

Mastermind

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Chapter 1

Main Page

Open Source MasterMind implementation for School homework.

Install

Look on [INSTALL.md](#) file.

Unstable builds are available but may be not up to date and unusable.

- [windows x86 \(VS build\)](#)
- [windows x86 \(MinGW build\)](#)
- [64_68 DEB](#)
- [64_68 RPM](#)
- [64_86 linux \(TGZ\)](#)
- [64_68 Mac OS X Bundle](#)
- [Android apk](#)
- [Web version](#)

Configuration

Runtime Configuration options are documented on [config.md](#) file and `man mastermindcli(1)`.

Documentation

We provide booth type of documentation:

- Code documentation: [HTML](#), [PDF](#)
- Project Manual: [HTML](#), [PDF](#), [TXT](#)

License

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Chapter 2

Designs

Design alternative 1:

1	+---+---+---+---+					+---+---+				
2							*	*		
3		1		2		0		1		
4							.			
5	+---+---+---+---+					+---+---+				
6										
7										
8										
9	+---+---+---+---+					+---+---+				

Design alternative 2:

1	+---+---+---+---+					+---+---+---+---+				
2		1		2		0		1		+ 2 = 1 - 1
3	+---+---+---+---+					+---+---+---+---+				
4										
5	+---+---+---+---+					+---+---+---+---+				

Chapter 3

Install

First you need to clone the repo and init its submodules

```
1 git clone https://github.com/lejenome/mastermind.git
2 cd mastermind
3 git submodule update --init # ext/ submodule is need for android, windows builds
```

All the following commands assume your current working directory is a child of the source directory. (eg: build/ or build-linux/,...).

```
1 mkdir build
2 cd build
```

And assume that the building direcotry is clean and you didn't run cmake on it before or you need to clean it.

- [Linux](#)
- [OS X](#)
- [Windows](#)
- [Android](#)
- [iOS](#)
- [Emscripten](#)

LINUX

Dependencies: readline, GNU getopt, libncurses5-dev, sdl2, sdl2_ttf, cmake >= 3.0 To install on Ubuntu, you need ppa that provides a cmake 3.x vez:

```
1 apt-add-repository ppa:george-edison55/cmake-3.x
2 apt-get update
3 apt-get install cmake libreadline-dev libncurses5 libsdl2-2.0 libsdl2-ttf-dev
```

To install on ArchLinux:

```
1 pacman -S cmake sdl2 sdl2_ttf ncurses readline
```

Next, to build:

```
1 cmake ..
2 make
```

To build and run on same dir, you need to set install prefix to build dir until the build instructions are fixed.

```
1 cmake -DCMAKE_INSTALL_PREFIX=. ..
2 make
3 ./mastermindcli
4 ./mastermindsdl
```

OS X

Install readline, libncurses, sdl2, sdl2_ttf, cmake from brew

Next, to build:

```
1 cmake ..
2 cmake --build .
```

For packaging the build on bundle:

```
1 cpack
```

WINDOWS

Build is supported using mingw-w64 on all supported hosts (linux, windows,...) and using MS Visual Studio on windows. For build using mingw on windows:

```
1 cmake -G "MinGW Makefiles" ..
2 cmake --build .
```

For build using MS Visual Studio on windows:

```
1 cmake ..
2 cmake --build .
```

For packaging the mingw/MS visual studio build on NSIS installer:

```
1 cpack
```

on same linux platforms, cmake builds with mingw integration are provided. Here is a demo of a x86_64 mastermind build on ArchLinux using packages provided on AUR:

```
1 yaourt -S mingw-w64-sdl2 mingw-w64-sdl2_ttf mingw-w64-readline mingw-w64-pdcurses mingw-w64-cmake
   mingw-w64-libiconv
2 x86_64-w64-mingw32-cmake ..
3 make
```

ANDROID

First install Android NDK and SDK, and install Ant.

Download SDL2, SDL2_ttf and FreeType latest sources archives and extract them.

then run:

```
1 cmake ..
2 ln -s <PATH_TO_SDL2_SOURCE_DIR> jni/SDL
3 ln -s <PATH_TO_SDL2_ttf_SOURCE_DIR> jni/SDL_ttf
4 ln -s <PATH_TO_FreeType_SOURCE_DIR> jni/SDL_ttf/freetype
5 ndk-build
6 # you may need to update project target
7 # e.g: android update project -p . -t android-20
8 ant release
9 # gen key and sign apk ile with it, or use your own key
10 keytool -genkey -v -keystore my-release-key.keystore -alias alias_name -keyalg RSA -keysize 2048 -validity
   10000
11 jarsigner -verbose -sigalg SHA1withRSA -digestalg SHA1 -keystore my-release-key.keystore
   bin/MasterMind-release-unaligned.apk alias_name
12 # or just use android debug key at $HOME/.android/debug.keystore with alias androiddebugkey and password
   android
13 zipalign -v -f 4 bin/MasterMind-release-unaligned.apk bin/MasterMind.apk
```


the final apk file is bin/MasterMind.apk

NOTE: There is a known issue on SDL2 code caused by the bad GLES 2.0 support. A temporarily solution until it get fixed on SDL2 code, is to disable GLES 2.0 support, you need to modify `jni/SDL/include/SDL_config_android.h` so `SDL_VIDEO_OPENGL_ES2` is set to 0 :

```
#define SDL_VIDEO_OPENGL_ES2 0
```

You may need to set `SDL_VIDEO_RENDER_OGL_ES2` to 0 too :

```
#define SDL_VIDEO_RENDER_OGL_ES2 0
```

then rebuild libs and apk starting from ndk-build instruction.

IOS

You need to run cmake to generate [config.h](#)

```
1 cmake ..
```

Building for iOS is currently supported only throw Xcode using the project file `ide/xcode-ios/MastermindSDL.xcodeproj`.

EMSCRIPTEN

You need to have emscripten SDK installed before continuing.

```
1 emconfigure cmake ..
2 emmake make
```

Runtime generated files are `mastermindsdl.js`, `mastermindsdl.html`, `mastermindsdl.data` and `favicon.png`.

Chapter 4

TODO

- ☒ intl using gettext
- ☒ configs
- ☒ saving session state
- ☒ cli interface
- ☒ command auto complete
- ☒ subcommand auto complete
- ☒ SDL backend
- ☒ MM_{GUESSES,COLORS,HOLES}_MAX support
- ☒ (do/don't) repeat colors on combination (remise / sans remise)
- ☒ saving scores, history
- ☒ account support
- ☒ cli options support
- ☒ color scheme support on sdl
- ☒ zsh & bash completion
- ☒ windows build/packaging
- ☒ Mac OS X build/packaging
- ☒ Android build/packaging
- ☒ Doxygen HTML and PDF docs
- ☒ mastermindcli man page
- ☐ cli colored output
- ☐ ncurses backend
- ☐ build for linux/Mac/Win/Android/iOS/...
- ☐ package it for ubuntu/archlinux/windows/android/tizen
- ☐ multiplayer support
- ☐ cli backend table design themes support
- ☐ compile to NaCL and emscript

Chapter 5

Configuration options

- **colors**: number of colors
 - type: integer
 - default value: 6
- **holes**: number of holes
 - type: integer
 - default value: 4
- **guesses**: number of guesses
 - type: integer
 - default value: 12
- **remise**: color repeated only once on combination
 - type: boolean
 - default value: 0
- **account**: account name
 - type: string
 - default value: `default`
- **save_on_exit**: save session on exit
 - type: boolean
 - default value: 0
- **save_on_play**: save session on every played guess
 - type: boolean
 - default value: 0

Chapter 6

Learning sources

Learning sources used on mastermind homework developement.

Online Docs/Tutos:

- Make: [1"](#)
- Readline: [1"](#)
- SDL: [1"](#) [2"](#)
- Gettext: [1"](#)
- NSIS: [1"](#)
- Doxygen: [1"](#)

Commands and tools:

- man command:

```
1 # examples:
2 man 0 stdlib.h
3 man 3 strdup
4 man 3 SDL_Surface
```

- info command:

```
1 # example:
2 info Make
3 info Texinfo
```

- cling (LLVM based interactive C/C++ interpreter): [site](#)

Chapter 7

Data Structure Index

7.1 Data Structures

Here are the data structures with brief descriptions:

cmd_t	Command object containing its name, its function and args	19
mm_conf_bool_t	Mastermind configuration option of type boolean (conf.bool.*)	19
mm_conf_int_t	Mastermind configuration option of type integer (conf.nbre.*)	20
mm_conf_str_t	Mastermind configuration option of type string (conf.str.*)	20
mm_conf_t	Mastermind general configuration type	21
mm_config	Current session configuration	21
mm_guess	Guess object, containing the combination by the user and its score	22
mm_score_t	Session score, containing score value and account name	22
mm_scores_t	Top scores history	23
mm_secret	Secret generated at the beginning of session and the freq of its colors	23
mm_session	Session object containing the secret object, the inputted guesses, session configuration and state	24
SDL_Table	Table struct that contains table dimensions	24

Chapter 8

File Index

8.1 File List

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

config.h	Mastermind core build time configuration options	48
colorscheme/4bit.h	4bit color scheme color for sdl version	27
colorscheme/jellybeans.h	Jellybeans color scheme for sdl	31
colorscheme/rainbow_simple.h	Simple_rainbow color scheme for sdl version	34
colorscheme/rcg_term.h	Rcg_term color scheme for sdl version	38
colorscheme/solarized_dark.h	Solarized dark color scheme for sdl version	42
colorscheme/solarized_light.h	Solarized light color scheme for sdl version	45
cli-cmd.c	Commands unctions handlers	49
cli-cmd.h	Commands functions handlers	50
cli.c	Command line interface implemetation of mastermind	52
core.c	Mastermind core funtions and types definition	53
core.h	Mastermind core funtions and types definition	59
sdl.c	SDL interface implementation of mastermind	65
util.c	??
util.h	??

Chapter 9

Data Structure Documentation

9.1 cmd_t Struct Reference

command object containing its name, its function and args

```
#include <cli-cmd.h>
```

Data Fields

- char * [n](#)
name of command
- int(* [e](#))(const char, const char **, [mm_session](#) *)
function to excute
- char [s](#)
short arg name else 0
- char * [l](#)
long arg name or NULL
- uint8_t [a](#)
nbre of max options args accpeted

9.1.1 Detailed Description

command object containing its name, its function and args

Definition at line 26 of file cli-cmd.h.

The documentation for this struct was generated from the following file:

- [cli-cmd.h](#)

9.2 mm_conf_bool_t Struct Reference

mastermind configuration option od type boolean (conf.bool.*)

```
#include <core.h>
```

Data Fields

- unsigned [type](#)

- configuration type: *MM_CONF_BOOL*
- char * [name](#)
configuration name
- uint8_t [val](#)
0 or 1

9.2.1 Detailed Description

mastermind configuration option of type boolean (conf.bool.*)

Definition at line 89 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.3 mm_conf_int_t Struct Reference

mastermind configuration option of type integer (conf.nbre.*)

```
#include <core.h>
```

Data Fields

- unsigned [type](#)
configuration type: *MM_CONF_INT*
- char * [name](#)
configuration name
- int [val](#)
configuration value
- int [min](#)
minimal integer value configuration value accepts
- int [max](#)
maximal integer value configuration value accepts

9.3.1 Detailed Description

mastermind configuration option of type integer (conf.nbre.*)

Definition at line 72 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.4 mm_conf_str_t Struct Reference

mastermind configuration option of type string (conf.str.*)

```
#include <core.h>
```

Data Fields

- unsigned [type](#)
configuration typr: MM_CONF_STR
- char * [name](#)
configuration type
- char * [val](#)
configuration value
- uint8_t [len](#)
length of string in value

9.4.1 Detailed Description

mastermind configuration option of type string (conf.str.*)

Definition at line 81 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.5 mm_conf_t Union Reference

mastermind general configuration type

```
#include <core.h>
```

Data Fields

- unsigned [type](#)
configuration type, share with all configurations
- [mm_conf_str_t](#) [str](#)
string configuration data
- [mm_conf_bool_t](#) [bool](#)
boolean configuration data
- [mm_conf_int_t](#) [nbre](#)
integer configuration data

9.5.1 Detailed Description

mastermind general configuration type

Definition at line 96 of file core.h.

The documentation for this union was generated from the following file:

- [core.h](#)

9.6 mm_config Struct Reference

contains current session configuration

```
#include <core.h>
```

Data Fields

- `uint8_t` [guesses](#)
max guesses on panel
- `uint8_t` [colors](#)
max nbre of colors
- `uint8_t` [holes](#)
nbre of holes (items) in a combination
- `uint8_t` [remise](#)
do/don't repeat color on combination

9.6.1 Detailed Description

contains current session configuration

Definition at line 26 of file `core.h`.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.7 mm_guess Struct Reference

the guess object, containing the combination by the user and its score

```
#include <core.h>
```

Data Fields

- `uint8_t *` [combination](#)
given combination (guess)
- `uint8_t` [right_pos](#)
nbre of items on right place
- `uint8_t` [wrong_pos](#)
nbre of items on wrong place

9.7.1 Detailed Description

the guess object, containing the combination by the user and its score

Definition at line 34 of file `core.h`.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.8 mm_score_t Struct Reference

session score, containing score value and account name

```
#include <core.h>
```


Data Fields

- long unsigned [score](#)
score value. TODO: do we need long unsigned ??
- char * [account](#)
account name

9.8.1 Detailed Description

session score, containing score value and account name

Definition at line 59 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.9 mm_scores_t Struct Reference

top scores history

```
#include <core.h>
```

Data Fields

- [mm_score_t](#) * [T](#)
top scores array
- unsigned [max](#)
max number of top scores to store
- unsigned [len](#)
current number of top scores stores

9.9.1 Detailed Description

top scores history

Definition at line 65 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.10 mm_secret Struct Reference

contains the secret generated at the beginning of session and the freq of its colors.

```
#include <core.h>
```

Data Fields

- uint8_t * [val](#)
secret combination (len: config->holes)
- uint8_t * [freq](#)
colors freq (len: config->colors)

9.10.1 Detailed Description

contains the secret generated at the beginning of session and the freq of its colors.

Definition at line 42 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.11 mm_session Struct Reference

the session object containing the secret object, the inputed guesses, session configuration and state.

```
#include <core.h>
```

Data Fields

- [uint8_t guessed](#)
nbre of user guessed combination
- [uint8_t state](#)
current state of session
- [char * account](#)
account name or NULL for default account
- [mm_secret * secret](#)
secret combination to guess
- [mm_config * config](#)
session config
- [mm_guess * panel](#)
session panel. FIXME: update doc

9.11.1 Detailed Description

the session object containing the secret object, the inputed guesses, session configuration and state.

Definition at line 49 of file core.h.

The documentation for this struct was generated from the following file:

- [core.h](#)

9.12 SDL_Table Struct Reference

table struct that contains table dimensions

Data Fields

- [unsigned x](#)
x position of table
- [unsigned y](#)
y position of table
- [unsigned w](#)

- width of table*
 - unsigned [h](#)
- height of table*
 - unsigned [rows](#)
- number of rows of table*
 - unsigned [cols](#)
- number of columns of table*

9.12.1 Detailed Description

table struct that contains table dimensions

Definition at line 40 of file `sdl.c`.

The documentation for this struct was generated from the following file:

- [sdl.c](#)

Chapter 10

File Documentation

10.1 colorscheme/4bit.h File Reference

4bit color scheme color for sdl version

Macros

- `#define bg_color`
- `#define fg_color`
- `#define br_color fg_color`
- `#define fg_black`
- `#define bg_black`
- `#define fg_red`
- `#define bg_red`
- `#define fg_green`
- `#define bg_green`
- `#define fg_yellow`
- `#define bg_yellow`
- `#define fg_blue`
- `#define bg_blue`
- `#define fg_magenta`
- `#define bg_magenta`
- `#define fg_cyan`
- `#define bg_cyan`
- `#define fg_white`
- `#define bg_white`

10.1.1 Detailed Description

4bit color scheme color for sdl version

Author

<http://ciembor.github.io/4bit/>

Definition in file [4bit.h](#).

10.1.2 Macro Definition Documentation

10.1.2.1 #define bg_black

Value:

```
{                                \
    0x26, 0x26, 0x26, 0xFF    \
}
```

Definition at line 20 of file 4bit.h.

10.1.2.2 #define bg_blue

Value:

```
{                                \
    0xbd, 0xbd, 0xdb, 0xFF    \
}
```

Definition at line 52 of file 4bit.h.

10.1.2.3 #define bg_color

Value:

```
{                                \
    0x0d, 0x19, 0x26, 0xFF    \
}
```

Definition at line 6 of file 4bit.h.

10.1.2.4 #define bg_cyan

Value:

```
{                                \
    0xbd, 0xdb, 0xdb, 0xFF    \
}
```

Definition at line 68 of file 4bit.h.

10.1.2.5 #define bg_green

Value:

```
{                                \
    0xbd, 0xdb, 0xbd, 0xFF    \
}
```

Definition at line 36 of file 4bit.h.

10.1.2.6 #define bg_magenta

Value:

```
{                                \
    0xdb, 0xbd, 0xdb, 0xFF    \
}
```

Definition at line 60 of file 4bit.h.

10.1.2.7 #define bg_red

Value:

```
{                                \|
    0xdb, 0xbd, 0xbd, 0xFF      \|
}
```

Definition at line 28 of file 4bit.h.

10.1.2.8 #define bg_white

Value:

```
{                                \|
    0xff, 0xff, 0xff, 0xFF      \|
}
```

Definition at line 76 of file 4bit.h.

10.1.2.9 #define bg_yellow

Value:

```
{                                \|
    0xdb, 0xdb, 0xbd, 0xFF      \|
}
```

Definition at line 44 of file 4bit.h.

10.1.2.10 #define fg_black

Value:

```
{                                \|
    0x00, 0x00, 0x00, 0xFF      \|
}
```

Definition at line 16 of file 4bit.h.

10.1.2.11 #define fg_blue

Value:

```
{                                \|
    0x7a, 0x7a, 0xb8, 0xFF      \|
}
```

Definition at line 48 of file 4bit.h.

10.1.2.12 #define fg_color

Value:

```
{                                \|
    0xd9, 0xe6, 0xf2, 0xFF      \|
}
```

Definition at line 10 of file 4bit.h.

10.1.2.13 #define fg_cyan

Value:

```
{                                \|
    0x7a, 0xb8, 0xb8, 0xFF      \|
}
```

Definition at line 64 of file 4bit.h.

10.1.2.14 #define fg_green

Value:

```
{                                \|
    0x7a, 0xb8, 0x7a, 0xFF      \|
}
```

Definition at line 32 of file 4bit.h.

10.1.2.15 #define fg_magenta

Value:

```
{                                \|
    0xb8, 0x7a, 0xb8, 0xFF      \|
}
```

Definition at line 56 of file 4bit.h.

10.1.2.16 #define fg_red

Value:

```
{                                \|
    0xb8, 0x7a, 0x7a, 0xFF      \|
}
```

Definition at line 24 of file 4bit.h.

10.1.2.17 #define fg_white

Value:

```
{                                \|
    0xd9, 0xd9, 0xd9, 0xFF      \|
}
```

Definition at line 72 of file 4bit.h.

10.1.2.18 #define fg_yellow

Value:

```
{                                \|
    0xb8, 0xb8, 0x7a, 0xFF      \|
}
```

Definition at line 40 of file 4bit.h.

10.2 colorscheme/jellybeans.h File Reference

jellybeans color scheme for sdl

Macros

- `#define fg_black`
- `#define bg_black`
- `#define fg_red`
- `#define bg_red`
- `#define fg_green`
- `#define bg_green`
- `#define fg_yellow`
- `#define bg_yellow`
- `#define fg_blue`
- `#define bg_blue`
- `#define fg_magenta`
- `#define bg_magenta`
- `#define fg_cyan`
- `#define bg_cyan`
- `#define fg_white`
- `#define bg_white`
- `#define bg_color`
- `#define fg_color`
- `#define br_color fg_color`

10.2.1 Detailed Description

jellybeans color scheme for sdl

Definition in file [jellybeans.h](#).

10.2.2 Macro Definition Documentation

10.2.2.1 `#define bg_black`

Value:

```
{
    0x40, 0x40, 0x40, 0xFF
}
```

Definition at line 9 of file jellybeans.h.

10.2.2.2 `#define bg_blue`

Value:

```
{
    0x81, 0x97, 0xBF, 0xFF
}
```

Definition at line 41 of file jellybeans.h.

10.2.2.3 #define bg_color

Value:

```
{
    0x15, 0x15, 0x15, 0xFF
}
```

Definition at line 69 of file jellybeans.h.

10.2.2.4 #define bg_cyan

Value:

```
{
    0x8F, 0xBF, 0xDC, 0xFF
}
```

Definition at line 57 of file jellybeans.h.

10.2.2.5 #define bg_green

Value:

```
{
    0x99, 0xAD, 0x6A, 0xFF
}
```

Definition at line 25 of file jellybeans.h.

10.2.2.6 #define bg_magenta

Value:

```
{
    0xC6, 0xB6, 0xEE, 0xFF
}
```

Definition at line 49 of file jellybeans.h.

10.2.2.7 #define bg_red

Value:

```
{
    0xCF, 0x6A, 0x4C, 0xFF
}
```

Definition at line 17 of file jellybeans.h.

10.2.2.8 #define bg_white

Value:

```
{
    0xE8, 0xE8, 0xD3, 0xFF
}
```

Definition at line 65 of file jellybeans.h.

10.2.2.9 #define bg_yellow

Value:

```
{
    0xFA, 0xD0, 0x7A, 0xFF
}
```

Definition at line 33 of file jellybeans.h.

10.2.2.10 #define fg_black

Value:

```
{
    0x1C, 0x1C, 0x1C, 0xFF
}
```

Definition at line 5 of file jellybeans.h.

10.2.2.11 #define fg_blue

Value:

```
{
    0x66, 0x78, 0x99, 0xFF
}
```

Definition at line 37 of file jellybeans.h.

10.2.2.12 #define fg_color

Value:

```
{
    0x88, 0x88, 0x88, 0xFF
}
```

Definition at line 73 of file jellybeans.h.

10.2.2.13 #define fg_cyan

Value:

```
{
    0x66, 0x87, 0x99, 0xFF
}
```

Definition at line 53 of file jellybeans.h.

10.2.2.14 #define fg_green

Value:

```
{
    0x79, 0x9D, 0x6A, 0xFF
}
```

Definition at line 21 of file jellybeans.h.

10.2.2.15 #define fg_magenta

Value:

```
{  
    0x87, 0x87, 0xAF, 0xFF  
}
```

Definition at line 45 of file jellybeans.h.

10.2.2.16 #define fg_red

Value:

```
{  
    0xB8, 0x53, 0x35, 0xFF  
}
```

Definition at line 13 of file jellybeans.h.

10.2.2.17 #define fg_white

Value:

```
{  
    0x88, 0x88, 0x88, 0xFF  
}
```

Definition at line 61 of file jellybeans.h.

10.2.2.18 #define fg_yellow

Value:

```
{  
    0xFF, 0xB9, 0x64, 0xFF  
}
```

Definition at line 29 of file jellybeans.h.

10.3 colorscheme/rainbow_simple.h File Reference

simple_rainbow color scheme for sdl version

Macros

- #define **fg_black**
- #define **bg_black**
- #define **fg_red**
- #define **bg_red**
- #define **fg_green**
- #define **bg_green**
- #define **fg_yellow**
- #define **bg_yellow**
- #define **fg_blue**

- `#define bg_blue`
- `#define fg_magenta`
- `#define bg_magenta`
- `#define fg_cyan`
- `#define bg_cyan`
- `#define fg_white`
- `#define bg_white`
- `#define bg_color`
- `#define fg_color`
- `#define br_color fg_color`

10.3.1 Detailed Description

simple_rainbow color scheme for sdl version

Definition in file [rainbow_simple.h](#).

10.3.2 Macro Definition Documentation

10.3.2.1 `#define bg_black`

Value:

```
{
    0x88, 0x88, 0x88, 0xFF
}
```

Definition at line 9 of file rainbow_simple.h.

10.3.2.2 `#define bg_blue`

Value:

```
{
    0x77, 0xbe, 0xe0, 0xFF
}
```

Definition at line 41 of file rainbow_simple.h.

10.3.2.3 `#define bg_color`

Value:

```
{
    0x57, 0x57, 0x57, 0xFF
}
```

Definition at line 70 of file rainbow_simple.h.

10.3.2.4 `#define bg_cyan`

Value:

```
{
    0xff, 0xc1, 0x78, 0xFF
}
```

Definition at line 57 of file rainbow_simple.h.

10.3.2.5 #define bg_green

Value:

```
{
    0xbd, 0xe0, 0x77, 0xFF
}
```

Definition at line 25 of file rainbow_simple.h.

10.3.2.6 #define bg_magenta

Value:

```
{
    0xdd, 0x91, 0xf3, 0xFF
}
```

Definition at line 49 of file rainbow_simple.h.

10.3.2.7 #define bg_red

Value:

```
{
    0xff, 0x82, 0x78, 0xFF
}
```

Definition at line 17 of file rainbow_simple.h.

10.3.2.8 #define bg_white

Value:

```
{
    0xcc, 0xcc, 0xcc, 0xFF
}
```

Definition at line 65 of file rainbow_simple.h.

10.3.2.9 #define bg_yellow

Value:

```
{
    0xea, 0xdc, 0x84, 0xFF
}
```

Definition at line 33 of file rainbow_simple.h.

10.3.2.10 #define fg_black

Value:

```
{
    0x66, 0x66, 0x66, 0xFF
}
```

Definition at line 5 of file rainbow_simple.h.

10.3.2.11 #define fg_blue

Value:

```
{                                \  
    0x77, 0xbe, 0xe0, 0xFF      \  
}
```

Definition at line 37 of file rainbow_simple.h.

10.3.2.12 #define fg_color

Value:

```
{                                \  
    0xdc, 0xdc, 0xcc, 0xFF      \  
}
```

Definition at line 74 of file rainbow_simple.h.

10.3.2.13 #define fg_cyan

Value:

```
{                                \  
    0xff, 0xc1, 0x78, 0xFF      \  
}
```

Definition at line 53 of file rainbow_simple.h.

10.3.2.14 #define fg_green

Value:

```
{                                \  
    0xbd, 0xe0, 0x77, 0xFF      \  
}
```

Definition at line 21 of file rainbow_simple.h.

10.3.2.15 #define fg_magenta

Value:

```
{                                \  
    0xdd, 0x91, 0xf3, 0xFF      \  
}
```

Definition at line 45 of file rainbow_simple.h.

10.3.2.16 #define fg_red

Value:

```
{                                \  
    0xff, 0x82, 0x78, 0xFF      \  
}
```

Definition at line 13 of file rainbow_simple.h.

10.3.2.17 #define fg_white

Value:

```
{                                \
    0xdd, 0xdd, 0xdd, 0xFF      \
}
```

Definition at line 61 of file rainbow_simple.h.

10.3.2.18 #define fg_yellow

Value:

```
{                                \
    0xea, 0xdc, 0x84, 0xFF      \
}
```

Definition at line 29 of file rainbow_simple.h.

10.4 colorscheme/rcg_term.h File Reference

rcg_term color scheme for sdl version

Macros

- #define **fg_color**
- #define **bg_color**
- #define **br_color** fg_color
- #define **fg_black**
- #define **fg_red**
- #define **fg_green**
- #define **fg_yellow**
- #define **fg_blue**
- #define **fg_magenta**
- #define **fg_cyan**
- #define **fg_white**
- #define **bg_black**
- #define **bg_red**
- #define **bg_green**
- #define **bg_yellow**
- #define **bg_blue**
- #define **bg_magenta**
- #define **bg_cyan**
- #define **bg_white**

10.4.1 Detailed Description

rcg_term color scheme for sdl version

Definition in file [rcg_term.h](#).

10.4.2 Macro Definition Documentation

10.4.2.1 #define bg_black

Value:

```
{                                \
    0x74, 0x74, 0x74, 0xFF    \
}
```

Definition at line 48 of file rcg_term.h.

10.4.2.2 #define bg_blue

Value:

```
{                                \
    0xb6, 0xde, 0xfb, 0xFF    \
}
```

Definition at line 64 of file rcg_term.h.

10.4.2.3 #define bg_color

Value:

```
{                                \
    0x4B, 0x5D, 0x7E, 0xFF    \
}
```

Definition at line 9 of file rcg_term.h.

10.4.2.4 #define bg_cyan

Value:

```
{                                \
    0xd7, 0xd9, 0xfc, 0xFF    \
}
```

Definition at line 72 of file rcg_term.h.

10.4.2.5 #define bg_green

Value:

```
{                                \
    0xc3, 0xf7, 0x86, 0xFF    \
}
```

Definition at line 56 of file rcg_term.h.

10.4.2.6 #define bg_magenta

Value:

```
{                                \
    0xfb, 0xa1, 0xfb, 0xFF    \
}
```

Definition at line 68 of file rcg_term.h.

10.4.2.7 #define bg_red

Value:

```
{                                \  
    0xf9, 0x92, 0x86, 0xFF      \  
}
```

Definition at line 52 of file rcg_term.h.

10.4.2.8 #define bg_white

Value:

```
{                                \  
    0xe2, 0xe2, 0xe2, 0xFF      \  
}
```

Definition at line 76 of file rcg_term.h.

10.4.2.9 #define bg_yellow

Value:

```
{                                \  
    0xfc, 0xfb, 0xcc, 0xFF      \  
}
```

Definition at line 60 of file rcg_term.h.

10.4.2.10 #define fg_black

Value:

```
{                                \  
    0x6c, 0x6c, 0x6c, 0xFF      \  
}
```

Definition at line 15 of file rcg_term.h.

10.4.2.11 #define fg_blue

Value:

```
{                                \  
    0xa9, 0xcd, 0xeb, 0xFF      \  
}
```

Definition at line 31 of file rcg_term.h.

10.4.2.12 #define fg_color

Value:

```
{                                \  
    0xCC, 0xCC, 0xCC, 0xFF      \  
}
```

Definition at line 5 of file rcg_term.h.

10.4.2.13 #define fg_cyan

Value:

```
{                                \|
    0xc9, 0xca, 0xec, 0xFF      \|
}
```

Definition at line 39 of file rcg_term.h.

10.4.2.14 #define fg_green

Value:

```
{                                \|
    0xb6, 0xe7, 0x7d, 0xFF      \|
}
```

Definition at line 23 of file rcg_term.h.

10.4.2.15 #define fg_magenta

Value:

```
{                                \|
    0xea, 0x96, 0xeb, 0xFF      \|
}
```

Definition at line 35 of file rcg_term.h.

10.4.2.16 #define fg_red

Value:

```
{                                \|
    0xe9, 0x89, 0x7c, 0xFF      \|
}
```

Definition at line 19 of file rcg_term.h.

10.4.2.17 #define fg_white

Value:

```
{                                \|
    0xCC, 0xCC, 0xCC, 0xFF      \|
}
```

Definition at line 43 of file rcg_term.h.

10.4.2.18 #define fg_yellow

Value:

```
{                                \|
    0xec, 0xeb, 0xbe, 0xFF      \|
}
```

Definition at line 27 of file rcg_term.h.

10.5 colorscheme/solarized_dark.h File Reference

solarized dark color scheme for sdl version

Macros

- `#define fg_black`
- `#define fg_red`
- `#define fg_green`
- `#define fg_yellow`
- `#define fg_blue`
- `#define fg_magenta`
- `#define fg_cyan`
- `#define fg_white`
- `#define bg_black`
- `#define bg_red`
- `#define bg_green`
- `#define bg_yellow`
- `#define bg_blue`
- `#define bg_magenta`
- `#define bg_cyan`
- `#define bg_white`
- `#define bg_color bg_black`
- `#define fg_color fg_white`
- `#define br_color fg_white`

10.5.1 Detailed Description

solarized dark color scheme for sdl version

Definition in file [solarized_dark.h](#).

10.5.2 Macro Definition Documentation

10.5.2.1 `#define bg_black`

Value:

```
{
    0x00, 0x2b, 0x36, 0xff
}
```

Definition at line 37 of file [solarized_dark.h](#).

10.5.2.2 `#define bg_blue`

Value:

```
{
    0x83, 0x94, 0x96, 0xff
}
```

Definition at line 53 of file [solarized_dark.h](#).

10.5.2.3 #define bg_cyan

Value:

```
{                                \|
    0x93, 0xa1, 0xa1, 0xff      \|
}
```

Definition at line 61 of file solarized_dark.h.

10.5.2.4 #define bg_green

Value:

```
{                                \|
    0x58, 0x6e, 0x75, 0xff      \|
}
```

Definition at line 45 of file solarized_dark.h.

10.5.2.5 #define bg_magenta

Value:

```
{                                \|
    0x6c, 0x71, 0xc4, 0xff      \|
}
```

Definition at line 57 of file solarized_dark.h.

10.5.2.6 #define bg_red

Value:

```
{                                \|
    0xcb, 0x4b, 0x16, 0xff      \|
}
```

Definition at line 41 of file solarized_dark.h.

10.5.2.7 #define bg_white

Value:

```
{                                \|
    0xfd, 0xf6, 0xe3, 0xff      \|
}
```

Definition at line 65 of file solarized_dark.h.

10.5.2.8 #define bg_yellow

Value:

```
{                                \|
    0x65, 0x7b, 0x83, 0xff      \|
}
```

Definition at line 49 of file solarized_dark.h.

10.5.2.9 #define fg_black

Value:

```
{
    0x07, 0x36, 0x42, 0xff
}
```

Definition at line 5 of file solarized_dark.h.

10.5.2.10 #define fg_blue

Value:

```
{
    0x26, 0x8b, 0xd2, 0xff
}
```

Definition at line 21 of file solarized_dark.h.

10.5.2.11 #define fg_cyan

Value:

```
{
    0x2a, 0xa1, 0x98, 0xff
}
```

Definition at line 29 of file solarized_dark.h.

10.5.2.12 #define fg_green

Value:

```
{
    0x85, 0x99, 0x00, 0xff
}
```

Definition at line 13 of file solarized_dark.h.

10.5.2.13 #define fg_magenta

Value:

```
{
    0xd3, 0x36, 0x82, 0xff
}
```

Definition at line 25 of file solarized_dark.h.

10.5.2.14 #define fg_red

Value:

```
{
    0xdc, 0x32, 0x2f, 0xff
}
```

Definition at line 9 of file solarized_dark.h.

10.5.2.15 `#define fg_white`**Value:**

```
{
    0xee, 0xe8, 0xd5, 0xff
}
```

Definition at line 33 of file solarized_dark.h.

10.5.2.16 `#define fg_yellow`**Value:**

```
{
    0xb5, 0x89, 0x00, 0xff
}
```

Definition at line 17 of file solarized_dark.h.

10.6 colorscheme/solarized_light.h File Reference

solarized light color scheme for sdl version

Macros

- `#define fg_black`
- `#define fg_red`
- `#define fg_green`
- `#define fg_yellow`
- `#define fg_blue`
- `#define fg_magenta`
- `#define fg_cyan`
- `#define fg_white`
- `#define bg_black`
- `#define bg_red`
- `#define bg_green`
- `#define bg_yellow`
- `#define bg_blue`
- `#define bg_magenta`
- `#define bg_cyan`
- `#define bg_white`
- `#define bg_color bg_white`
- `#define fg_color fg_black`
- `#define br_color fg_black`

10.6.1 Detailed Description

solarized light color scheme for sdl version

Definition in file [solarized_light.h](#).

10.6.2 Macro Definition Documentation

10.6.2.1 #define bg_black

Value:

```
{          0x00, 0x2b, 0x36, 0xff          \
}
```

Definition at line 37 of file solarized_light.h.

10.6.2.2 #define bg_blue

Value:

```
{          0x83, 0x94, 0x96, 0xff          \
}
```

Definition at line 53 of file solarized_light.h.

10.6.2.3 #define bg_cyan

Value:

```
{          0x93, 0xa1, 0xa1, 0xff          \
}
```

Definition at line 61 of file solarized_light.h.

10.6.2.4 #define bg_green

Value:

```
{          0x58, 0x6e, 0x75, 0xff          \
}
```

Definition at line 45 of file solarized_light.h.

10.6.2.5 #define bg_magenta

Value:

```
{          0x6c, 0x71, 0xc4, 0xff          \
}
```

Definition at line 57 of file solarized_light.h.

10.6.2.6 #define bg_red

Value:

```
{          0xcb, 0x4b, 0x16, 0xff          \
}
```

Definition at line 41 of file solarized_light.h.

10.6.2.7 #define bg_white

Value:

```
{                                \  
    0xfd, 0xf6, 0xe3, 0xff      \  
}
```

Definition at line 65 of file solarized_light.h.

10.6.2.8 #define bg_yellow

Value:

```
{                                \  
    0x65, 0x7b, 0x83, 0xff      \  
}
```

Definition at line 49 of file solarized_light.h.

10.6.2.9 #define fg_black

Value:

```
{                                \  
    0x07, 0x36, 0x42, 0xff      \  
}
```

Definition at line 5 of file solarized_light.h.

10.6.2.10 #define fg_blue

Value:

```
{                                \  
    0x26, 0x8b, 0xd2, 0xff      \  
}
```

Definition at line 21 of file solarized_light.h.

10.6.2.11 #define fg_cyan

Value:

```
{                                \  
    0x2a, 0xa1, 0x98, 0xff      \  
}
```

Definition at line 29 of file solarized_light.h.

10.6.2.12 #define fg_green

Value:

```
{                                \  
    0x85, 0x99, 0x00, 0xff      \  
}
```

Definition at line 13 of file solarized_light.h.

10.6.2.13 #define fg_magenta

Value:

```
{
    0xd3, 0x36, 0x82, 0xff
}
```

Definition at line 25 of file solarized_light.h.

10.6.2.14 #define fg_red

Value:

```
{
    0xdc, 0x32, 0x2f, 0xff
}
```

Definition at line 9 of file solarized_light.h.

10.6.2.15 #define fg_white

Value:

```
{
    0xee, 0xe8, 0xd5, 0xff
}
```

Definition at line 33 of file solarized_light.h.

10.6.2.16 #define fg_yellow

Value:

```
{
    0xb5, 0x89, 0x00, 0xff
}
```

Definition at line 17 of file solarized_light.h.

10.7 config.h File Reference

mastermind core build time configuration options

```
#include "colorscheme/solarized_light.h"
```

Macros

- #define `PACKAGE` "mastermind"
package name
- #define `PROGRAM_NAME` "MasterMind"
user firendly program name
- #define `PROGRAM_VERSION` "0.1.0"
verion

- `#define PROGRAM_URL "https://github.com/lejenome/mastermind"`
website
- `#define MM_HOLES 4`
default holes number
- `#define MM_COLORS 6`
default colors number
- `#define MM_GUESSES 10`
default guesses number
- `#define MM_HOLES_MAX 8`
max number of holes mastermind can accepts
- `#define MM_COLORS_MAX 12`
max number of colors mastermind can accepts
- `#define MM_GUESSES_MAX 20`
max number of guesses mastermind can accepts
- `#define FONSDIR "/home/lejenome/git/mastermind/build-linux/share/fonts/"`
- `#define ICONSDIR "/home/lejenome/git/mastermind/build-linux/share/icons/"`
- `#define LOCALEDIR "/home/lejenome/git/mastermind/build-linux/share/locale/"`

10.7.1 Detailed Description

mastermind core build time configuration options

Definition in file [config.h](#).

10.8 cli-cmd.c File Reference

commands unctons handlers

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "util.h"
#include "core.h"
#include "cli-cmd.h"
#include <getopt.h>
```

Functions

- `int execArgs (int argc, char *argv[], cmd_t *cmds, size_t len, mm_session *session)`
- `int cmd_quit (const char argc, const char **argv, mm_session *session)`
- `int cmd_savegame (const char argc, const char **argv, mm_session *session)`
- `int cmd_set (const char argc, const char **argv, mm_session *session)`
- `int cmd_restart (const char argc, const char **argv, mm_session *session)`
- `int cmd_help (const char argc, const char **argv, mm_session *session)`
- `int cmd_score (const char argc, const char **argv, mm_session *session)`
- `int cmd_account (const char argc, const char **argv, mm_session *session)`
- `int cmd_version (const char argc, const char **argv, mm_session *session)`

Variables

- `uint8_t mm_cmd_mode = MM_CMD_MODE_OPT`

10.8.1 Detailed Description

commands unctions handlers

Definition in file [cli-cmd.c](#).

10.8.2 Function Documentation

10.8.2.1 `int execArgs (int argc, char * argv[], cmd_t * cmds, size_t len, mm_session * session)`

parse and exec command line arguments

Parameters

<i>argc</i>	main function argc param
<i>argv</i>	main function argv param
<i>cmds</i>	list of commands objects
<i>len</i>	length of cmds array

Returns

excuted commands return values

Definition at line 24 of file cli-cmd.c.

10.9 cli-cmd.h File Reference

commands functions handlers

```
#include "core.h"
```

Data Structures

- struct [cmd_t](#)
command object containing its name, its function and args

Enumerations

- enum {
[MM_CMD_SUCCESS](#) = 0, [MM_CMD_ERROR](#) = (1 << 0), [MM_CMD_NEW_SESSION](#) = (1 << 1), [MM_CMD_REDESIGN](#) = (1 << 2),
[MM_CMD_OPT_EXIT](#) }
cmds return values
- enum { [MM_CMD_MODE_OPT](#), [MM_CMD_MODE_CLI](#), [MM_CMD_MODE_GUI](#) }
mode cmds are executed on (to modify the output style)

Functions

- int [cmd_quit](#) (const char, const char **, [mm_session](#) *)
- int [cmd_savegame](#) (const char, const char **, [mm_session](#) *)
- int [cmd_set](#) (const char, const char **, [mm_session](#) *)
- int [cmd_restart](#) (const char, const char **, [mm_session](#) *)
- int [cmd_score](#) (const char, const char **, [mm_session](#) *)

- int **cmd_help** (const char, const char **, [mm_session](#) *)
- int **cmd_account** (const char, const char **, [mm_session](#) *)
- int **cmd_version** (const char, const char **, [mm_session](#) *)
- int **execArgs** (int argc, char *argv[], [cmd_t](#) *cmds, size_t len, [mm_session](#) *)

Variables

- uint8_t **mm_cmd_mode**

10.9.1 Detailed Description

commands functions handlers

Definition in file [cli-cmd.h](#).

10.9.2 Enumeration Type Documentation

10.9.2.1 anonymous enum

cmds return values

Enumerator

- MM_CMD_SUCCESS** cmd succeeded
- MM_CMD_ERROR** there was an error
- MM_CMD_NEW_SESSION** new session needed
- MM_CMD_REDESIGN** redesign the panel is needed
- MM_CMD_OPT_EXIT** just exit the program if cmd executed from option

Definition at line 11 of file [cli-cmd.h](#).

10.9.2.2 anonymous enum

mode cmds are executed on (to modify the output style)

Enumerator

- MM_CMD_MODE_OPT** command executed on option mode
- MM_CMD_MODE_CLI** command executed on interactive cli mode
- MM_CMD_MODE_GUI** command executed on GUI interface mode

Definition at line 19 of file [cli-cmd.h](#).

10.9.3 Function Documentation

10.9.3.1 int execArgs (int argc, char * argv[], cmd_t * cmds, size_t len, mm_session * session)

parse and exec command line arguments

Parameters

<i>argc</i>	main function argc param
<i>argv</i>	main function argv param
<i>cmds</i>	list of commands objects
<i>len</i>	length of cmds array

Returns

excuted commands return values

Definition at line 24 of file cli-cmd.c.

10.10 cli.c File Reference

command line interface implemetation of mastermind

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <stdint.h>
#include <readline/readline.h>
#include <readline/history.h>
#include "util.h"
#include "cli-cmd.h"
#include "core.h"
```

Functions

- void [printPanel](#) ()
draw session panel
- char ** [parseBuf](#) (char *buf, unsigned *argc)
- int [getCombination](#) (uint8_t *T)
- int **main** (int argc, char *argv[])

Variables

- [mm_session](#) * **session**
- [cmd_t](#) **cmds** []

10.10.1 Detailed Description

command line interface implemetation of mastermind

Definition in file [cli.c](#).

10.10.2 Function Documentation

10.10.2.1 int getCombination (uint8_t * T)

get guessed combination and handle input buffer commands

Returns

-1 : input error, redo (do not redraw table) 0 : seccess input, redo if mm_play(T) does not success (do not redraw table) or next (redraw table) 1 : cmd input, redo (do not redo table) 2 : cmd input, next (redraw table)

Definition at line 236 of file cli.c.

10.10.2.2 char parseBuf (char * buf, unsigned * argc)**

parse buffer and get arguments from it

Parameters

<i>buf</i>	buffer to parse
<i>argc</i>	poiter to where to store arguments count

Returns

arguments array or NULL if buf is invalid

Definition at line 69 of file cli.c.

10.10.3 Variable Documentation**10.10.3.1 cmd_t cmds[]****Initial value:**

```
= {
    { .n = "quit", .e = cmd_quit, .s = 0 },
    { .n = "set", .e = cmd_set, .s = 's', .a = 2 },
    { .n = "restart", .e = cmd_restart, .s = 0 },
    { .n = "savegame", .e = cmd_savegame, .s = 0 },
    { .n = "score", .e = cmd_score, .s = 'c', .a = 0 },
    { .n = "help", .e = cmd_help, .s = 'h', .a = 1 },
    { .n = "account", .e = cmd_account, .s = 'a', .a = 1 },
    { .n = "version", .e = cmd_version, .s = 'v', .a = 0 },
}
```

Definition at line 22 of file cli.c.

10.11 core.c File Reference

mastermind core funtions and types definition

```
#include <stdlib.h>
#include <stdio.h>
#include <time.h>
#include <string.h>
#include <assert.h>
#include <stdint.h>
#include <errno.h>
#include "util.h"
#include "core.h"
#include <windows.h>
```

Functions

- [mm_session * mm_session_new](#) ()
- [void mm_config_load](#) ()
- [mm_config * mm_config_new](#) ()
- [void mm_config_save](#) ()
- [unsigned mm_config_set](#) (const char *name, const char *value)
- [mm_secret * mm_secret_new](#) (mm_config *conf)
- [void mm_scores_load](#) ()
- [const mm_scores_t * mm_scores_get](#) ()
- [void mm_scores_save](#) (mm_session *session)
- [unsigned mm_play](#) (mm_session *session, uint8_t *T)
- [long unsigned mm_score](#) (mm_session *session)
- [mm_guess mm_play_last](#) (mm_session *session)
- [void mm_init](#) (const char *data_dir)
- [void mm_session_free](#) (mm_session *session)
- [void mm_session_exit](#) (mm_session *session)
- [unsigned int mm_session_save](#) (mm_session *session)
- [mm_session * mm_session_restore](#) ()

Variables

- [mm_scores_t mm_scores](#) = {.T = NULL, .max = 20, .len = 0}
top 20 scores struct where to load score.txt file content
- [char * mm_config_path](#) = NULL
config file path
- [char * mm_score_path](#) = NULL
score.txt file path
- [char * mm_store_path](#) = NULL
store.data file path where we store unfinished session. FIXME: change to better name
- [mm_conf_t mm_confs](#) []
config options arrays of length MM_POS_LEN

10.11.1 Detailed Description

mastermind core funtions and types definition

Definition in file [core.c](#).

10.11.2 Function Documentation

10.11.2.1 void mm_config_load ()

load global config from config file and save on mm_confs array

Note

config file is a list of <name> and

pairs. e.g: <name1> <value1> <name2> <value2> <name> is 40 max chars and
is 20 max chars if

is type string, " is not needed and it will be readed as part of value. comments are not supported on config file

Definition at line 84 of file core.c.

10.11.2.2 `mm_config* mm_config_new ()`

create new session config

Returns

new session config

Definition at line 154 of file core.c.

10.11.2.3 `void mm_config_save ()`

save global config on the config file

Definition at line 166 of file core.c.

10.11.2.4 `unsigned mm_config_set (const char * name, const char * value)`

change global config with name to value then save to config file

Parameters

<i>name</i>	name of global config to change
<i>value</i>	the new value of global config name

Returns

0 on success , 1 if conf option not found, 2 if conf value is not valid

Definition at line 195 of file core.c.

10.11.2.5 `void mm_init (const char * data_dir)`

This function initialize data && config && store files path using system and core default standard or passed dir path

Note

you do not need to call this function only if you want to use custom dir

Parameters

<i>data_dir</i>	path to dir that will contain the files or NULL to use system default/standard paths
-----------------	--

Definition at line 410 of file core.c.

10.11.2.6 `unsigned mm_play (mm_session * session, uint8_t * T)`

This function is the most important function in the code this function accept new guess combination , add it to the session if it's not ended and calculated the score of the current guess then update session status

Parameters

<i>session</i>	current session
<i>t</i>	the new guess combination

Returns

0 on success 1 on failure (session already ended, combination is not valid)

Definition at line 327 of file core.c.

10.11.2.7 `mm_guess mm_play_last (mm_session * session)`

get last guess objet

Parameters

<i>session</i>	current session
----------------	-----------------

Returns

last guess object

Definition at line 398 of file core.c.

10.11.2.8 long unsigned mm_score (mm_session * session)

geenrate session score

Parameters

<i>session</i>	session which to generate score
----------------	---------------------------------

Returns

session score

Definition at line 375 of file core.c.

10.11.2.9 const mm_scores_t* mm_scores_get ()

return pointer to scores object

Returns

pointer to score object

Definition at line 270 of file core.c.

10.11.2.10 void mm_scores_load ()

load scores from file

Definition at line 251 of file core.c.

10.11.2.11 void mm_scores_save (mm_session * session)

generate score of session and save it to score object/file if it's on top 20

Parameters

<i>session</i>	session which to save score
----------------	-----------------------------

Definition at line 279 of file core.c.

10.11.2.12 mm_secret* mm_secret_new (mm_config * conf)

create the secret part of mastermind using session config this fuction use random and save it on mm_secret->val
&& save freq of every color on mm_secret->freq

Parameters

<i>conf</i>	config of current session
-------------	---------------------------

Returns

secret objet for this session

Definition at line 234 of file core.c.

10.11.2.13 void mm_session_exit (mm_session * session)

save session if not ended && save_on_exit = 1 then free object

Parameters

<i>session</i>	session to check and free before exit
----------------	---------------------------------------

Note

if your are not exiting the program use mm_session_free instead as mm_session_exit may store the session

Definition at line 504 of file core.c.

10.11.2.14 void mm_session_free (mm_session * session)

free session object

Parameters

<i>session</i>	session to free
----------------	-----------------

Definition at line 488 of file core.c.

10.11.2.15 mm_session* mm_session_new ()

create new mastermind session and initialize viables && config

Returns

new session object

Definition at line 63 of file core.c.

10.11.2.16 mm_session* mm_session_restore ()

this function restore session object from mm_store_path file

Returns

NULL on failure , session object pointeur on success

Definition at line 556 of file core.c.

10.11.2.17 unsigned int mm_session_save (mm_session * session)

save session object on mm_store_path file

Parameters

<i>session</i>	current session object
----------------	------------------------

Returns

0 on success , 1 on failure

Definition at line 515 of file core.c.

10.11.3 Variable Documentation

10.11.3.1 mm_conf_t mm_confs[]

Initial value:

```
= {
    [MM_POS_GUESSES] = {.nbre = {.name = "guesses",
                                .type = MM_CONF_INT,
                                .val = MM_GUESSES,
                                .min = 2,
                                .max = MM_GUESSES_MAX}},
    [MM_POS_COLORS] = {.nbre = {.type = MM_CONF_INT,
                                .name = "colors",
                                .val = MM_COLORS,
                                .min = 2,
                                .max = MM_COLORS_MAX}},
    [MM_POS_HOLES] = {.nbre = {.type = MM_CONF_INT,
                                .name = "holes",
                                .val = MM_HOLES,
                                .min = 2,
                                .max = MM_HOLES_MAX}},
    [MM_POS_REMISE] = {.bool = {.type = MM_CONF_BOOL,
                                .name = "remise",
                                .val = 0}},
    [MM_POS_ACCOUNT] = {.str = {.type = MM_CONF_STR,
                                .name = "account",
                                .val = "default"}},
    [MM_POS_SAVE_EXIT] = {.bool = {.type = MM_CONF_BOOL,
                                .name = "save_on_exit",
                                .val = 0}},
    [MM_POS_SAVE_PLAY] = {.bool = {.type = MM_CONF_BOOL,
                                .name = "save_on_play",
                                .val = 0}},
}
```

config options arrays of length MM_POS_LEN

Definition at line 30 of file core.c.

10.12 core.h File Reference

mastermind core funtions and types definition

```
#include <stdint.h>
#include "../config.h"
```

Data Structures

- struct [mm_config](#)
contains current session configuration
- struct [mm_guess](#)
the guess object, containing the combination by the user and its score

- struct `mm_secret`
contains the secret generated at the beginning of session and the freq of its colors.
- struct `mm_session`
the session object containing the secret object, the inputed guesses, session configuration and state.
- struct `mm_score_t`
session score, containing score value and account name
- struct `mm_scores_t`
top scores history
- struct `mm_conf_int_t`
mastermind configuration option of type integer (conf.nbre.)*
- struct `mm_conf_str_t`
mastermind configuration option of type string (conf.str.)*
- struct `mm_conf_bool_t`
mastermind configuration option of type boolean (conf.bool.)*
- union `mm_conf_t`
mastermind general configuration type

Enumerations

- enum { `MM_NEW`, `MM_PLAYING`, `MM_SUCCESS`, `MM_FAIL` }
different session states
- enum { `MM_CONF_INT`, `MM_CONF_STR`, `MM_CONF_BOOL` }
supported types of configuration options
- enum {
`MM_POS_GUESSES`, `MM_POS_COLORS`, `MM_POS_HOLES`, `MM_POS_REMISE`,
`MM_POS_ACCOUNT`, `MM_POS_SAVE_EXIT`, `MM_POS_SAVE_PLAY`, `MM_POS_LEN` }
config options indexes on mm_confs

Functions

- `mm_session * mm_session_new ()`
- `mm_session * mm_session_restore ()`
- `unsigned int mm_session_save (mm_session *)`
- `void mm_session_free (mm_session *)`
- `void mm_session_exit (mm_session *)`
- `mm_config * mm_config_new ()`
- `void mm_config_load ()`
- `void mm_config_save ()`
- `unsigned mm_config_set (const char *, const char *)`
- `const mm_scores_t * mm_scores_get ()`
- `long unsigned mm_score (mm_session *session)`
- `mm_secret * mm_secret_new (mm_config *)`
- `unsigned mm_play (mm_session *, uint8_t *)`
- `void mm_init (const char *)`

Variables

- `mm_conf_t mm_confs []`
config options arrays of length `MM_POS_LEN`

10.12.1 Detailed Description

mastermind core funtions and types definition

Definition in file [core.h](#).

10.12.2 Enumeration Type Documentation

10.12.2.1 anonymous enum

different session states

Enumerator

MM_NEW just created session and didn't play any guess yet

MM_PLAYING played at least one valid guess but session not ended

MM_SUCCESS session ended with success (user find the secret)

MM_FAIL session ended with failure (user didn't find the secret)

Definition at line 13 of file core.h.

10.12.2.2 anonymous enum

supported types of configuration options

Enumerator

MM_CONF_INT configuration value is an integer

MM_CONF_STR configuration value is a string

MM_CONF_BOOL configuration value is boolean (0 or 1)

Definition at line 20 of file core.h.

10.12.2.3 anonymous enum

config options indexes on mm_confs

Enumerator

MM_POS_LEN length of mm_confs arrays

Definition at line 104 of file core.h.

10.12.3 Function Documentation

10.12.3.1 void mm_config_load ()

load global config from config file and save on mm_confs array

Note

config file is a list of <name> and

pairs. e.g: <name1> <value1> <name2> <value2> <name> is 40 max chars and
is 20 max chars if

is type string, " is not needed and it will be readed as part of value. comments are not supported on config file

Definition at line 84 of file core.c.

10.12.3.2 `mm_config* mm_config_new ()`

create new session config

Returns

new session config

Definition at line 154 of file core.c.

10.12.3.3 `void mm_config_save ()`

save global config on the config file

Definition at line 166 of file core.c.

10.12.3.4 `unsigned mm_config_set (const char * name, const char * value)`

change global config with name to value then save to config file

Parameters

<i>name</i>	name of global config to change
<i>value</i>	the new value of global config name

Returns

0 on success , 1 if conf option not found, 2 if conf value is not valid

Definition at line 195 of file core.c.

10.12.3.5 `void mm_init (const char * data_dir)`

This function initialize data && config && store files path using system and core default standard or passed dir path

Note

you do not need to call this function only if you want to use custom dir

Parameters

<i>data_dir</i>	path to dir that will contain the files or NULL to use system default/standard paths
-----------------	--

Definition at line 410 of file core.c.

10.12.3.6 `unsigned mm_play (mm_session * session, uint8_t * T)`

This function is the most important function in the code this function accept new guess combination , add it to the session if it's not ended and calculated the score of the current guess then update session status

Parameters

<i>session</i>	current session
<i>t</i>	the new guess combination

Returns

0 on success 1 on failure (session already ended, combination is not valid)

Definition at line 327 of file core.c.

10.12.3.7 long unsigned mm_score (mm_session * session)

geenrate session score

Parameters

<i>session</i>	session which to generate score
----------------	---------------------------------

Returns

session score

Definition at line 375 of file core.c.

10.12.3.8 `const mm_scores_t* mm_scores_get ()`

return pointer to scores object

Returns

pointer to score object

Definition at line 270 of file core.c.

10.12.3.9 `mm_secret* mm_secret_new (mm_config * conf)`

create the secret part of mastermind using session config this fuction use random and save it on mm_secret->val
&& save freq of every color on mm_secret->freq

Parameters

<i>conf</i>	config of current session
-------------	---------------------------

Returns

secret objet for this session

Definition at line 234 of file core.c.

10.12.3.10 `void mm_session_exit (mm_session * session)`

save session if not ended && save_on_exit = 1 then free object

Parameters

<i>session</i>	session to check and free before exit
----------------	---------------------------------------

Note

if your are not exiting the program use mm_session_free instead as mm_session_exit may store the session

Definition at line 504 of file core.c.

10.12.3.11 `void mm_session_free (mm_session * session)`

free session object

Parameters

<i>session</i>	session to free
----------------	-----------------

Definition at line 488 of file core.c.

10.12.3.12 mm_session* mm_session_new ()

create new mastermind session and initialize viables && config

Returns

new session object

Definition at line 63 of file core.c.

10.12.3.13 mm_session* mm_session_restore ()

this function restore session object from mm_store_path file

Returns

NULL on failure , session object pointeur on success

Definition at line 556 of file core.c.

10.12.3.14 unsigned int mm_session_save (mm_session * session)

save session object on mm_store_path file

Parameters

<i>session</i>	current session object
----------------	------------------------

Returns

0 on success , 1 on failure

Definition at line 515 of file core.c.

10.13 sdl.c File Reference

SDL interface implementation of mastermind.

```
#include <stdio.h>
#include <stdlib.h>
#include <SDL.h>
#include <SDL_ttf.h>
#include <string.h>
#include "util.h"
#include "core.h"
```

Data Structures

- struct [SDL_Table](#)
table struct that contains table dimensions

Macros

- `#define drawSecret() drawCombination(session->secret->val, session->config->guesses, 0)`
draw secret combination on bottom of panel without its score
- `#define drawGuess(p) drawCombination(session->panel[p].combination, p, 1)`
draw user guess in position p with its score
- `#define sdl_print_center(s, x, y, color) sdl_print(s, x, y, color, 0)`
print string in the center of coord x,y
- `#define sdl_print_left(s, x, y, color) sdl_print(s, x, y, color, -1)`
print string with left align of coord x,y

Enumerations

- `enum { TAB_GAME, TAB_SETTINGS }`
window available tabs to draw

Functions

- `void init_sdl ()`
- `void clean ()`
- `unsigned sdl_print (char *s, int x, int y, SDL_Color *color, int align)`
- `unsigned sdl_print_icon (uint16_t c, int x, int y, SDL_Color *color)`
- `void setBg ()`
- `void initTables ()`
- `void initColors ()`
- `int drawTableBottom (SDL_Table *T)`
- `void drawTableTop (SDL_Table *T)`
- `void drawCombination (uint8_t *G, unsigned p, unsigned drawState)`
- `void drawSelector ()`
- `void redraw_settings ()`
- `void redraw_game ()`
- `void redraw ()`
- `int onMouseUp (SDL_MouseButtonEvent e)`
- `int getGuess ()`
- `void iter ()`
- `int main (int argc, char *argv[])`

Variables

- `int SCREEN_HEIGHT = 640`
- `int SCREEN_WIDTH = 480`
- `int SCREEN_HEIGHT_MIN = 320`
- `int SCREEN_WIDTH_MIN = 240`
- `SDL_Window * win = NULL`
- `SDL_Renderer * rend = NULL`
window renderer object
- `TTF_Font * font = NULL`
- `TTF_Font * icons = NULL`
fonts to use
- `mm_session * session = NULL`
current mastermind session object
- `uint8_t * curGuess = NULL`

- combination of last guess combination*
- unsigned `curPos` = 0
- position of cursor on curGuess for keyboard input*
- `SDL_Table` **panel**
- `SDL_Table` **state**
- `SDL_Table` **control**
- `SDL_Table` **play**
- tables object*
- unsigned **case_w**
- unsigned **case_h**
- unsigned **button_w**
- size of tables cases*
- `SDL_Color` * `colors` = NULL
- colors used on drawing combinations*
- unsigned `curTab` = `TAB_GAME`
- Current tab being drawn.*

10.13.1 Detailed Description

SDL interface implementation of mastermind.

Definition in file [sdl.c](#).

10.13.2 Enumeration Type Documentation

10.13.2.1 anonymous enum

window available tabs to draw

Enumerator

TAB_GAME we will draw the game tab

TAB_SETTINGS we will draw the settings tab

Definition at line 31 of file `sdl.c`.

10.13.3 Function Documentation

10.13.3.1 void clean ()

close sdl subsystems and free memory

Definition at line 105 of file `sdl.c`.

10.13.3.2 void drawCombination (uint8_t * G, unsigned p, unsigned drawState)

draw given combination on panel table and its score on state table

Parameters

<i>G</i>	combination array
<i>p</i>	position on panel
<i>drawState</i>	draw combination score from current session

Definition at line 336 of file sdl.c.

10.13.3.3 void drawSelector ()

draw selector icons on panel on current guess position of current session

Definition at line 375 of file sdl.c.

10.13.3.4 int drawTableBottom (SDL_Table * *T*)

draw borders of bottom tables

Definition at line 301 of file sdl.c.

10.13.3.5 void drawTableTop (SDL_Table * *T*)

draw borders of top tables with double case for selector if session still not ended

Definition at line 317 of file sdl.c.

10.13.3.6 int getGuess ()

handle all available events on events pipe

Returns

-1 to restart the session 0 to play current guess 1 if nothing to do

Definition at line 569 of file sdl.c.

10.13.3.7 void init_sdl ()

Init SDL subsystem, create window and load fonts

Definition at line 62 of file sdl.c.

10.13.3.8 void initColors ()

create colors array with current session colors as length

Definition at line 285 of file sdl.c.

10.13.3.9 void initTables ()

recalcualte tables elements dimensions/values using current session settings

Definition at line 254 of file sdl.c.

10.13.3.10 void iter ()

one iteration on main loop, handle available events and exec requested action (play guess, restart session) and redraw if needed

Definition at line 632 of file sdl.c.

10.13.3.11 int onMouseUp (SDL_MouseButtonEvent e)

mouse button up event handler

Returns

-1 to reset session 0 to play current guess 1 to keep listing to events

Definition at line 484 of file sdl.c.

10.13.3.12 void redraw ()

clean renderer and redraw current tab

Definition at line 465 of file sdl.c.

10.13.3.13 void redraw_game ()

draw game tab

Definition at line 436 of file sdl.c.

10.13.3.14 void redraw_settings ()

draw settings tab

Definition at line 391 of file sdl.c.

10.13.3.15 unsigned sdl_print (char * s, int x, int y, SDL_Color * color, int align)

printf text with deined position and color

Parameters

<i>s</i>	text to print
<i>x</i>	x coord
<i>y</i>	y coord
<i>color</i>	pointer to fourground color to use or NULL for default
<i>align</i>	text align to provided position: -1: left align 0: center align 1: right align

Returns

printed text width

Definition at line 130 of file sdl.c.

10.13.3.16 unsigned sdl_print_icon (uint16_t c, int x, int y, SDL_Color * color)

print icon

Parameters

<i>c</i>	unicode o icon to print on icons font
<i>x</i>	x coord
<i>y</i>	y coord
<i>color</i>	poiter to fourground color or NULL to use default color

Returns

printed icon width

Definition at line 180 of file sdl.c.

10.13.3.17 void setBg ()

draw background color on full renderer

Definition at line 244 of file sdl.c.

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