Space Type 1.0

Generated by Doxygen 1.9.6

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Chapter 1

Bug List

File main.c

: No known Bug.

File spacetype_functions.c

No Known Bugs

File spacetype_game.c

No known bug

File spacetype_test.c

No known Bug

File spacetype_train.c

No Known Bug

2 Bug List

Chapter 2

Data Structure Index

2.1 Data Structures

Here	are	the	data	structures	with	brief	descri	otions

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4 Data Structure Index

Chapter 3

File Index

3.1 File List

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

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6 File Index

Chapter 4

Data Structure Documentation

4.1 charCount Struct Reference

This structure stores mistyped characters and their frequency.

#include <spacetype_functions.h>

Data Fields

- · char character
- int count

4.1.1 Detailed Description

This structure stores mistyped characters and their frequency.

4.1.2 Field Documentation

4.1.2.1 character

character

Member 'character' contains the mistyped character

4.1.2.2 count

count

Member 'count' contains the the mistyped character's frequency

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

· spacetype_functions.h

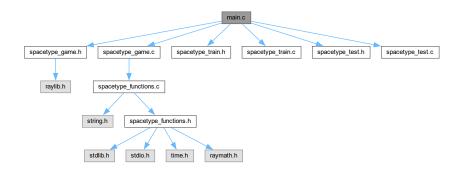
Chapter 5

File Documentation

5.1 main.c File Reference

Main application file of Space Type.

```
#include "spacetype_game.h"
#include "spacetype_game.c"
#include "spacetype_train.h"
#include "spacetype_train.c"
#include "spacetype_test.h"
#include dependency graph for main.c:
```



Functions

• int main ()

Main function of the application.

· void draw_menu ()

Draws main menu for the application.

Variables

Main application variables

• FILE * wrongChars

To store mispressed characters to use in customized train mode.

int screenWidth

screen width for graphical operations

· int screenHeight

screen height for graphical operations

bool exitWindow = false

To govern main application loop.

• bool exitGame = false

To govern game mode loop.

bool sorted

to check if the WrongChars.txt is sorted or not

Main interface variables

Different textures for the main screen and hover, and other graphical components.

• Texture2D cockpitTexture

Background Textures.

- Texture2D cockpitTextureTrain
- Texture2D cockpitTextureTest
- Texture2D cockpitTextureGame
- Texture2D cockpitTextureExit

Main menu textures.

- Font retroFont
- Font regularFont

Main application fonts.

• Texture2D qwertyTexture

keyboard image for tutorial screen

5.1.1 Detailed Description

Main application file of Space Type.

retro-interface typing trainer and game to help boost your typing speed. This project takes its inspration from Typeshala, Ztype and aims for the feels similar to retro-console space games like Space Invadors. SPDX-License-Identifier: LGPL-2.1-or-later

Author

```
Praharsha Adhikari 078bct061.praharsha@pcampus.edu.np
Mukunda Dev Adhikari 078bct049.mukunda@pcampus.edu.np
Pragalbha Acharya 078bct060.pragalbha@pcampus.edu.np
```

Bug: No known Bug.

5.1.2 Function Documentation

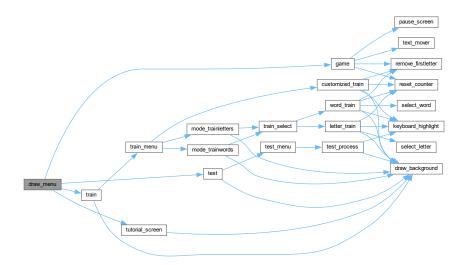
5.1 main.c File Reference

5.1.2.1 draw_menu()

```
void draw_menu ( )
```

Draws main menu for the application.

Draws the main menu of the application by loading the cockpitTexture with mouse control for navigation. Has indicators for hover and mouse click calls the respective function associated with the menu entry. Here is the call graph for this function:

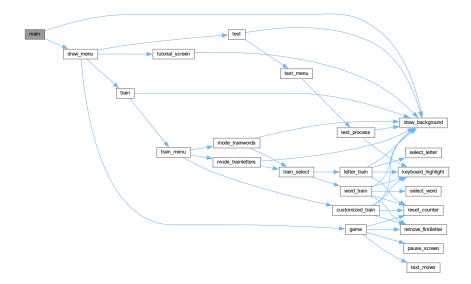


5.1.2.2 main()

int main ()

Main function of the application.

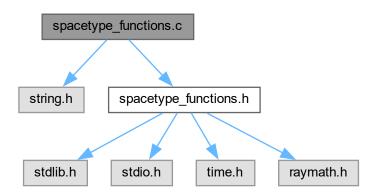
Initializes Screen and audio device. Loads music, fonts and textures. Plays the music, calls the respective function to draw the background and menu. Here is the call graph for this function:



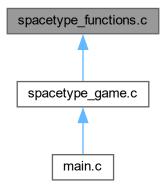
5.2 spacetype_functions.c File Reference

Created functions for this application.

```
#include <string.h>
#include "spacetype_functions.h"
Include dependency graph for spacetype_functions.c:
```



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



Functions

- void remove_firstletter (char word[])
 - Removes the first letter of the word sent.
- void draw_background ()

Draws background in all modes.

• void reset_counter ()

resets variables for required statistics

· void pause screen ()

Creates a pause menu.

· void keyboard_highlight (char a)

hightlights requried letter

• void tutorial_screen ()

Shows a tutorial screeen for touch typing.

Variables

Statistics variables

variables handle counters which are associated with with statistics of Word shooter game and word train mode.

- · char fastestWord [20]
- char slowestWord [20]
- char scoreString [50]
- int SCORE
- float TIME = 10
- float planetTime = 0
- float keysPressed
- float rightKeysPressed
- · float framesCounterForSession
- · float framesCounterForWord
- float fastestWordFrames
- float slowestWordFrames
- bool gapMeasured
- bool exitPause = true

Background and main interface variables

handle different elements related to main interface of the program like background textures, music, scale, etc

· float scale

Image scale for the uniformity.

float movingDown

Variable to govern infinitely scrolling background.

float movingPlanets

Variable to govern moving planets.

float mover

Variable which controls the speed of the word in game mode.

Music music

background music

• Texture2D spaceTexture

Space Background used in infinite scroll background.

Texture2D planetTextures [3]

Array of 3 different planet images to display on background.

Texture2D bulletTexture

Texture of Bullet used in game mode.

Texture2D spaceshipTexture

Texture of spaceship in game mode.

• Texture2D cockpitTextureKeyboard

Background Texture.

Extern variables from main

different variables initialized before needed for this portion

· int screenWidth

screen width for graphical operations

• int screenHeight

screen height for graphical operations

- Font retroFont
- bool exitGame

To govern game mode loop.

- · bool sorted
- FILE * wrongChars

To store mispressed characters to use in customized train mode.

• Texture2D qwertyTexture

keyboard image for tutorial screen

5.2.1 Detailed Description

Created functions for this application.

Author

Praharsha Adhikari 078bct061.praharsha@pcampus.edu.np

Bug No Known Bugs

5.2.2 Function Documentation

5.2.2.1 draw_background()

```
void draw_background ( )
```

Draws background in all modes.

Draws the infinitely scrolling space background with moving planets.

5.2.2.2 keyboard_highlight()

```
void keyboard_highlight ( {\tt char} \ a \ )
```

hightlights requried letter

the key you need to press in the keyboard for Train mode

Parameters

a the letter which needs to be highlighted

5.2.2.3 pause screen()

```
void pause_screen ( )
```

Creates a pause menu.

a pause menu when called. Has options to either resume the game or return back to main menu

5.2.2.4 remove_firstletter()

Removes the first letter of the word sent.

Parameters

word[] the word sent to have its first letter removed

5.2.2.5 reset_counter()

```
void reset_counter ( )
```

resets variables for required statistics

all the variables like score, fastestword, slowest word, etc. that are used to calculate statistics during word practice and Game mode

5.2.2.6 tutorial_screen()

```
void tutorial_screen ( )
```

Shows a tutorial screeen for touch typing.

Shows the touch typing finger placement in keyboard when Help button is pressed in main menu Here is the call graph for this function:

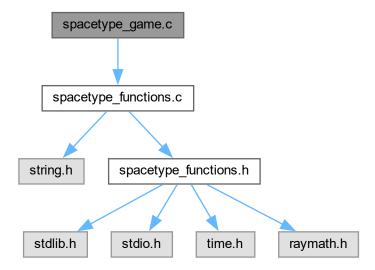


5.3 spacetype_functions.h

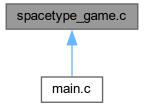
5.4 spacetype_game.c File Reference

Word Shooter Game for Spacetype.

#include "spacetype_functions.c"
Include dependency graph for spacetype_game.c:



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



Functions

- void text_mover (Vector2 *wordPos, Rectangle playerPos, Vector2 gap, float time)
 Moves the word toward the player.
- void game ()

main function for game mode

Variables

Main gameplay variables

These variables handle different aspects related to the main gameplay.

- char * words []
 - List of words to choose from for the game.
- char word [20]

word which is presented to type

· char wordStored [20]

stores the presented word to later compare with fastestword and slowestword

• int sizeOfArray = sizeof(words) / sizeof(words[0])

for calculating total number of words*/

Vector2 gap = {}

Shortest distance between word and spaceship*/.

Vector2 wordPos

position of word as it falls down

• const int fontSize = 25

Fonsize declaration for uniformity of fontsize.

• float **angle** = 0

Angle of word to have it fall towards player.

• float prevAngle = 0

Angle of the spaceship.

• float movingPlanets = 0

Denotes which planet will be on screen.

• float movingDown = 0

Parameters which makes space texture scroll infinitely*/.

• bool **GAME_OVER** = false

boolean to check game over condition

Bullet related variables

These variables handle different aspects related to bullet which destroys the word when it is finished being typed.

· Sound shoot

Audio played when bullet is used.

Rectangle bulletPos

Bullet Position.

• bool bullet = false

indicates whether bullet needs to be shoot or not

· float bulletAngle

Determine angle at which bullet needs to be thrown depending word position.

• float bulletMover = 0

To indicate speed of the bullet.

Extern variables from main

different variables initialized before needed for this portion

• Music music

background music

int screenWidth

screen width for graphical operations

int screenHeight

screen height for graphical operations

Font retroFont

5.4.1 Detailed Description

Word Shooter Game for Spacetype.

Author

Praharsha Adhikari 078bct061.praharsha@pcampus.edu.np

Bug No known bug

5.4.2 Function Documentation

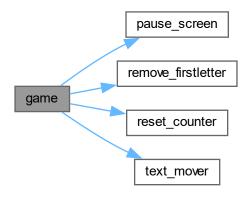
5.4.2.1 game()

void game ()

main function for game mode

Handles everything regarding spaceship shoot game. Resets variables specific to the game and general by calling reset_counter. Draws the graphics regarding spaceship falling words and bullets. Handles the gameplay mechanics and shows a gameover screen when required. Resetting in case of new game from menu

Initialize variables and texturesHere is the call graph for this function:



5.4.2.2 text_mover()

Moves the word toward the player.

Parameters

wordPos	Position of generated word
playerPos	Position of spaceship
gap	Shortest distance between word and spaceship
time	Set time for the word to hit the player

5.4.3 Variable Documentation

5.4.3.1 words

char* words[]

Initial value:

```
"apple", "ant", "airplane", "banana", "book", "boat", "cat", "cow", "car", "dog", "desk", "dolphin",
   "elephant", "egg", "earth", "fish", "flamingo", "frog", "giraffe", "goat", "grapes", "hat", "horse",
   "house", "igloo", "icecream", "insect", "jacket", "jaguar", "juice", "kangaroo", "kite", "key",
   "lion", "leopard", "lamp", "monkey", "mouse", "mango", "night", "nest", "napkin", "octopus",
   "ostrich", "onion", "pear", "panda", "pig", "queen", "quail", "question", "rabbit", "rhinoceros",
   "ring", "snake", "snail", "sock", "tiger", "taco", "table", "unicorn", "umbrella", "vase",
   "vegetable", "whale", "wolf", "watermelon", "xray", "xylophone", "yak", "yoyo", "zipper", "zoo"
}
```

List of words to choose from for the game.

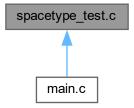
5.5 spacetype game.h

```
00001 #include <raylib.h>
00002
00003 void game();
00004 void text_mover(Vector2 *wordPos, Rectangle playerPos, Vector2 gap, float time);
```

5.6 spacetype_test.c File Reference

Test Mode of Space Type.

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



Functions

- void test ()
 - main function for test mode
- · void test menu ()
 - main menu for test screen
- void test_process (char test_text[])

Handles the typing test process.

Variables

Passages for Test mode

char text1 [300] = {"Wealth, fame, power. Gold Roger, the King of the Pirates, attained everything this
world has to offer. And so, many men head for the Grand Line to find the great treasure he left behind, the
One Piece. The world has truly entered a Great Pirate Era!"}

Passages for Test Mode.

- char **text2** [381] = {"The Tale of Jiraiya the Gallant. Now it'll end a bit better, I hope. The final chapter. I'll call it: Frog at the bottom of the well drifts off into the great ocean. Just barely glorious. But glorious indeed. Now I suppose it's about time I put down my pen. Oh, right. What should I name the sequel? I wonder. Let's see: The Tale of Naruto Uzumaki. Yes, that has a nice ring to it."}
- char text3 [450] = {"A late 20th century trend in typing, primarily used with devices with small keyboards (such as PDAs and Smartphones) is thumbing or thumb typing. This can be accomplished using one or both thumbs. Similar to desktop keyboards and input devices, if a user overuses keys which need hard presses and/or have small and unergonomic layouts, it could cause thumb tendonitis or other repetitive strain injury."}
- char text4 [450] = {"Today, historians relate that, as a general rule, buying and selling securities was
 very much unorganized before the year 1792. Every person who owned a security faced the problem of
 finding interested buyers who might consider the purchase of a debt-free investment. This meant most
 people were somewhat slow in investing in stocks and bonds because these securities could not readily
 be converted into money."}
- char text5 [287] = {"The Master of Business Administration (MBA or M.B.A.) degree originated in the
 United States. The core courses in an MBA program cover various areas of business such as accounting, applied statistics, business law, finance, managerial economics, management, entrepreneurship &
 marketing."}
- char text6 [438] = {"When we talk about motivating others, the justification is the end result (either we want to avoid the pain or go towards pleasure) or what we want to get the person to do. How we achieve the end result, are our alternatives. As a manager, we need to understand the other person's justification and then come up with alternatives. We may then choose the right alternative. Typically people stop at this level of analysis and start to act."}
- char **text7** [456] = {"A data entry clerk is a member of staff employed to enter or update data into a computer system. Data is often entered into a computer from paper documents using a keyboard. The keyboards used can often have special keys Alt, Ctrl, Fn, Shift multiple colors to help in the task & speed up the work. Proper ergonomics at the workstation is a common topic considered. The Data Entry Clerk may also use a mouse, and a manually-fed scanner may be involved."}
- char text8 [530] = {"An ever-growing number of complex rules plus hard-to-cope-with regulations are now
 being legislated from state to state. Key federal regulations were formulated by the FDA, FTC, and the
 CPSC. Each of these federal agencies serves a specific mission. One example: Laws sponsored by the
 Office of the Fair Debt Collection Practices prevent an agency from purposefully harassing clients in serious
 debt. The Fair Packaging and Labeling Act makes certain that protection from misleading packaging of
 goods is guaranteed to each buyer."}
- char text9 [400] = {"Business casual is an ambiguously defined Western dress code that is generally
 considered casual wear but with smart (in the sense of 'well dressed') components of a proper lounge suit
 from traditional informal wear, adopted for white-collar workplaces. This interpretation typically including
 dress shirt, necktie, & trousers, but worn with an odd-colored blazer or a sports coat instead."}
- char text10 [520] = {"Many touch typists also use keyboard shortcuts or hotkeys when typing on a computer. This allows them to edit their document without having to take their hands off the keyboard to use a mouse. An example of a keyboard shortcut is pressing the Ctrl key + the S key to save a document as they type, or the Ctrl key + the Z key to undo a mistake. Many experienced typists can feel or sense when they have made an error & can hit the Backspace key & make the correction with no increase in time between keystrokes."}

Extern variables from main

different variables initialized before needed for this portion

- Music music
 background music
- int screenWidth

screen width for graphical operations

- int screenHeight screen height for graphical operations
- Font retroFont
- Font regularFont
- Texture2D cockpitTexture
- Texture2D cockpitTextureKeyboard

Textures for background.

General variables for Test process

- bool exitTest
- bool exitTestProcess
- char input [550] = {}
- · int check

5.6.1 Detailed Description

Test Mode of Space Type.

Author

Pragalbha Acharya 078bct060.pragalbha@pcampus.edu.np

Bug No known Bug

5.6.2 Function Documentation

5.6.2.1 test()

void test ()

main function for test mode

Initializes the background texture, continues the background music, draws the background and calls test_menu function for further navigation Here is the call graph for this function:

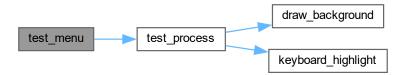


5.6.2.2 test_menu()

```
void test_menu ( )
```

main menu for test screen

Draws the menu for the test mode. Gives the user the option to choose the difficulty that they want their test to be in. Here is the call graph for this function:



5.6.2.3 test_process()

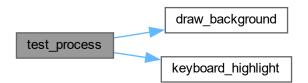
Handles the typing test process.

This function divides the large text into smaller parts, and displays it on the screen to make it easier for the user. Gets the key pressed by the user, checks with the letter from the text, and highlights if its correct. The second part of the text only displayed once the displayed part is enterred correctly. Statistics like typing speed, accuracy are shown at the end.

Parameters

test_text	Indicates which passage is to be displayed
-----------	--

Here is the call graph for this function:



5.6.3 Variable Documentation

5.6.3.1 cockpitTextureKeyboard

Texture2D cockpitTextureKeyboard

Textures for background.

Background Texture.

5.6.3.2 text1

char text1[300] = {"Wealth, fame, power. Gold Roger, the King of the Pirates, attained everything
this world has to offer. And so, many men head for the Grand Line to find the great treasure
he left behind, the One Piece. The world has truly entered a Great Pirate Era!"}

Passages for Test Mode.

These string contains various texts of varying difficulty and types for the test mode.

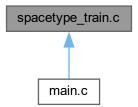
5.7 spacetype_test.h

```
00001 void test_process(char test_text[]);
00002 void test_menu();
00003 void test();
00004
```

5.8 spacetype_train.c File Reference

Word and Letter Typing train mode.

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



Functions

```
• void train ()
```

main function for train mode

• void train menu ()

main menu for train screen

void mode_trainletters ()

Letter Train sub menu.

· void mode trainwords ()

Word Train sub menu.

• void letter_train ()

Handles processes regarding training typing letters.

· void word_train ()

Handles processes regarding training typing words.

void customized_train ()

Handles processes regarding cuztomized train mode.

void train select ()

Option menu for choosing rows for both letter mode and word mode.

• void select letter ()

function which selects letter to display for letter train process

void select word ()

function which selects words to display for word train process

Variables

Letter Train variables

3 character arrays to store characters of respective keyboard rows.

- char **TopRowLetters** [10] = {'q', 'w', 'e', 'r', 't', 'y', 'u', 'i', 'o', 'p'}
- char MiddleRowLetters [9] = {'a', 's', 'd', 'f', 'g', 'h', 'j', 'k', 'l'}
- char BottomRowLetters [7] = {'z', 'x', 'c', 'v', 'b', 'n', 'm'}
- char RequiredLetter

Stores letter which will be displayed in Letter Train process.

Word Train variables

List of Words from toprow, middlerow and bottomrow to choose from when selecting word

- char **TopRowWords** [][10] = {"queer", "wrought", "erode", "trope", "troupe", "youth", "utopia", "irony", "outhouse", "power"}
- char MiddleRowWords [][10] = {"lad", "slade", "glass", "fade", "grade", "hall", "jade", "klaus", "lathe"}
- char **BottomRowWords** [][10] = {"zoner", "xerox", "change", "vought", "broom", "noob", "mooncover"}
- char * customizedWords []
- char RequiredWord [10]

Boolean to control different modes and screen

Different booleans to control training process and also to indicatet which row is chosen for respective train modes

- bool exitTrainWords
- bool exitTrainLetters
- · bool MiddleRow
- bool TopRow
- bool BottomRow
- bool exitTrainProcess
- bool letterinput

- bool exitTrain
- bool trainMode
- bool wordinput
- bool exitResult

Extern variables from main

different variables initialized before that were needed for this portion

• Music music

background music

int screenWidth

screen width for graphical operations

· int screenHeight

screen height for graphical operations

- Font retroFont
- Texture2D cockpitTexture

Background Textures.

• Texture2D cockpitTextureKeyboard

Background Texture.

• char wordStored [20]

stores the presented word to later compare with fastestword and slowestword

5.8.1 Detailed Description

Word and Letter Typing train mode.

Author

Mukunda Dev Adhikari 078bct049.mukunda@pcampus.edu.np

Bug No Known Bug

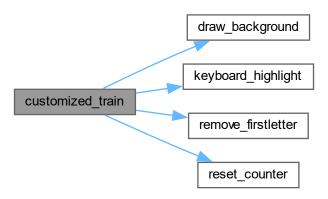
5.8.2 Function Documentation

5.8.2.1 customized_train()

```
void customized_train ( )
```

Handles processes regarding cuztomized train mode.

This function is a child of word_train. So, it does everything the word_train does but the words it provides to train you are customized and contains the letters that you have typed wrong the most. It is done by storing wrongly typed letters and comparing them with the letters in the word that will be displayed. Here is the call graph for this function:

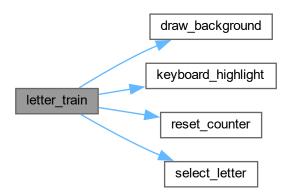


5.8.2.2 letter_train()

```
void letter_train ( )
```

Handles processes regarding training typing letters.

The function that handles resetting of variables by calling reset_counter, and contains the loop which selects the new letter (using select_letter) and a nested loop to check if the input letter matches with the displayed one. Here is the call graph for this function:

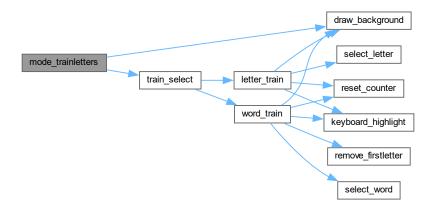


5.8.2.3 mode_trainletters()

```
void mode_trainletters ( )
```

Letter Train sub menu.

function that handles lettere practice mode. Clears all boolean related rows and train loops and calls the function which draws selection menu for rows. Here is the call graph for this function:

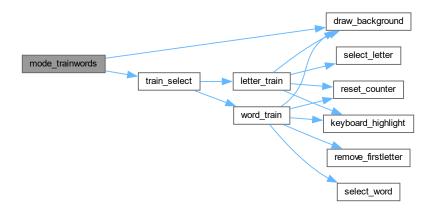


5.8.2.4 mode_trainwords()

void mode_trainwords ()

Word Train sub menu.

The function that handles words practice mode. Clears all boolean related rows and train loops and calls the train_select function which draws selection menu for rows. Here is the call graph for this function:



5.8.2.5 select_letter()

```
void select_letter ( )
```

function which selects letter to display for letter train process

letter using the three choices, random number generator and a switch case based on the choice and number generated. Stores that letter in RequiredLetter.

5.8.2.6 select_word()

```
void select_word ( )
```

function which selects words to display for word train process

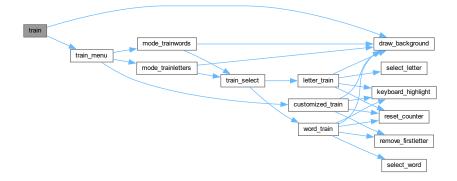
Selects a word using the three choices, random number generator and a switch case based on the choice and number generated. Stores that word in RequiredWord.

5.8.2.7 train()

```
void train ( )
```

main function for train mode

the background texture, continues the background music and calls train_menu function for further navigation Here is the call graph for this function:

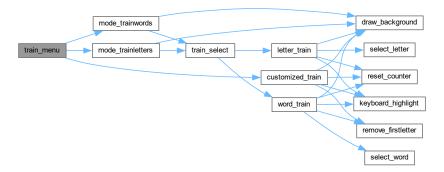


5.8.2.8 train_menu()

void train_menu ()

main menu for train screen

Draws the menu for the train mode. Gives the user the option to choose between practicing letters or practicing words. Here is the call graph for this function:

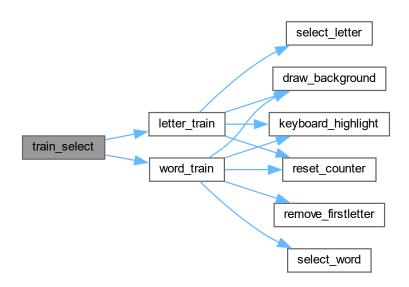


5.8.2.9 train_select()

void train_select ()

Option menu for choosing rows for both letter mode and word mode.

This function generates the option menu for the user to choose the rows that he wants to practice. Checkbox indicator are present to indicate the rows chose. letter_train or word_train are called based on the user's previous selection Here is the call graph for this function:

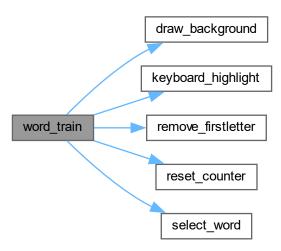


5.8.2.10 word train()

```
void word_train ( )
```

Handles processes regarding training typing words.

The function that handles resetting of variables by calling reset_counter, and contains the loop which selects the new word (using select_word) and a nested loop which ends when the user has finished enterring the word. It calls remove_firstletter each time the letter input matches the letter displayed. Once the user chooses to leave the train process, by pressing ESC, a stats screen is displayed which shows their WPM, fastest word, slowest word, etc. Here is the call graph for this function:



5.8.3 Variable Documentation

5.8.3.1 cockpitTextureKeyboard

Texture2D cockpitTextureKeyboard [extern]

Background Texture.

Background Texture.

5.8.3.2 customizedWords

```
char* customizedWords[]
```

Initial value:

```
"abstract", "conjecture", "elixir", "fervent", "gargantuan", "haphazard", "intrepid", "jubilant",
"kinetic", "luminous", "maverick", "nocturnal", "orchid", "predator", "quagmire", "resilient",
"saunter", "turbulent", "unwavering", "vortex", "whimsical", "xenon", "yellow", "zephyr", "allegory",
"benevolent", "credence", "demeanor", "enigma", "fractal", "gusto", "hiatus", "intricacy",
"jubilation", "kaleidoscope", "lucid", "magnitude", "nimble", "opulence", "pertinent",
"quintessential", "responsive", "saturate", "tenacity", "unbridled", "volatile", "whirlwind",
"xylophone", "yacht", "zodiac", "acumen", "bazaar", "clarity", "diligent", "empathy", "flourish",
"graceful", "harmony", "intuition", "jovial", "klutz", "leverage", "mystique", "nostalgia",
"overture", "persistence", "quirk", "radiance", "savvy", "transcend", "unison", "vivid", "whisper",
"xylograph", "yearning", "zephyr", "affinity", "bucolic", "clandestine", "disparate", "embellish",
"fluctuate", "glossary", "hiatus", "intrepid", "jubilant", "knick-knack", "legerdemain",
"magnanimous", "nihilistic", "opulent", "provocative", "quintessence", "rhapsodic", "solitude",
"tenacity", "unabashed", "versatility", "whirlwind", "xenophobe", "yen"
```

5.9 spacetype_train.h

```
00001 void train();
00002 void train_menu();
00003 void mode_trainletters();
00004 void mode_trainwords();
00005 void letter_train();
00006 void customized_train();
00007 void select_letter();
00008 void select_word();
00009 void train_select();
00010 void customized_train();
```

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