 Constructor & Destructor Documentation

5.4.2.1 ModuleDate() [1/2]

```
DWMBspace::ModuleDate::ModuleDate ( ) [inline]
```

Default constructor

5.4.2.2 ModuleDate() [2/2]

```
DWMBspace::ModuleDate::ModuleDate (
    const uint32_t & interval,
    const string & dateFormat,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline]
```

Constructor

Parameters

in	<i>interval</i>	refresh time interval in seconds
in,out	<i>output</i>	pointer to the output storing string
in,out	<i>cVar</i>	pointer to the condition variable for change signaling
in,out	<i>sigVar</i>	pointer to the condition variable to monitor real-time signals

5.4.3 Member Function Documentation

5.4.3.1 runModule_()

```
void ModuleDate::runModule_ ( ) const [override], [protected], [virtual]
```

Run the module once.

Retrieves the data specific to the module and formats the output.

Implements [DWMBspace::Module](#).

5.4.4 Member Data Documentation

5.4.4.1 dateFormat_

```
string DWMBspace::ModuleDate::dateFormat_ [protected]
```

Time format string.

Date display format, same as for the Unix `date` command.

The documentation for this class was generated from the following files:

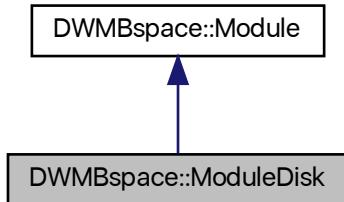
- [modules.hpp](#)
- [modules.cpp](#)

5.5 DWMBspace::ModuleDisk Class Reference

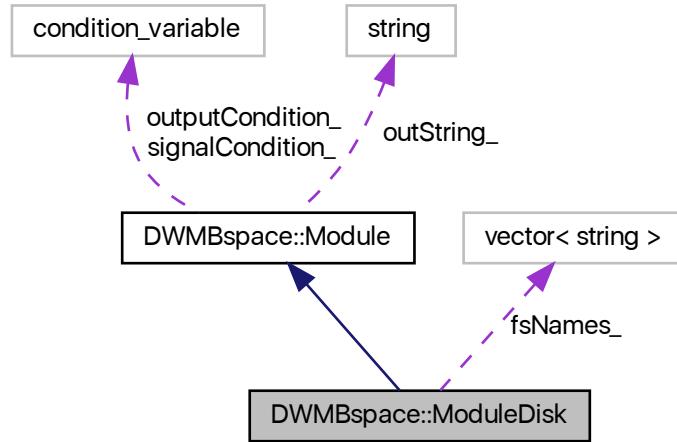
Disk free space.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::ModuleDisk:



Collaboration diagram for DWMBspace::ModuleDisk:



Public Member Functions

- [ModuleDisk \(\)](#)
Default constructor.
- [ModuleDisk \(const uint32_t &interval, const vector< string > &fsVector, string *output, condition_variable *cVar, condition_variable *sigVar\)](#)
- [~ModuleDisk \(\)](#)
Destructor.

Protected Member Functions

- void [runModule_ \(\) const override](#)
Run the module once.

Protected Attributes

- vector< string > [fsNames_](#)
File system names.

5.5.1 Detailed Description

Disk free space.

Lists free space in a list of file systems in Gb and RAID status if available.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 ModuleDisk()

```
DWMBspace::ModuleDisk::ModuleDisk (
    const uint32_t & interval,
    const vector< string > & fsVector,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline]
```

Constructor

Parameters

in	<i>interval</i>	refresh time interval in seconds
in	<i>fsVector</i>	vector of file system names
in,out	<i>output</i>	pointer to the output storing string
in,out	<i>cVar</i>	pointer to the condition variable for change signaling
in,out	<i>sigVar</i>	pointer to the condition variable to monitor real-time signals

5.5.3 Member Function Documentation

5.5.3.1 runModule_()

```
void ModuleDisk::runModule_ () const [override], [protected], [virtual]
```

Run the module once.

Retrieves the data specific to the module and formats the output.

Implements [DWMBspace::Module](#).

The documentation for this class was generated from the following files:

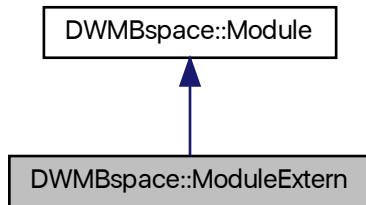
- [modules.hpp](#)
- [modules.cpp](#)

5.6 DWMBspace::ModuleExtern Class Reference

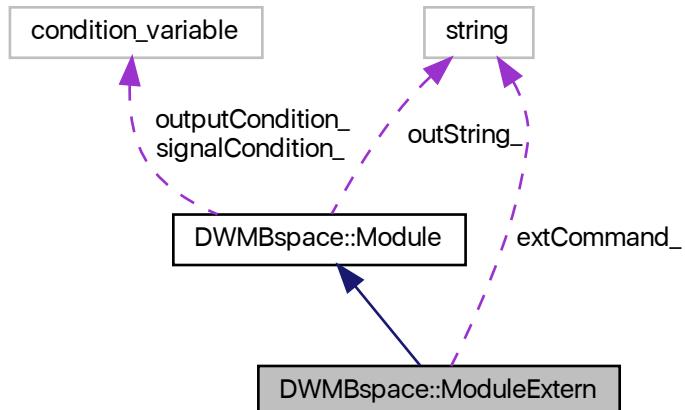
External scripts.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::ModuleExtern:



Collaboration diagram for DWMBspace::ModuleExtern:



Public Member Functions

- [ModuleExtern \(\)](#)
Default constructor.
- [ModuleExtern \(const uint32_t &interval, const string &command, string *output, condition_variable *cVar, condition_variable *sigVar\)](#)
- [~ModuleExtern \(\)](#)
Destructor.

Protected Member Functions

- void `runModule_()` const override

Run the module once.

Protected Attributes

- const string `extCommand_`

External command string.

Static Protected Attributes

- static const size_t `lengthLimit_` = 500

Output length limit.

5.6.1 Detailed Description

External scripts.

Runs an external script or shell command and displays the output. No formatting of the external output is performed, but it is truncated to 500 characters.

5.6.2 Constructor & Destructor Documentation

5.6.2.1 ModuleExtern()

```
DWMBSpace::ModuleExtern::ModuleExtern (
    const uint32_t & interval,
    const string & command,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline]
```

Constructor

Parameters

<code>in</code>	<code>interval</code>	refresh time interval in seconds
<code>in</code>	<code>command</code>	external command
<code>in, out</code>	<code>output</code>	pointer to the output storing string
<code>in, out</code>	<code>cVar</code>	pointer to the condition variable for change signaling
<code>in, out</code>	<code>sigVar</code>	pointer to the condition variable to monitor real-time signals

5.6.3 Member Function Documentation

5.6.3.1 runModule_()

```
void ModuleExtern::runModule_ ( ) const [override], [protected], [virtual]
```

Run the module once.

Runs the external shell command or script and returns the output, truncating to 500.

Implements [DWMBspace::Module](#).

The documentation for this class was generated from the following files:

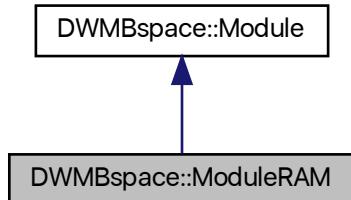
- [modules.hpp](#)
- [modules.cpp](#)

5.7 DWMBspace::ModuleRAM Class Reference

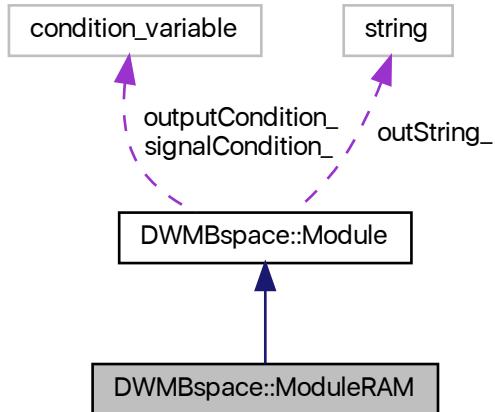
Free memory.

```
#include <modules.hpp>
```

Inheritance diagram for DWMBspace::ModuleRAM:



Collaboration diagram for DWMBspace::ModuleRAM:



Public Member Functions

- [`ModuleRAM \(\)`](#)
Default constructor.
- [`ModuleRAM \(const uint32_t &interval, string *output, condition_variable *cVar, condition_variable *sigVar\)`](#)
- [`~ModuleRAM \(\)`](#)
Destructor.

Protected Member Functions

- `void runModule_ () const override`
Run the module once.

Additional Inherited Members

5.7.1 Detailed Description

Free memory.

Displays the amount of free RAM.

5.7.2 Constructor & Destructor Documentation

5.7.2.1 ModuleRAM()

```
DWMBspace::ModuleRAM::ModuleRAM (
    const uint32_t & interval,
    string * output,
    condition_variable * cVar,
    condition_variable * sigVar ) [inline]
```

Constructor

Parameters

in	<i>interval</i>	refresh time interval in seconds
in,out	<i>output</i>	pointer to the output storing string
in,out	<i>cVar</i>	pointer to the condition variable for change signaling
in,out	<i>sigVar</i>	pointer to the condition variable to monitor real-time signals

5.7.3 Member Function Documentation

5.7.3.1 runModule_()

```
void ModuleRAM::runModule_ () const [override], [protected], [virtual]
```

Run the module once.

Retrieves the data specific to the module and formats the output.

Implements [DWMBspace::Module](#).

The documentation for this class was generated from the following files:

- [modules.hpp](#)
- [modules.cpp](#)

Chapter 6

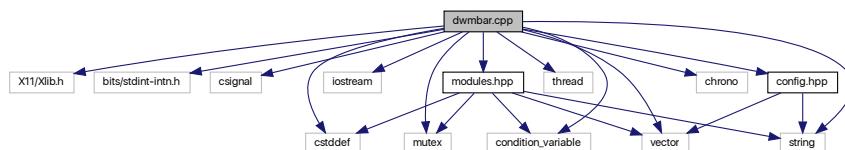
File Documentation

6.1 dwmbar.cpp File Reference

A bar for dwm.

```
#include <X11/Xlib.h>
#include <bits/stdcint-intn.h>
#include <csignal>
#include <cstddef>
#include <iostream>
#include <string>
#include <vector>
#include <thread>
#include <mutex>
#include <condition_variable>
#include <chrono>
#include "modules.hpp"
#include "config.hpp"
```

Include dependency graph for dwmbar.cpp:



Functions

- static vector< condition_variable > [signalCondition \(sigRTNUM\)](#)
Condition variables that will respond to real-time signals.
- void [makeBarOutput](#) (const vector< string > &moduleOutput, const string &delimiter, string &barText)

- *Make bar output.*
 - void **printRoot** (const string &barOutput)
- *Render the bar.*
 - void **processSignal** (int sig)
- *Process real-time signals.*
 - int **main** ()

Variables

- static const int **sigRTNUM** = 30
 - Number of possible real-time signals.*

6.1.1 Detailed Description

A bar for dwm.

Author

Anthony J. Greenberg

Copyright

Copyright (c) 2020 Anthony J. Greenberg

Version

0.9

Displays information on the bar for the Dynamic Window Manager (dwm). External scripts and some internal functions are supported. Can use two bars (bottom and top) if dwm is patched with dwm-extrabar.

6.1.2 Function Documentation

6.1.2.1 **makeBarOutput()**

```
void makeBarOutput (
    const vector< string > & moduleOutput,
    const string & delimiter,
    string & barText )
```

Make bar output.

Takes individual module outputs and puts them together for printing.

Parameters

in	<i>moduleOutput</i>	vector of individual module outputs
in	<i>delimiter</i>	delimiter character(s) between modules
out	<i>barText</i>	compiled text to be printed to the bar

6.1.2.2 printRoot()

```
void printRoot (
    const string & barOutput )
```

Render the bar.

Renders the bar text by printing the provided string to the root window. This is how dwm handles status bars.

Parameters

in	<i>barOutput</i>	text to be displayed
----	------------------	----------------------

6.1.2.3 processSignal()

```
void processSignal (
    int sig )
```

Process real-time signals.

Receive and process real-time signals to trigger relevant modules.

Parameters

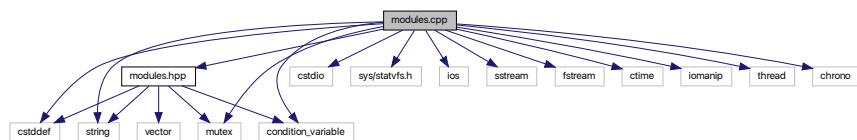
in	<i>sig</i>	signal number (starting at SIGRTMIN)
----	------------	--------------------------------------

6.2 modules.cpp File Reference

C++ modules for the status bar (implementation)

```
#include <cstddef>
#include <cstdio>
#include <sys/statvfs.h>
```

```
#include <iostream>
#include <string>
#include <sstream>
#include <fstream>
#include <ctime>
#include <iomanip>
#include <thread>
#include <mutex>
#include <condition_variable>
#include <chrono>
#include "modules.hpp"
Include dependency graph for modules.cpp:
```



6.2.1 Detailed Description

C++ modules for the status bar (implementation)

Author

Anthony J. Greenberg

Copyright

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Version

0.9

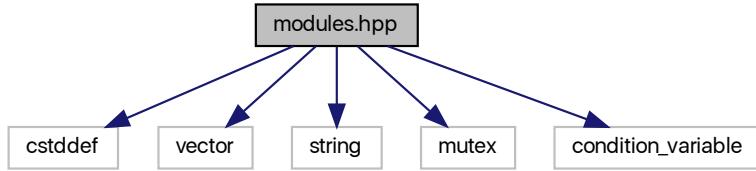
Implementation of classes that provide output useful for display in the status bar.

6.3 modules.hpp File Reference

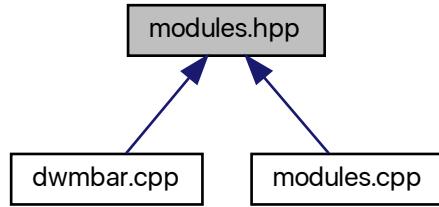
C++ modules for the status bar (definitions)

```
#include <cstddef>
#include <vector>
#include <string>
```

```
#include <mutex>
#include <condition_variable>
Include dependency graph for modules.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

- class [DWMBspace::Module](#)
Base module class.
- class [DWMBspace::ModuleDate](#)
Time and date.
- class [DWMBspace::ModuleBattery](#)
Battery state.
- class [DWMBspace::ModuleCPU](#)
CPU status.
- class [DWMBspace::ModuleRAM](#)
Free memory.
- class [DWMBspace::ModuleDisk](#)
Disk free space.
- class [DWMBspace::ModuleExtern](#)
External scripts.

6.3.1 Detailed Description

C++ modules for the status bar (definitions)

Author

Anthony J. Greenberg

Copyright

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Version

0.9

Definitions of classes that provide output useful for display in the status bar.

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