

## Python Combat

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# Chapter 1

## Python-Combat

A Web Platform that allows individuals to learn python programming in an enjoyable way, made as Course Project for CS251 - Software Systems Laboratory.

Description of Project can be found [here](#)

### 1.1 Instructions

- Click on **Start** button on the home page to start *Combat*
- Choose the level which you want to play. There are 5 levels in the game
- You will see a tutorial about the programming concepts of **python** which are being used in the level
- Click on **Play Now** -> **Start Combat** to play in that Level
- Instructions and Logger will be displayed along the arena and code editor
- You have to follow the instructions and help our *Warrior* achieve his goal!

### 1.2 Levels

#### 1.2.1 Level 1 - Collect the Diamonds

- Python Variables
- Training Arena

#### 1.2.2 Level 2 - Key to Success

- Conditional statements in Python
- Fire Arena :fire:

### 1.2.3 Level 3 - Loop made easy

- Loops in Python
- Icy Arena :snowflake:

### 1.2.4 Level 4 -

- Functions

### 1.2.5 Level 5 -

- Lists

## 1.3 Features

- 5 Levels with different programming concepts to battle
- **Logger** with success/failure messages and `print` statements for debugging
- **Code Editor**
  - Syntax highlighting
  - Able to get code from uploaded file
  - Suggestions/Auto-completions
- **Arena**
  - Dynamic Configuration
  - Each battle sets up a different placements of objects on reloading
  - Each Battle fought on different arena settings
- Used **Sphinx** for Report and Documentation

---

Created with :heart: by [Atishay](#), [Megh](#) & [Avadhoot](#)

## Chapter 2

# Namespace Index

### 2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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## Chapter 3

# File Index

### 3.1 File List

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## Chapter 4

# Namespace Documentation

### 4.1 conf Namespace Reference

#### Variables

- string `project` = 'Python Combat'
- string `copyright` = '2022, Atishay Jain, Megh Gohil, Avadhoot Jadhav'
- string `author` = 'Atishay Jain, Megh Gohil, Avadhoot Jadhav'
- string `version` = '1.1'
- string `release` = '25 November, 2022'
- list `extensions`
- list `templates_path` = ['.templates']
- string `source_suffix` = '.rst'
- string `master_doc` = 'index'
- string `js_source_path` = '../level1/'
- string `primary_domain` = 'js'
- string `language` = 'en'
- list `exclude_patterns` = []
- list `html_static_path` = [".static"]
- `pygments_style` = None
- string `html_theme` = 'alabaster'
- string `htmlhelp_basename` = 'PythonCombatdoc'
- dictionary `latex_elements`
- list `latex_documents`
- list `man_pages`
- list `texinfo_documents`
- string `epub_title` = `project`
- list `epub_exclude_files` = ['search.html']

#### 4.1.1 Variable Documentation

##### 4.1.1.1 author

```
string conf.author = 'Atishay Jain, Megh Gohil, Avadhoot Jadhav'
```

##### 4.1.1.2 copyright

```
string conf.copyright = '2022, Atishay Jain, Megh Gohil, Avadhoot Jadhav'
```

#### 4.1.1.3 epub\_exclude\_files

```
list conf.epub_exclude_files = ['search.html']
```

#### 4.1.1.4 epub\_title

```
string conf.epub_title = project
```

#### 4.1.1.5 exclude\_patterns

```
list conf.exclude_patterns = []
```

#### 4.1.1.6 extensions

```
list conf.extensions
```

**Initial value:**

```
1 = [  
2     'sphinx.ext.autodoc',  
3     'sphinx.ext.doctest',  
4     'sphinx.ext.coverage',  
5     'sphinx.ext.mathjax',  
6     'sphinx.ext.ifconfig',  
7     'sphinx.ext.viewcode',  
8     'sphinx.ext.githubpages',  
9     'sphinx_js'  
10 ]
```

#### 4.1.1.7 html\_static\_path

```
list conf.html_static_path = [".static"]
```

#### 4.1.1.8 html\_theme

```
string conf.html_theme = 'alabaster'
```

#### 4.1.1.9 htmlhelp\_basename

```
string conf.htmlhelp_basename = 'PythonCombatdoc'
```

#### 4.1.1.10 js\_source\_path

```
string conf.js_source_path = '../level1/'
```

#### 4.1.1.11 language

```
string conf.language = 'en'
```

#### 4.1.1.12 latex\_documents

```
list conf.latex_documents
```

**Initial value:**

```
1 = [  
2     (master_doc, 'PythonCombat.tex', 'Python Combat Documentation',  
3       'Atishay Jain, Megh Gohil, Avadhoot Jadhav', 'manual'),  
4 ]
```

#### 4.1.1.13 latex\_elements

dictionary conf.latex\_elements

Initial value:

```
1 = {
2     # The paper size ('letterpaper' or 'a4paper').
3     #
4     # 'papersize': 'letterpaper',
5
6     # The font size ('10pt', '11pt' or '12pt').
7     #
8     # 'pointsize': '10pt',
9
10    # Additional stuff for the LaTeX preamble.
11    #
12    # 'preamble': "",
13
14    # Latex figure (float) alignment
15    #
16    # 'figure_align': 'htbp',
17 }
```

#### 4.1.1.14 man\_pages

list conf.man\_pages

Initial value:

```
1 = [
2     (master_doc, 'pythoncombat', 'Python Combat Documentation',
3      [author], 1)
4 ]
```

#### 4.1.1.15 master\_doc

string conf.master\_doc = 'index'

#### 4.1.1.16 primary\_domain

string conf.primary\_domain = 'js'

#### 4.1.1.17 project

string conf.project = 'Python Combat'

#### 4.1.1.18 pygments\_style

conf.pygments\_style = None

#### 4.1.1.19 release

string conf.release = '25 November, 2022'

#### 4.1.1.20 source\_suffix

string conf.source\_suffix = '.rst'

#### 4.1.1.21 templates\_path

list conf.templates\_path = ['.templates']

#### 4.1.1.22 texinfo\_documents

```
list conf.texinfo_documents
```

**Initial value:**

```
1 = [
2     (master_doc, 'PythonCombat', 'Python Combat Documentation',
3      author, 'PythonCombat', 'One line description of project.',
4      'Miscellaneous'),
5 ]
```

#### 4.1.1.23 version

```
string conf.version = '1.1'
```

## 4.2 Sync Namespace Reference

### Functions

- undefined [load](#) (String *id*, Function *success*, Function *error*)
- undefined [store](#) (String *id*, Object *data*, Function *success*, Function *error*)

### 4.2.1 Detailed Description

Module for loading and storing data

### 4.2.2 Function Documentation

#### 4.2.2.1 load()

```
undefined Sync::load (
    String id,
    Function success,
    Function error )
```

Loads an resource

##### Parameters

<i>id</i>	the GUID of the resource
<i>success</i>	callback to be executed with the data on suceess
<i>error</i>	callback to be executed with error description in case of failure Loads an resource

#### 4.2.2.2 store()

```
undefined Sync::store (
    String id,
    Object data,
    Function success,
    Function error )
```

Store an resource

##### Parameters

<i>id</i>	the GUID of the resource
<i>data</i>	the resource
<i>success</i>	callback to be executed when the store operation has completed successfully

## Parameters

<i>error</i>	callback to be executed with error description in case of failure Store an resource
--------------	-------------------------------------------------------------------------------------





## Chapter 5

# File Documentation

### 5.1 doxygen.js File Reference

#### Functions

- function [Section](#) ()
- function [writeLine](#) (line)
- [fs.readFile](#) (process.argv[2], 'utf8', function(err, data) { var lines=data.split("\n");var comment=/^\s \*\\var directive=/@(\w+)\s+(.\*)\$/;var inside=false;var section=new [Section](#)();lines.forEach(function(line) { if(line.match(comment)) { var d=line.match(directive);if(d) { var handle=Section.prototype['handle↵\_'+d[1]]||[Section.prototype.handle\\_line](#);handle.call(section, line);} else { [section.handle\\_line](#)(line);} inside=true;} else if(inside) { [writeLine](#)([section.Generate](#)());inside=false;section=new [Section](#)();} }));

#### Variables

- var [fs](#)
- var [type](#) = /^(\s+)\s\*\s\*@param\s+(\w\*)\s+(\.+?)\s+(.\*)\$/
- var [param](#) = /^(\s+)\s\*\s\*@param\s+(\.+?)\s/
- var [resultType](#) = /^(\s+)\s\*\s\*@return\s+(\w\*)\s+(\.+?)\s\$/
- [Section](#) prototype [handle\\_function](#)
- [Section](#) prototype [handle\\_param](#)
- [Section](#) prototype [handle\\_return](#)
- [Section](#) prototype [Generate](#)
- [Section](#) prototype [handle\\_line](#)

#### 5.1.1 Function Documentation

##### 5.1.1.1 [readFile\(\)](#)

```
fs.readFile (
  process.  argv[2],
  'utf8' ,
  function(err, data) { var lines=data.split('\n');var comment=/^\s *\\/\\ var
directive=/@(\w+)\s+(.*)$/;var inside=false;var section=new Section();lines.forEach(function(line)
{ if(line.match(comment)) { var d=line.match(directive);if(d) { var handle=Section.prototype['handle↵_'+d[1]]||Section.prototype.handle\_line;handle.call(section, line);} else { section.handle\_line(line);}
inside=true;} else if(inside) { writeLine(section.Generate());inside=false;section=new Section();}
});} )
```

### 5.1.1.2 Section()

```
function Section ( )
```

### 5.1.1.3 writeLine()

```
function writeLine (
    line )
```

## 5.1.2 Variable Documentation

### 5.1.2.1 fs

```
var fs
Initial value:
= require('fs')
var functionName = /^\\s+\\/\\/\\/\\s+@function\\s+(.*)$/
```

### 5.1.2.2 Generate

**Section** prototype Generate

**Initial value:**

```
= function () {
    var doc = [];
    this.namespaces.forEach(function (namespace) {
        doc.push('namespace ' + namespace + '\\n');
    });
    this.comments.forEach(function (c) {
        doc.push(c);
    });
    var args = [];
    this.args.forEach(function (argument) {
        args.push(argument.type + ' ' + argument.name);
    });
    if (this.name) {
        doc.push(this.result + ' ' + this.name + '(' + args.join(' ', ' ') + ');');
    }
    this.namespaces.forEach(function (namespace) {
        doc.push('{}\\n');
    });
    return doc.join('\\n');
}
```

### 5.1.2.3 handle\_function

**Section** prototype handle\_function

**Initial value:**

```
= function (line) {
    this.namespaces = line.match(functionName)[1].split('.') || [];
    this.name = this.namespaces.pop();
}
```

### 5.1.2.4 handle\_line

**Section** prototype handle\_line

**Initial value:**

```
= function (line) {
    this.comments.push(line);
}
```

### 5.1.2.5 handle\_param

Section prototype handle\_param

Initial value:

```
= function (line) {
    var paramType = 'Object';
    var name = "";
    var m = line.match(type);
    var r = line;
    if (m) {
        paramType = m[2];
        name = m[3];
        r = m[1] + '
    }
    else {
        m = line.match(param);
        name = m[2];
    }
    this.args.push({name: name, type: paramType});
    this.comments.push(r);
}
```

### 5.1.2.6 handle\_return

Section prototype handle\_return

Initial value:

```
= function (line) {
    this.result = 'undefined';
    var m = line.match(resultType);
    var r = line;
    if (m) {
        this.result = m[2];
        r = m[1] + '
    }
    this.comments.push(r);
}
```

### 5.1.2.7 param

```
var param = /^(\s+)\s\/\s@\sparam\s+(.?)\s/
```

### 5.1.2.8 resultType

```
var resultType = /^(\s+)\s\/\s@\sreturn\s+(\w+)\s+(\s+.*?)$/
```

### 5.1.2.9 type

```
var type = /^(\s+)\s\/\s@\sparam\s+(\w+)\s+(\s+.*?)$/
```

## 5.2 level1/level1.js File Reference

Header file for Several Data Structures.

### Functions

- function [create\\_arena](#) ()
- document [ready](#) (function() { [create\\_arena](#)() }) [change](#)

### Variables

- var [total\\_gems](#) = 0
- var [pos\\_x](#) = 0
- var [pos\\_y](#) = 0
- var [reloaded](#) = true

## 5.2.1 Detailed Description

Header file for Several Data Structures.

### Author

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### Version

0.1

### Date

2022-09-25

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## 5.2.2 Function Documentation

### 5.2.2.1 create\_arena()

```
function create_arena ( )
```

### 5.2.2.2 ready()

```
document ready (
    function() { create_arena() } )
```

## 5.2.3 Variable Documentation

### 5.2.3.1 pos\_x

```
var pos_x = 0
```

### 5.2.3.2 pos\_y

```
var pos_y = 0
```

### 5.2.3.3 reloaded

```
var reloaded = true
```

### 5.2.3.4 total\_gems

```
var total_gems = 0
```

## 5.3 level1/out/scripts/linenumber.js File Reference

## 5.4 out/scripts/linenumber.js File Reference

## 5.5 level1/out/scripts/prettify/Apache-License-2.0.txt File Reference

### Functions

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## 5.5.1 Function Documentation

### 5.5.1.1 [and\(\)](#) [1/3]

```
and (
    b )
```

### 5.5.1.2 [and\(\)](#) [2/3]

```
and (
    c )
```

### 5.5.1.3 [and\(\)](#) [3/3]

```
and (
    d )
```

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direct or to cause the direction or management of such whether by contract or or (

ii )

#### 5.5.1.10 or() [2/2]

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iii )

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## 5.6.1 Function Documentation

### 5.6.1.1 and() [1/3]

```
and (
    b )
```

### 5.6.1.2 and() [2/3]

```
and (
    c )
```

### 5.6.1.3 and() [3/3]

```
and (
    d )
```

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```
s ) const
```

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`i` )

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#### 5.6.1.9 *or()* [1/2]

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#### 5.6.1.10 *or()* [2/2]

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#### 5.6.1.11 *work()*

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#### 5.6.1.12 *Work()*

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## 5.7 level1/out/scripts/prettify/lang-css.js File Reference

## Functions

- **PR registerLangHandler** (PR.createSimpleLexer([["pln",/^[^\\t\\n\\r\\f]+/, **null**],["str",/^(?![^\\n\\f\\r\\"]|\\(?:\\r\\n?|\\n|\\f|\\[\\S\\s]) \*/),**null**],["str",/^(?![^\\n\\f\\r\\"]|\\(?:\\r\\n?|\\n|\\f|\\[\\S\\s]) \*/),**null**],["lang-css-str",/^[^url\\(\\([^\"]\*)\\)]/i])
- **PR PR registerLangHandler** (PR.createSimpleLexer([,],["kwd",/^(?![\_a-z]|\\[\\da-f]+)?(?:[\\w-]|\\\\\\[\\da-f]+)? \*/i)],["css-kw"])

## Variables

- $PR_i$
- $PR_{null}$

### 5.7.1 Function Documentation

### 5.7.1.1 registerLangHandler() [1/2]

```
PR registerLangHandler ( )
```

### 5.7.1.2 registerLangHandler() [2/2]

```
PR PR registerLangHandler (
    PR. createSimpleLexer[ ], [ ["kwd", /^-?(?:[_a-z]|\[\da-f\]+?) (?:[\w-]|\[\da-f\]+?)
*/i]] )
```

## 5.7.2 Variable Documentation

### 5.7.2.1 i

```
PR i
```

### 5.7.2.2 null

```
PR null
```

## 5.8 out/scripts/prettify/lang-css.js File Reference

### Functions

- [PR registerLangHandler](#) (PR.createSimpleLexer([["pln",/^[\t\n\f\r]+/, [null](#)," \t\r\n"],[["str",/^(?:[^\\n\f\r"]|\\(?:\r\n?|\n|f)|\\[S\s]) \*/',null],["str",/^(?:[^\\n\f\r"]|\\(?:\r\n?|\n|f)|\\[S\s]) \*/',[null](#)],["lang-css-str",/^url\(\s\*("[^"]\*"|'[^']\*'|[^'"]\*)\s\*\)/i]
- [PR PR registerLangHandler](#) (PR.createSimpleLexer([ ],[["kwd",/^-?(?:[\_a-z]|\[\da-f\]+?) (?:[\w-]|\[\da-f\]+?) \*/i]],["css-kw"])

### Variables

- [PR i](#)
- [PR null](#)

## 5.8.1 Function Documentation

### 5.8.1.1 registerLangHandler() [1/2]

```
PR registerLangHandler ( )
```

### 5.8.1.2 registerLangHandler() [2/2]

```
PR PR registerLangHandler (
    PR. createSimpleLexer[ ], [ ["kwd", /^-?(?:[_a-z]|\[\da-f\]+?) (?:[\w-]|\[\da-f\]+?)
*/i]] )
```

## 5.8.2 Variable Documentation

5.8.2.1 `i``PR i`5.8.2.2 `null``PR null`

## 5.9 level1/out/scripts/prettify/prettify.js File Reference

## Functions

- function `k` (O,["default-code"])
- `k`(x([[["pIn",/^\\s+/, `q`,"\\t\\r\\n"],["atv",/^(?:\"[^\"]\*\"|'[^']\*')/;,`q`,"\""]],["tag",/^<V?[a-z](?:[w-:] \*w)?|V?>\$/i],["atn",/^(!style[\\s=]|c z)(?:[w-:] \*w)?/i],["lang-uq.val",/^=\\s \*([\\^\\s\">]\*(?:[\\^\\s\">]|V(?:=\\s)))/i],["pun",/^[/<->]+/],["lang-js",/^on\\w+\\s \*?=\\s \*\"([\\^\"']+)\$/i],["lang-js",/^on\\w+\\s \*?=\\s \*'([\\^'']+)\$/i],["lang-js",/^on\\w+\\s \*?=\\s \*([\\^\\s\">]+)\$/i]

## Variables

- var `q` =`null`
- window `PR_SHOULD_USE_CONTINUATION` =!0
- `i`
- window `prettyPrintOne` =function(a,m,e){var h=document.createElement("PRE");h.innerHTML=a;e&&D(h,e);E({g↵ :m,i:e,h:h});return h.innerHTML}
- window `prettyPrint`
- window `PR`

## 5.9.1 Function Documentation

5.9.1.1 `k()` [1/2]`k (`  
`○ )`5.9.1.2 `k()` [2/2]`k ( )`

## 5.9.2 Variable Documentation

5.9.2.1 `i``i`5.9.2.2 `PR`window `PR`

## Initial value:

```
={createSimpleLexer:x,registerLangHandler:k,sourceDecorator:u,PR_ATTRIB_NAME:"atn",PR_ATTRIB_VALUE:"atv",PR_COMMENT:"com",PR_
PR_NOCODE:"nocode",PR_PLAIN:"pIn",PR_PUNCTUATION:"pun",PR_SOURCE:"src",PR_STRING:"str",PR_TAG:"tag",PR_TYPE:"typ"}}()
```



### 5.9.2.3 PR\_SHOULD\_USE\_CONTINUATION

```
window PR_SHOULD_USE_CONTINUATION =!0
```

### 5.9.2.4 prettyPrint

```
window prettyPrint
```

**Initial value:**

```
=function(a){function m(){for(var
    e=window.PR_SHOULD_USE_CONTINUATION?l.now()+250:Infinity;p<h.length&&l.now()<e;p++){var
    n=h[p],k=n.className;if(k.indexOf("prettyprint")>=0){var k=k.match(g),f,b;if(b=
!k){b=n;for(var o=void 0,c=b.firstChild;c=c.nextSibling)var
    i=c.nodeType,o=i===1?o:b:c:i===3?N.test(c.nodeValue)?b:o:o;b=(f=o===b?void
    0:o)&&"CODE"===f.tagName}b&&(k=f.className.match(g));k&&(k=k[1]);b=!1;for(o=n.parentNode;o=o.parentNode)if((o.tagName
250):a&&a())}for(var
    e=document.getElementsByTagName("pre"),document.getElementsByTagName("code"),document.getElementsByTagName("xmp"),h=
    t=0,s=e[k].length;t<s;++t)h.push(e[k][t]);var e=q,l=Date;l.now||l={now:function(){return+new
    Date}};var p=0,d,g=/\blang(?:uage)?-([\w.]+)(?!\S)/;m() }
```

### 5.9.2.5 prettyPrintOne

```
window prettyPrintOne =function(a,m,e){var h=document.createElement("PRE");h.innerHTML=a;e&&D(h,e);E({g↵
:m,i:e,h:h});return h.innerHTML}
```

### 5.9.2.6 q

```
var q =null
```

## 5.10 out/scripts/prettify/prettify.js File Reference

### Functions

- function **k** (O,["default-code"])
- **k** (x([["pln",/^\\s+/, **q**, "\\tr\\n"],["atv",/^(?:"[^"]\*"|'[^']\*')/,**q**, ""],["tag",/^(<V?[a-z](?:[w-:]\*)w)?|V?>\$/i],["atn",/^(?!style\\s=)|c
z](?:[w-:]\*)w)?/i],["lang-uq.val",/^=\\s\*(\\^[\\s"]>)\*(?:"\\s">|\\V(=\\s))/],["pun",/^(/[->]+/,["lang-js",/^on\\w+\\s
\*=\\s\*(\\^[^"]+)"\$/i],["lang-js",/^on\\w+\\s\*=\\s\*(\\^[^"]+)'\$/i],["lang-js",/^on\\w+\\s\*=\\s\*(\\^[\\s"]>)+\$/i]

### Variables

- var **q** =null
- window **PR\_SHOULD\_USE\_CONTINUATION** =!0
- **i**
- window **prettyPrintOne** =function(a,m,e){var h=document.createElement("PRE");h.innerHTML=a;e&&D(h,e);E({g↵
:m,i:e,h:h});return h.innerHTML}
- window **prettyPrint**
- window **PR**

### 5.10.1 Function Documentation

#### 5.10.1.1 k() [1/2]

```
function k (
    O )
```

### 5.10.1.2 k() [2/2]

k ( )

## 5.10.2 Variable Documentation

### 5.10.2.1 i

i

### 5.10.2.2 PR

window PR

#### Initial value:

```
=({createSimpleLexer:x,registerLangHandler:k,sourceDecorator:u,PR_ATTRIB_NAME:"atn",PR_ATTRIB_VALUE:"atv",PR_COMMENT:"com",PR_PR_NOCODE:"nocode",PR_PLAIN:"pln",PR_PUNCTUATION:"pun",PR_SOURCE:"src",PR_STRING:"str",PR_TAG:"tag",PR_TYPE:"typ"}})()
```

### 5.10.2.3 PR\_SHOULD\_USE\_CONTINUATION

window PR\_SHOULD\_USE\_CONTINUATION =!0

### 5.10.2.4 prettyPrint

window prettyPrint

#### Initial value:

```
=function(a){function m(){for(var e=window.PR_SHOULD_USE_CONTINUATION?l.now()+250:Infinity;p<h.length&&l.now()<e;p++){var n=h[p],k=n.className;if(k.indexOf("prettyprint")>=0){var k=k.match(g),f,b;if(b=!k){b=n;for(var o=void 0,c=b.firstChild;c=c.nextSibling)var i=c.nodeType,o=i===1?o:b:c:i===3?N.test(c.nodeValue)?b:o:o;b=(f=o===b?void 0:o)&&"CODE"===f.tagName}b&&(k=f.className.match(g));k&&(k=k[1]);b=!1;for(o=n.parentNode;o=o.parentNode)if((o.tagName===250):a&&a())}for(var e=[document.getElementsByTagName("pre"),document.getElementsByTagName("code"),document.getElementsByTagName("xmp")],h=t=0,s=e[k].length;t<s;++t)h.push(e[k][t]);var e=q,l=Date,l.now||l={now:function(){return new Date}};var p=0,d,g="/\b\lang(?:uage)?-([\w.]+)(?!\S)/";m()}}
```

### 5.10.2.5 prettyPrintOne

```
window prettyPrintOne =function(a,m,e){var h=document.createElement("PRE");h.innerHTML=a;e&&D(h,e);E({g←:m,i:e,h:h});return h.innerHTML}
```

### 5.10.2.6 q

var q =null

## 5.11 level2/level2.js File Reference

### Functions

- function [create\\_map](#) (x, y, n, val)
- document [ready](#) (function() { if(Math.random() > 0.5){ [create\\_map](#)(0, 14, 3, 1);} else{ [create\\_map](#)(0, 14, 3, 2);} }) [change](#)

## Variables

- var `total_gems` = 0
- var `pos_x` = 0
- var `pos_y` = 14
- var `reloaded` = true
- window `dict` = {}

## 5.11.1 Function Documentation

### 5.11.1.1 `create_map()`

```
function create_map (
    x,
    y,
    n,
    val )
```

### 5.11.1.2 `ready()`

```
document ready (
    function() { if(Math.random() > 0.5){ create_map(0, 14, 3, 1);} else{ create_map(0,
14, 3, 2);} } )
```

## 5.11.2 Variable Documentation

### 5.11.2.1 `dict`

```
window dict = {}
```

### 5.11.2.2 `pos_x`

```
var pos_x = 0
```

### 5.11.2.3 `pos_y`

```
var pos_y = 14
```

### 5.11.2.4 `reloaded`

```
var reloaded = true
```

### 5.11.2.5 `total_gems`

```
var total_gems = 0
```

## 5.12 level3/level3.js File Reference

### Functions

- document `ready` (function() { `total_gems=0`;window.dict={};reloaded=true;pos\_x=0;pos\_y=0;var ver=6;var hori=6;var posx=0;var posy=0;var num=Math.random();if(num< 0.5) { `arena_type=1`;while(ver !=0) { while(hori !=0) { hori=hori - 1;elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png" gem.id=10000+100 \*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;var curr=100 \*(posx - 2)+posy;var next=100 \*posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);} ver=ver - 1;elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100 \*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;} var curr=100 \*(posx)+posy - 2;var next=100 \*posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);hori=6;posx=posx - 2;while(hori !=0) { hori=hori - 1;elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx - 2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png" gem.id=10000+100 \*(posx+2)+posy;gem.className="gems";gem.style.left=posx+2+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;var curr=100 \*(posx+4)+posy;var next=100 \*(posx+2)+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);} hori=6;ver=ver - 1;posx=posx+2 elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100 \*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;var curr=100 \*(posx)+posy - 2;var next=100 \*posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);} snowman=document.createElement('img');snowman.src="../images/snowman.png";snowman.id="sm";snowman.className="snowmens";snowman.style.left=1+"cm";snowman.style.top=12+"cm";\$('#arena').append([snowman]);snowman\_d=document.createElement('img');snowman\_d.src="../images/snowman\_dead.png";snowman\_d.id="sm\_d";snowman\_d.className="snowmens";snowman\_d.style.left=1+"cm";snowman\_d.style.top=12+"cm";} else if(num > 0.5){ `arena_type=2`;while(hori !=0) { while(ver !=0) { ver=ver - 1;elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png" gem.id=10000+100 \*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;} var curr=100 \*(posx)+posy - 2;var next=100 \*posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);} hori=hori - 1;elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100 \*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;} var curr=100 \*(posx - 2)+posy;var next=100 \*posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);ver=6;posy=posy - 2;while(ver !=0) { ver=ver - 1;elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy - 2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png" gem.id=10000+100 \*(posx)+posy+2;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+2+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;var curr=100 \*(posx)+posy+4;var next=100 \*(posx)+posy+2;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);} ver=6;hori=hori - 1;posy=posy+2 elem=document.createElement('div');elem.id=100 \*posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100 \*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";\$('#arena').append([gem]);total\_gems=total\_gems+1;var curr=100 \*(posx - 2)+posy;var next=100 \*posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];} \$('#arena').append([elem]);} } }

```
snowman=document.createElement('img');snowman.src="../images/snowman.png";snowman.id="sm";snowman.↵
className="snowmens";snowman.style.left=12+"cm";snowman.style.top=1+"cm";$('#arena').append([snowman]);snowman.↵
_d=document.createElement('img');snowman_d.src="../images/snowman_dead.png";snowman_d.id="sm_↵
_d";snowman_d.className="snowmens";snowman_d.style.left=12+"cm";snowman_d.style.top=1+"cm";} })
change
```

## Variables

- var `total_gems` = 0
- var `pos_x` = 0
- var `pos_y` = 0
- var `reloaded` = true
- var `snowman_killed` = 0
- var `arena_type` = 0

## 5.12.1 Function Documentation

### 5.12.1.1 ready()

```
document ready (
    function() { total_gems=0;window.dict={};reloaded=true;pos_x=0;pos_y=0;var ver=6;var
hori=6;var posx=0;var posy=0;var num=Math.random();if(num< 0.5) { arena_type=1;while(ver !=0)
{ while(hori !=0) { hori=hori - 1;elem=document.createElement('div');elem.id=100 *posx+posy;elem.↵
className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx+2;if(Math.↵
random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png" gem.id=10000+100
*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);tot
var curr=100 *(posx - 2)+posy;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
$('#arena').append([elem]);} ver=ver - 1;elem=document.createElement('div');elem.id=100 *posx+posy;elem.↵
className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.↵
random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100
*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);tot
var curr=100 *(posx)+posy - 2;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
$('#arena').append([elem]);hori=6;posx=posx - 2;while(hori !=0) { hori=hori - 1;elem=document.↵
createElement('div');elem.id=100 *posx+posy;elem.className="path horizontal";elem.style.↵
left=posx+"cm";elem.style.top=posy+"cm";posx=posx - 2;if(Math.random() > 0.6) { gem=document.↵
createElement('img');gem.src="../images/star.png" gem.id=10000+100 *(posx+2)+posy;gem.class↵
Name="gems";gem.style.left=posx+2+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);total_gems=total_gems
var curr=100 *(posx+4)+posy;var next=100 *(posx+2)+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
$('#arena').append([elem]);} hori=6;ver=ver - 1;posx=posx+2 elem=document.createElement('div');elem.↵
id=100 *posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+
random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100
*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);tot
var curr=100 *(posx)+posy - 2;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
$('#arena').append([elem]);} snowman=document.createElement('img');snowman.src="../images/snowman.↵
png";snowman.id="sm";snowman.className="snowmens";snowman.style.left=1+"cm";snowman.style.↵
top=12+"cm";$('#arena').append([snowman]);snowman_d=document.createElement('img');snowman_d.↵
src="../images/snowman_dead.png";snowman_d.id="sm_d";snowman_d.className="snowmens";snowman_↵
d.style.left=1+"cm";snowman_d.style.top=12+"cm";} else if(num > 0.5){ arena_type=2;while(hori
!=0) { while(ver !=0) { ver=ver - 1;elem=document.createElement('div');elem.id=100 *posx+posy;elem.↵
className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.↵
random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png" gem.id=10000+100
*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);tot
```

```

var curr=100 *(posx)+posy - 2;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append(curr);} else { dict[next]=[curr];}
$('#arena').append([elem]);} hori=hori - 1;elem=document.createElement('div');elem.id=100
*posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx+2;if(
random() > 0.6) { gem=document.createElement('img');gem.src="../images/star.png";gem.id=10000+100
*posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);tot
var curr=100 *(posx - 2)+posy;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append(curr);} else { dict[next]=[curr];}
$('#arena').append([elem]);ver=6;posy=posy - 2;while(ver !=0) { ver=ver - 1;elem=document.↵
createElement('div');elem.id=100 *posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.↵
style.top=posy+"cm";posy=posy - 2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.↵
src="../images/star.png" gem.id=10000+100 *(posx)+posy+2;gem.className="gems";gem.style.↵
left=posx+"cm";gem.style.top=posy+2+"cm";$('#arena').append([gem]);total_gems=total_gems+1;}
var curr=100 *(posx)+posy+4;var next=100 *(posx)+posy+2;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append(curr);} else { dict[next]=[curr];}
$('#arena').append([elem]);} ver=6;hori=hori - 1;posy=posy+2 elem=document.createElement('div');elem.↵
id=100 *posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.↵
top=posy+"cm";posx=posx+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.↵
src="../images/star.png";gem.id=10000+100 *posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.↵
style.top=posy+"cm";$('#arena').append([gem]);total_gems=total_gems+1;} var curr=100 *(posx -
2)+posy;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);} else { dict[curr]=[next];}
if(next in dict) { dict[next].append(curr);} else { dict[next]=[curr];} $('#arena').append([elem]);}
snowman=document.createElement('img');snowman.src="../images/snowman.png";snowman.id="sm";snowman.↵
className="snowmens";snowman.style.left=12+"cm";snowman.style.top=1+"cm";$('#arena').append([snowman]);snowman
_d=document.createElement('img');snowman_d.src="../images/snowman_dead.png";snowman_d.id="sm↵
_d";snowman_d.className="snowmens";snowman_d.style.left=12+"cm";snowman_d.style.top=1+"cm";} }
)

```

## 5.12.2 Variable Documentation

### 5.12.2.1 arena\_type

```
var arena_type = 0
```

### 5.12.2.2 pos\_x

```
var pos_x = 0
```

### 5.12.2.3 pos\_y

```
var pos_y = 0
```

### 5.12.2.4 reloaded

```
var reloaded = true
```

### 5.12.2.5 snowman\_killed

```
var snowman_killed = 0
```

### 5.12.2.6 total\_gems

```
var total_gems = 0
```

## 5.13 level4/level4.js File Reference

### Functions

- document [ready](#) (function() { [total\\_gems](#)=0;[window.dict](#)={};[reloaded](#)=true;[pos\\_x](#)=0;[pos\\_y](#)=0;var [ver](#)=6;var [hori](#)=6;var [posx](#)=0;var [posy](#)=0;var [i](#)=0;var [num](#)=Math.random();if([num](#)< 0.5) { [arena\\_type](#)=1;while([ver](#) !=0) { [i](#)=[i](#)+2 [hori](#)=[i](#);while([hori](#) !=0) { [hori](#)=[hori](#) - 1;elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.className="path horizontal";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posx](#)=[posx](#)+2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png" [gem](#).id=10000+100 \*[posx](#)+[posy](#);gem.className="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);var [curr](#)=100 \*([posx](#) - 2)+[posy](#);var [next](#)=100 \*[posx](#)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);[ver](#)=[ver](#) - 1;elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.className="path vertical";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posy](#)=[posy](#)+2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png";[gem.id](#)=10000+100 \*[posx](#)+[posy](#);gem.class←Name="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);[total\\_gems](#)=[total\\_gems](#)+1;} var [curr](#)=100 \*([posx](#))+[posy](#) - 2;var [next](#)=100 \*[posx](#)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);[hori](#)=[i](#);[posx](#)=[posx](#) - 2;while([hori](#) !=0) { [hori](#)=[hori](#) - 1;elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.className="path horizontal";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posx](#)=[posx](#) - 2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png" [gem](#).id=10000+100 \*([posx](#)+2)+[posy](#);gem.className="gems";gem.style.left=[posx](#)+2+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);var [curr](#)=100 \*([posx](#)+4)+[posy](#);var [next](#)=100 \*([posx](#)+2)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);[ver](#)=[ver](#) - 1;[posx](#)=[posx](#)+2 elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.class←Name="path vertical";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posy](#)=[posy](#)+2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png";[gem.id](#)=10000+100 \*[posx](#)+[posy](#);gem.className="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);[total\\_gems](#)=[total\\_gems](#)+1;} var [curr](#)=100 \*([posx](#))+[posy](#) - 2;var [next](#)=100 \*[posx](#)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);} else if([num](#) > 0.5){ [arena\\_type](#)=2;while([hori](#) !=0) { [i](#)=[i](#)+2;[ver](#)=[i](#);while([ver](#) !=0) { [ver](#)=[ver](#) - 1;elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.className="path vertical";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posy](#)=[posy](#)+2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png" [gem](#).id=10000+100 \*[posx](#)+[posy](#);gem.className="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);[total\\_gems](#)=[total\\_gems](#)+1;} var [curr](#)=100 \*([posx](#))+[posy](#) - 2;var [next](#)=100 \*[posx](#)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);} [hori](#)=[hori](#) - 1;elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.className="path horizontal";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posx](#)=[posx](#)+2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png";[gem.id](#)=10000+100 \*[posx](#)+[posy](#);gem.class←Name="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);[total\\_gems](#)=[total\\_gems](#)+1;} var [curr](#)=100 \*([posx](#) - 2)+[posy](#);var [next](#)=100 \*[posx](#)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);[ver](#)=[i](#);[posy](#)=[posy](#) - 2;while([ver](#) !=0) { [ver](#)=[ver](#) - 1;elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.class←Name="path vertical";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posy](#)=[posy](#) - 2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png" [gem](#).id=10000+100 \*([posx](#))+[posy](#)+2;gem.className="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+2+"cm";\$('#arena').append([gem]);[total\\_gems](#)=[total\\_gems](#)+1;} var [curr](#)=100 \*([posx](#))+[posy](#)+4;var [next](#)=100 \*([posx](#))+[posy](#)+2;if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);} [hori](#)=[hori](#) - 1;[posy](#)=[posy](#)+2 elem=document.createElement('div');elem.id=100 \*[posx](#)+[posy](#);elem.class←Name="path horizontal";elem.style.left=[posx](#)+"cm";elem.style.top=[posy](#)+"cm";[posx](#)=[posx](#)+2;if(Math.random() > 0.6) { [gem](#)=document.createElement('img');[gem.src](#)="../../images/diamond.png";[gem.id](#)=10000+100 \*[posx](#)+[posy](#);gem.className="gems";gem.style.left=[posx](#)+"cm";gem.style.top=[posy](#)+"cm";\$('#arena').append([gem]);[total\\_gems](#)=[total\\_gems](#)+1;} var [curr](#)=100 \*([posx](#) - 2)+[posy](#);var [next](#)=100 \*[posx](#)+[posy](#);if([curr](#) in [dict](#)) { [dict](#)[[curr](#)].push([next](#));} else { [dict](#)[[curr](#)]=[[next](#)];} if([next](#) in [dict](#)) { [dict](#)[[next](#)].append([curr](#));} else { [dict](#)[[next](#)]=[[curr](#)];} \$('#arena').append([elem]);} }) [change](#)



## Variables

- var `total_gems` = 0
- var `pos_x` = 0
- var `pos_y` = 0
- var `reloaded` = true
- var `snowman_killed` = 0
- var `arena_type` = 0

## 5.13.1 Function Documentation

### 5.13.1.1 ready()

```
document ready (
    function() { total_gems=0;window.dict={};reloaded=true;pos_x=0;pos_y=0;var ver=6;var
    hori=6;var posx=0;var posy=0;var i=0;var num=Math.random();if(num< 0.5) { arena_type=1;while(ver
    !=0) { i=i+2 hori=i;while(hori !=0) { hori=hori - 1;elem=document.createElement('div');elem.↵
    id=100 *posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.↵
    top=posy+"cm";posx=posx+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.↵
    src="../images/diamond.png" gem.id=10000+100 *posx+posy;gem.className="gems";gem.style.↵
    left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);total_gems=total_gems+1;} var
    curr=100 *(posx - 2)+posy;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
    else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
    $('#arena').append([elem]);} ver=ver - 1;elem=document.createElement('div');elem.id=100 *posx+posy;elem.↵
    className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.↵
    random() > 0.6) { gem=document.createElement('img');gem.src="../images/diamond.png";gem.↵
    id=10000+100 *posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').appe
    var curr=100 *(posx)+posy - 2;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
    else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
    $('#arena').append([elem]);hori=i;posx=posx - 2;while(hori !=0) { hori=hori - 1;elem=document.↵
    createElement('div');elem.id=100 *posx+posy;elem.className="path horizontal";elem.style.↵
    left=posx+"cm";elem.style.top=posy+"cm";posx=posx - 2;if(Math.random() > 0.6) { gem=document.↵
    createElement('img');gem.src="../images/diamond.png" gem.id=10000+100 *(posx+2)+posy;gem.↵
    className="gems";gem.style.left=posx+2+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);total_gems=total
    var curr=100 *(posx+4)+posy;var next=100 *(posx+2)+posy;if(curr in dict) { dict[curr].push(next);}
    else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
    $('#arena').append([elem]);} ver=ver - 1;posx=posx+2 elem=document.createElement('div');elem.↵
    id=100 *posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+
    random() > 0.6) { gem=document.createElement('img');gem.src="../images/diamond.png";gem.↵
    id=10000+100 *posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').appe
    var curr=100 *(posx)+posy - 2;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
    else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
    $('#arena').append([elem]);} } else if(num > 0.5){ arena_type=2;while(hori !=0) { i=i+2;ver=i;while(ver
    !=0) { ver=ver - 1;elem=document.createElement('div');elem.id=100 *posx+posy;elem.class↵
    Name="path vertical";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posy=posy+2;if(Math.↵
    random() > 0.6) { gem=document.createElement('img');gem.src="../images/diamond.png" gem.↵
    id=10000+100 *posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').appe
    var curr=100 *(posx)+posy - 2;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
    else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
    $('#arena').append([elem]);} hori=hori - 1;elem=document.createElement('div');elem.id=100
    *posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.top=posy+"cm";posx=posx+2;if(
    random() > 0.6) { gem=document.createElement('img');gem.src="../images/diamond.png";gem.↵
    id=10000+100 *posx+posy;gem.className="gems";gem.style.left=posx+"cm";gem.style.top=posy+"cm";$('#arena').appe
    var curr=100 *(posx - 2)+posy;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
    else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
```

```

$('#arena').append([elem]);ver=i;posy=posy - 2;while(ver !=0) { ver=ver - 1;elem=document.↵
createElement('div');elem.id=100 *posx+posy;elem.className="path vertical";elem.style.left=posx+"cm";elem.↵
style.top=posy+"cm";posy=posy - 2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.↵
src="../images/diamond.png" gem.id=10000+100 *(posx)+posy+2;gem.className="gems";gem.style.↵
left=posx+"cm";gem.style.top=posy+2+"cm";$('#arena').append([gem]);total_gems=total_gems+1;}
var curr=100 *(posx)+posy+4;var next=100 *(posx)+posy+2;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
$('#arena').append([elem]);} hori=hori - 1;posy=posy+2 elem=document.createElement('div');elem.↵
id=100 *posx+posy;elem.className="path horizontal";elem.style.left=posx+"cm";elem.style.↵
top=posy+"cm";posx=posx+2;if(Math.random() > 0.6) { gem=document.createElement('img');gem.↵
src="../images/diamond.png";gem.id=10000+100 *posx+posy;gem.className="gems";gem.style.↵
left=posx+"cm";gem.style.top=posy+"cm";$('#arena').append([gem]);total_gems=total_gems+1;} var
curr=100 *(posx - 2)+posy;var next=100 *posx+posy;if(curr in dict) { dict[curr].push(next);}
else { dict[curr]=[next];} if(next in dict) { dict[next].append[curr];} else { dict[next]=[curr];}
$('#arena').append([elem]);} } } )

```

## 5.13.2 Variable Documentation

### 5.13.2.1 arena\_type

```
var arena_type = 0
```

### 5.13.2.2 pos\_x

```
var pos_x = 0
```

### 5.13.2.3 pos\_y

```
var pos_y = 0
```

### 5.13.2.4 reloaded

```
var reloaded = true
```

### 5.13.2.5 snowman\_killed

```
var snowman_killed = 0
```

### 5.13.2.6 total\_gems

```
var total_gems = 0
```

## 5.14 level5/level5.js File Reference

### Functions

- function [weapon](#) ()  
*Imao function*
- function [check\\_success](#) ()  
*ADD weapn wala.*
- function [print\\_stat](#) ()

- ADD weapn wala.*
- function `add_weapon` (px, py, n)
- ADD weapn wala.*

## Variables

- var `gem_found` = [false, false, false, false, false]
- var `total_gems` = 0
- var `pos_x` = 0
- var `pos_y` = 0
- var `reloaded` = true
- var `insequence` = true
- var `id_order` = []
- var `index` = 0
- window `dict` = {}
- `change`
- var `logger` = document.getElementById('log')
- console `log`

## 5.14.1 Function Documentation

### 5.14.1.1 `add_weapon()`

```
function add_weapon (
    px,
    py,
    n )
```

*ADD weapn wala.*

#### Parameters

{*}	px
{*}	py
{*}	n

### 5.14.1.2 `check_success()`

```
function check_success ( )
```

*ADD weapn wala.*

check

#### Parameters

{*}	px
{*}	py
{*}	n

### 5.14.1.3 `print_stat()`

```
function print_stat ( )
```

ADD weapn wala.

#### Parameters

{*}	px
{*}	py
{*}	n

#### 5.14.1.4 weapon()

```
function weapon ( )  
lmao function
```

#### Parameters

{*}	px
{*}	py
{*}	n

### 5.14.2 Variable Documentation

#### 5.14.2.1 change

```
change
```

#### 5.14.2.2 dict

```
window dict = {}
```

#### 5.14.2.3 gem\_found

```
var gem_found = [false, false, false, false, false]
```

#### 5.14.2.4 id\_order

```
var id_order = []
```

#### 5.14.2.5 index

```
var index = 0
```

#### 5.14.2.6 insequence

```
var insequence = true
```

#### 5.14.2.7 log

console log

**Initial value:**

```
= function (message) {  
    if (String(message).includes("level1/level1.html#__main__")) {  
        logger.innerHTML += "error" + '<br />';  
    }  
    else if (typeof message == 'object') {  
        logger.innerHTML += (JSON && JSON.stringify ? JSON.stringify(message) : message) + '<br />';  
    }  
    else {  
        logger.innerHTML += message + '<br />'  
    }  
}  
})();
```

#### 5.14.2.8 logger

```
var logger = document.getElementById('log')
```

#### 5.14.2.9 pos\_x

```
var pos_x = 0
```

#### 5.14.2.10 pos\_y

```
var pos_y = 0
```

#### 5.14.2.11 reloaded

```
var reloaded = true
```

#### 5.14.2.12 total\_gems

```
var total_gems = 0
```

## 5.15 README.md File Reference

## 5.16 references.txt File Reference

## 5.17 source/conf.py File Reference

### Namespaces

- [conf](#)

### Variables

- string [conf.project](#) = 'Python Combat'
- string [conf.copyright](#) = '2022, Atishay Jain, Megh Gohil, Avadhoot Jadhav'
- string [conf.author](#) = 'Atishay Jain, Megh Gohil, Avadhoot Jadhav'
- string [conf.version](#) = '1.1'
- string [conf.release](#) = '25 November, 2022'
- list [conf.extensions](#)
- list [conf.templates\\_path](#) = ['.templates']
- string [conf.source\\_suffix](#) = '.rst'

- string `conf.master_doc` = 'index'
- string `conf.js_source_path` = '../level1/'
- string `conf.primary_domain` = 'js'
- string `conf.language` = 'en'
- list `conf.exclude_patterns` = []
- list `conf.html_static_path` = [".static"]
- `conf.pygments_style` = None
- string `conf.html_theme` = 'alabaster'
- string `conf.htmlhelp_basename` = 'PythonCombatdoc'
- dictionary `conf.latex_elements`
- list `conf.latex_documents`
- list `conf.man_pages`
- list `conf.texinfo_documents`
- string `conf.epub_title` = project
- list `conf.epub_exclude_files` = ['search.html']

## 5.18 Sync.js File Reference

### Namespaces

- [Sync](#)

### Variables

- var [Sync](#)

#### 5.18.1 Detailed Description

@function typeWriter Module for loading and storing data

#### 5.18.2 Variable Documentation

##### 5.18.2.1 Sync

var Sync

**Initial value:**

```
= {
    load : function (id, success, error) {
    },
    store : function (id, data, success, error) {
    },
}
```

## 5.19 Sync.js.cpp File Reference

### Namespaces

- [Sync](#)

### Functions

- undefined [Sync::load](#) (String id, Function success, Function error)
- undefined [Sync::store](#) (String id, Object data, Function success, Function error)

## 5.20 welcome.js File Reference

### Functions

- function `typeWriter` ()

### Variables

- var `title` = "Python Combat"
- var `i` = 0
- var `speed` = 150

#### 5.20.1 Function Documentation

##### 5.20.1.1 `typeWriter()`

```
function typeWriter ( )
```

#### 5.20.2 Variable Documentation

##### 5.20.2.1 `i`

```
var i = 0
```

##### 5.20.2.2 `speed`

```
var speed = 150
```

##### 5.20.2.3 `title`

```
var title = "Python Combat"
```





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