Super Eastgate 1.0

Generated by Doxygen 1.6.1

Sun Apr 11 19:42:53 2010

Contents

1	Tode	o List			1
2	Nan	nespace	Index		3
	2.1	Names	space List		3
3	Clas	s Index			5
	3.1	Class l	Hierarchy		5
4	Clas	s Index	:		7
	4.1	Class l	List		7
5	File	Index			9
	5.1	File Li	ist		9
6	Nan	nespace	Documer	ntation	11
	6.1	-		espace Reference	11
		6.1.1		Description	
		6.1.2		n Documentation	
		0.1.2	6.1.2.1	IntToString	
			6.1.2.2	StringToDouble	
			6.1.2.3	StringToInt	
			6.1.2.4	StringToUInt	
			6.1.2.5	StringToWString	
			6.1.2.6	UIntToString	
			6.1.2.7	WStringToString	
	6.2	Gamel	Loader Na	amespace Reference	14
		6.2.1	Detailed	Description	14
		6.2.2	Function	n Documentation	14
			6.2.2.1	GameGridToCoords	14
			6222	Load aval	1.4

ii CONTENTS

			6.2.2.3 RunLoader	15
	6.3	Graph	cLoaders Namespace Reference	16
		6.3.1	Detailed Description	16
		6.3.2	Typedef Documentation	16
			6.3.2.1 TextureIdentifier	16
		6.3.3	Function Documentation	16
			6.3.3.1 LoadNewBitmap	16
			6.3.3.2 LoadTga	16
			6.3.3.3 LoadTga	16
	6.4	UtilFu	nctions Namespace Reference	18
		6.4.1	Detailed Description	18
		6.4.2	Typedef Documentation	18
			6.4.2.1 StringTokens	18
			6.4.2.2 StringTokensType	18
		6.4.3	Function Documentation	18
			6.4.3.1 DestroyStringTokens	18
			6.4.3.2 StringTokenizer	19
			6.4.3.3 StringTokenizer2	19
			6.4.3.4 TrimWhiteSpace	19
7	Clos	s Door	nentation 2	21
,	7.1			21
	7.1	7.1.1		21 22
		7.1.1	•	22 22
		7.1.2		22 22
		7.1.3	•	22 22
		7.1.3		22 22
				22 22
				22 22
				22 23
				23 23
		7.1.4	1	23 23
		7.1.4		23 23
				23
			7.1.4.3 m_killed	23
			7144 m vStatus	$\gamma \gamma$
	7.2	A I/T		23 24

	7.2.1	Detailed Description	24
	7.2.2	Constructor & Destructor Documentation	24
		7.2.2.1 AIType1	24
		7.2.2.2 ~AIType1	25
	7.2.3	Member Function Documentation	25
		7.2.3.1 CheckCollision	25
		7.2.3.2 Collide	25
		7.2.3.3 SwitchDirections	26
		7.2.3.4 Trigger	26
		7.2.3.5 Update	26
	7.2.4	Member Data Documentation	26
		7.2.4.1 m_direction	26
		7.2.4.2 m_textureIds	26
7.3	AITyp	pe2 Class Reference	27
	7.3.1	Detailed Description	27
	7.3.2	Constructor & Destructor Documentation	27
		7.3.2.1 AIType2	27
		7.3.2.2 ~AIType2	28
	7.3.3	Member Function Documentation	28
		7.3.3.1 Collide	28
		7.3.3.2 Update	28
	7.3.4	Member Data Documentation	28
		7.3.4.1 m_verticalCollisionsThisPass	28
7.4	Audiol	Manager Class Reference	29
	7.4.1	Detailed Description	30
	7.4.2		30
		7.4.2.1 AudioManager	30
		7.4.2.2 ~AudioManager	30
			30
	7.4.3		30
			30
			30
			31
			31
		•	31
		•	31
		Stillisteller rates	- 1

iv CONTENTS

			7.4.3.7	StopALSource	31
		7.4.4	Member	Data Documentation	31
			7.4.4.1	ListenerOri	31
			7.4.4.2	ListenerPos	31
			7.4.4.3	ListenerVel	32
			7.4.4.4	$m_CheckpointBuff \\ \ldots \\ \ldots \\ \ldots \\ \ldots$	32
			7.4.4.5	m_CheckpointSrc	32
			7.4.4.6	$m_CoinBuff \ \ldots \ \ldots \ \ldots \ \ldots \ \ldots \ \ldots \ \ldots$	32
			7.4.4.7	$m_CoinSrc \dots \dots$	32
			7.4.4.8	$m_HitBrickBuff \ . \ . \ . \ . \ . \ . \ . \ . \ . \$	32
			7.4.4.9	$m_HitBrickSrc \dots \dots$	32
			7.4.4.10	$m_instance \dots \dots$	32
			7.4.4.11	$m_PowerupBuff \ . \ . \ . \ . \ . \ . \ . \ . \ . \$	32
			7.4.4.12	$m_PowerupSrc \dots \dots$	32
			7.4.4.13	$m_Song1Buff \ldots \ldots \ldots \ldots \ldots \ldots$	32
			7.4.4.14	$m_Song1Src\ \dots \dots$	33
			7.4.4.15	$m_Song2Buff \ldots \ldots \ldots \ldots \ldots \ldots$	33
			7.4.4.16	m_Song2Src	33
			7.4.4.17	$m_Song3Buff \ldots \ldots \ldots \ldots \ldots \ldots \ldots$	33
			7.4.4.18	m_Song3Src	33
			7.4.4.19	SourcePos	33
			7.4.4.20	SourceVel	33
7	.5	BackG	roundMan	ager Class Reference	34
		7.5.1	Detailed 1	Description	34
		7.5.2	Construct	tor & Destructor Documentation	34
			7.5.2.1	BackGroundManager	34
			7.5.2.2	~BackGroundManager	34
		7.5.3	Member	Function Documentation	35
			7.5.3.1	Draw	35
		7.5.4	Member	Data Documentation	35
			7.5.4.1	$m_background \ldots \ldots \ldots \ldots \ldots \ldots$	35
			7.5.4.2	m_cameraPercent	35
			7.5.4.3	m_screenHeight	35
			7.5.4.4	m_screenWidth	35
7	.6	Collisio	onObject C	Class Reference	36
		7.6.1	Detailed 1	Description	36

	7.6.2	Member Function Documentation
		7.6.2.1 CheckCollision
		7.6.2.2 Collide
7.7	Contro	olObject Class Reference
	7.7.1	Detailed Description
	7.7.2	Constructor & Destructor Documentation
		7.7.2.1 ControlObject
		7.7.2.2 ~ControlObject
	7.7.3	Member Function Documentation
		7.7.3.1 GetControlKey
		7.7.3.2 LoadControls
		7.7.3.3 SetControlKey
		7.7.3.4 StringToKey
	7.7.4	Member Data Documentation
		7.7.4.1 m_controlKeys
7.8	Conve	rter::ConverterException Class Reference
	7.8.1	Detailed Description
	7.8.2	Constructor & Destructor Documentation
		7.8.2.1 ConverterException
	7.8.3	Member Function Documentation
		7.8.3.1 what
	7.8.4	Member Data Documentation
		7.8.4.1 m_msg
7.9	GameI	Base Class Reference
	7.9.1	Detailed Description
	7.9.2	Constructor & Destructor Documentation
		7.9.2.1 GameBase
		7.9.2.2 ~GameBase
	7.9.3	Member Function Documentation
		7.9.3.1 BuildHUDFont
		7.9.3.2 Draw
		7.9.3.3 KeyPressed
		7.9.3.4 KeyReleased
		7.9.3.5 KillHudFont
		7.9.3.6 LeftMouseClick
		7.9.3.7 PerformInit

Vi

	7.9.3.8	PerformUpdate	43
	7.9.3.9	PlayGame	43
7.9.4	Member	Data Documentation	43
	7.9.4.1	m_controls	43
	7.9.4.2	m_currentGameState	44
	7.9.4.3	m_currentWorld	44
	7.9.4.4	m_delayTimer	44
	7.9.4.5	m_gameDude	44
	7.9.4.6	m_hudTextBase	44
	7.9.4.7	m_hudTextGmf	. 44
	7.9.4.8	m_menu	. 44
	7.9.4.9	m_worldList	. 44
7.10 GameI	Oude Class	s Reference	45
7.10.1	Detailed	Description	46
7.10.2	Construc	tor & Destructor Documentation	46
	7.10.2.1	GameDude	46
	7.10.2.2	~GameDude	46
7.10.3	Member	Function Documentation	46
	7.10.3.1	Collide	46
	7.10.3.2	Draw	46
	7.10.3.3	GetDudeStatus	47
	7.10.3.4	GetFacing	47
	7.10.3.5	GetHorizontalStatus	47
	7.10.3.6	GetOffset	47
	7.10.3.7	GetVerticalStatus	47
	7.10.3.8	Move	47
	7.10.3.9	Reset	48
	7.10.3.10	SetCrouching	48
	7.10.3.11	SetDudeStatus	48
	7.10.3.12	2 SetHoriztonalStatus	48
	7.10.3.13	SetLeftBound	48
	7.10.3.14	SetVerticalStatus	49
	7.10.3.15	Update	49
7.10.4	Member	Data Documentation	49
	7.10.4.1	m_crouching	49
	7.10.4.2	m_gameDudeStatus	49

CONTENTS vii

7.10.4.3 m_gameFloor	49
7.10.4.4 m_hStatus	49
7.10.4.5 m_invincible	49
7.10.4.6 m_jumpHeight	50
7.10.4.7 m_lastDirection	50
7.10.4.8 m_startingPos	50
7.10.4.9 m_textureIds	50
7.10.4.10 m_vStatus	50
7.10.4.11 m_xOffset	50
7.11 GamePiece Class Reference	51
7.11.1 Detailed Description	51
7.11.2 Constructor & Destructor Documentation	51
7.11.2.1 GamePiece	51
7.11.3 Member Function Documentation	52
7.11.3.1 CheckCollision	52
7.11.3.2 Collide	52
7.11.3.3 Draw	52
7.11.3.4 GetCurrentPosition	52
7.11.3.5 OnScreen	53
7.11.3.6 SetPosition	53
7.11.4 Member Data Documentation	53
7.11.4.1 m_broken	53
7.11.4.2 m_currentLocation	53
7.11.4.3 m_textureId	53
7.12 GlApplication Class Reference	54
7.12.1 Detailed Description	55
7.12.2 Constructor & Destructor Documentation	55
7.12.2.1 GlApplication	55
7.12.2.2 ~GlApplication	55
7.12.3 Member Function Documentation	55
7.12.3.1 Draw	55
7.12.3.2 GetPointAtCursor	55
7.12.3.3 Init	55
7.12.3.4 KeyPressed	56
7.12.3.5 KeyReleased	56
7.12.3.6 LeftMouseClick	56

viii CONTENTS

	7.12.3.7 Main	56
	7.12.3.8 MessageHandler	57
	7.12.3.9 PerformInit	57
	7.12.3.10 PerformUpdate	57
	7.12.3.11 RightMouseClick	57
	7.12.3.12 Update	57
7.12.4	Member Data Documentation	58
	7.12.4.1 hInstance	58
	7.12.4.2 m_applicationRunning	58
	7.12.4.3 m_isActive	58
	7.12.4.4 m_keys	58
	7.12.4.5 m_lastTickCount	58
	7.12.4.6 m_objectList	58
	7.12.4.7 m_window	58
7.13 GlFran	neworkObject Class Reference	59
7.13.1	Detailed Description	59
7.13.2	Member Function Documentation	59
	7.13.2.1 Draw	59
	7.13.2.2 Update	59
7.14 GlWin	dow Class Reference	60
7.14.1	Detailed Description	60
7.14.2	Constructor & Destructor Documentation	60
	7.14.2.1 GlWindow	60
	7.14.2.2 ~GlWindow	61
7.14.3	Member Function Documentation	61
	7.14.3.1 CreateGlWindow	61
	7.14.3.2 EnableFullScreen	61
	7.14.3.3 GetWindowHeight	61
	7.14.3.4 GetWindowWidth	62
	7.14.3.5 KillWindow	62
	7.14.3.6 operator HDC	62
	7.14.3.7 operator HWND	62
	7.14.3.8 ResizeGlScene	62
	7.14.3.9 SwapBuffers	62
7.14.4	Member Data Documentation	63
	7.14.4.1 m_hDc	63

	7.14.4.2 m_hRc	63
	7.14.4.3 m_hWnd	63
	7.14.4.4 m_isFullScreen	63
	7.14.4.5 m_windowHeight	63
	7.14.4.6 m_windowWidth	63
7.15 KeyHa	ndler Class Reference	64
7.15.1	Detailed Description	64
7.15.2	Constructor & Destructor Documentation	64
	7.15.2.1 KeyHandler	64
7.15.3	Member Function Documentation	64
	7.15.3.1 GetPressed	64
	7.15.3.2 Reset	64
	7.15.3.3 SetPressed	65
	7.15.3.4 SetReleased	65
7.15.4	Member Data Documentation	65
	7.15.4.1 m_keys	65
7.16 LevelE	andObject Class Reference	66
7.16.1	Detailed Description	66
7.16.2	Constructor & Destructor Documentation	66
	7.16.2.1 LevelEndObject	66
	7.16.2.2 ~LevelEndObject	66
7.16.3	Member Function Documentation	67
	7.16.3.1 CheckCollision	67
	7.16.3.2 Draw	67
	7.16.3.3 LevelDone	67
7.16.4	Member Data Documentation	67
	7.16.4.1 m_levelDone	67
7.17 LevelC	Object Class Reference	68
7.17.1	Detailed Description	69
7.17.2	Constructor & Destructor Documentation	69
	7.17.2.1 LevelObject	69
	7.17.2.2 ~LevelObject	69
7.17.3	Member Function Documentation	69
	7.17.3.1 AddAIObject	69
	7.17.3.2 AddGamePiece	69
	7.17.3.3 Draw	69

	7.17.3.4 FireSpecialPower	70
	7.17.3.5 GetImageFolder	70
	7.17.3.6 GetTimerString	70
	7.17.3.7 Load	70
	7.17.3.8 Move	70
	7.17.3.9 Reload	71
	7.17.3.10 SetImageFolder	71
	7.17.3.11 SetLevelEndObject	71
	7.17.3.12 SetLevelFileName	71
	7.17.3.13 SetSpecialImages	71
	7.17.3.14 Start	72
	7.17.3.15 Update	72
7.17.4	Member Data Documentation	72
	7.17.4.1 m_activeAIList	72
	7.17.4.2 m_backGroundManager	72
	7.17.4.3 m_imageFolder	72
	7.17.4.4 m_levelEndObject	72
	7.17.4.5 m_levelFileName	72
	7.17.4.6 m_levelName	73
	7.17.4.7 m_levelObjects	73
	7.17.4.8 m_maxXOffset	73
	7.17.4.9 m_passiveAIList	73
	7.17.4.10 m_powerList	73
	7.17.4.11 m_screenEndIter	73
	7.17.4.12 m_screenStartIter	73
	7.17.4.13 m_screenWidth	73
	7.17.4.14 m_specialTextureIds	73
	7.17.4.15 m_timer	74
	7.17.4.16 m_xOffset	74
7.18 Menu (Class Reference	75
7.18.1	Detailed Description	75
7.18.2	Constructor & Destructor Documentation	75
	7.18.2.1 Menu	75
	7.18.2.2 ~Menu	76
7.18.3	Member Function Documentation	76
	7.18.3.1 AddMenuItem	76

7.18.3.2 Click	76
7.18.3.3 Draw	76
7.18.3.4 GetSelectedItemId	76
7.18.3.5 HandleKey	76
7.18.3.6 Update	77
7.18.4 Member Data Documentation	77
7.18.4.1 m_clickedId	77
7.18.4.2 m_items	77
7.18.4.3 m_selectedItem	77
7.18.4.4 m_textBase	77
7.19 MenuItem Class Reference	78
7.19.1 Detailed Description	78
7.19.2 Constructor & Destructor Documentation	78
7.19.2.1 MenuItem	78
7.19.2.2 ~MenuItem	78
7.19.3 Member Function Documentation	79
7.19.3.1 ContainPoint	79
7.19.3.2 Draw	79
7.19.3.3 GetId	79
7.19.3.4 SetSelectStatus	79
7.19.4 Member Data Documentation	79
7.19.4.1 m_menuId	79
7.19.4.2 m_position	79
7.19.4.3 m_selected	80
7.19.4.4 m_text	80
7.19.4.5 m_textBase	80
7.20 Point Struct Reference	81
7.20.1 Detailed Description	81
7.20.2 Constructor & Destructor Documentation	81
7.20.2.1 Point	81
7.20.3 Member Data Documentation	81
7.20.3.1 x	81
7.20.3.2 y	81
7.20.3.3 z	81
7.21 PowerObject Class Reference	82
7.21.1 Detailed Description	82

xii CONTENTS

	7 21 2	Constructor & Destructor Desumentation	82
	7.21.2	Constructor & Destructor Documentation	
		7.21.2.1 PowerObject	82
		7.21.2.2 ~PowerObject	83
	7.21.3	Member Function Documentation	83
		7.21.3.1 CheckCollision	83
		7.21.3.2 Collide	83
		7.21.3.3 Draw	83
		7.21.3.4 IsDead	83
		7.21.3.5 Update	84
	7.21.4	Member Data Documentation	84
		7.21.4.1 m_active	84
		7.21.4.2 m_direction	84
7.22	PowerU	UpBlock Class Reference	85
	7.22.1	Detailed Description	85
	7.22.2	Constructor & Destructor Documentation	85
		7.22.2.1 PowerUpBlock	85
		7.22.2.2 ~PowerUpBlock	86
	7.22.3	Member Function Documentation	86
		7.22.3.1 Collide	86
	7.22.4	Member Data Documentation	86
		7.22.4.1 m_blockUsed	86
		7.22.4.2 m_item	86
		7.22.4.3 m_textureIds	86
7 23	DowarI	UpItem Class Reference	87
1.23			
		Detailed Description	87
	1.23.2	Constructor & Destructor Documentation	87
		7.23.2.1 PowerUpItem	87
		7.23.2.2 ~PowerUpItem	88
	7.23.3	Member Function Documentation	88
		7.23.3.1 Activate	88
		7.23.3.2 CheckCollision	88
		7.23.3.3 Collide	88
		7.23.3.4 SetVerticalStatus	89
		7.23.3.5 Trigger	89
		7.23.3.6 Update	89
	7.23.4	Member Data Documentation	89

CONTENTS xiii

7.23.4.1 m_jumpHeight	89
7.23.4.2 m_triggered	89
7.24 RgbaColor Struct Reference	90
7.24.1 Detailed Description	90
7.24.2 Member Data Documentation	90
7.24.2.1 alpha	90
7.24.2.2 blue	90
7.24.2.3 green	90
7.24.2.4 red	90
7.25 ScoreManager Class Reference	91
7.25.1 Detailed Description	91
7.25.2 Constructor & Destructor Documentation	91
7.25.2.1 ScoreManager	91
7.25.2.2 ~ScoreManager	92
7.25.2.3 ScoreManager	92
7.25.3 Member Function Documentation	92
7.25.3.1 AddToScore	92
7.25.3.2 GetCurrentScore	92
7.25.3.3 Instance	92
7.25.3.4 NewLevel	92
7.25.3.5 operator=	92
7.25.3.6 Reset	93
7.25.3.7 ResetLevel	93
7.25.4 Member Data Documentation	93
7.25.4.1 m_instance	93
7.25.4.2 m_levelScore	93
7.25.4.3 m_score	93
7.26 Square Struct Reference	94
7.26.1 Detailed Description	94
7.26.2 Constructor & Destructor Documentation	94
7.26.2.1 Square	94
7.26.3 Member Data Documentation	94
7.26.3.1 bottom	94
7.26.3.2 left	94
7.26.3.3 right	94
7.26.3.4 top	94

	7.27	WorldC	Object Class Reference							
		7.27.1	Detailed Description							
		7.27.2	.27.2 Constructor & Destructor Documentation							
			7.27.2.1 WorldObject							
			7.27.2.2 ~WorldObject							
		7.27.3	Member Function Documentation							
			7.27.3.1 AddLevel							
			7.27.3.2 Draw							
			7.27.3.3 FireSpecialPower							
			7.27.3.4 GetTimerString							
			7.27.3.5 Move							
			7.27.3.6 RestartCurrentLevel							
			7.27.3.7 SetWorldName							
			7.27.3.8 Start							
			7.27.3.9 Update							
			7.27.3.10 WorldDone							
		7.27.4	Member Data Documentation							
			7.27.4.1 m_currentLevel							
			7.27.4.2 m_gameDude							
			7.27.4.3 m_levelList							
			7.27.4.4 m_worldName							
8	File 1	Docume	entation 101							
	8.1	branch	es/GameBase/AIObject.cpp File Reference							
	8.2	branch	es/GameBase/AIObject.h File Reference							
		8.2.1	Detailed Description							
	8.3	branch	es/GameBase/AIType1.cpp File Reference							
		8.3.1	Define Documentation							
			8.3.1.1 FALL_SPEED							
			8.3.1.2 LEFT							
			8.3.1.3 MOVE_DISTANCE							
			8.3.1.4 RIGHT							
			8.3.1.5 TRIGGER_DISTANCE							
	8.4	branche	es/GameBase/AIType1.h File Reference							
		8.4.1	Detailed Description							
	8.5	branch	es/GameBase/AIType2.cpp File Reference							
	8.6	branch	es/GameBase/AIType2.h File Reference							

	8.6.1	Detailed Description
8.7	branch	es/GameBase/AudioManager.cpp File Reference
	8.7.1	Detailed Description
8.8	branch	es/GameBase/AudioManager.h File Reference
	8.8.1	Detailed Description
	8.8.2	Enumeration Type Documentation
		8.8.2.1 SoundLookup
8.9	branch	es/GameBase/BackGroundManager.cpp File Reference
8.10	branch	es/GameBase/BackGroundManager.h File Reference
	8.10.1	Detailed Description
8.11	branch	es/GameBase/CollisionObject.h File Reference
	8.11.1	Detailed Description
8.12	branch	es/GameBase/ControlObject.cpp File Reference
8.13	branch	es/GameBase/ControlObject.h File Reference
	8.13.1	Detailed Description
	8.13.2	Enumeration Type Documentation
		8.13.2.1 Controls
8.14	branch	es/GameBase/Converter.cpp File Reference
8.15	branch	es/GameBase/Converter.h File Reference
	8.15.1	Detailed Description
8.16	branch	es/GameBase/GameBase.cpp File Reference
	8.16.1	Define Documentation
		8.16.1.1 FIRE_DELAY
8.17	branch	es/GameBase/GameBase.h File Reference
	8.17.1	Detailed Description
8.18	branch	es/GameBase/GameDude.cpp File Reference
	8.18.1	Define Documentation
		8.18.1.1 JUMP_HEIGHT
		8.18.1.2 JUMP_RATE
8.19	branch	es/GameBase/GameDude.h File Reference
	8.19.1	Detailed Description
8.20	branch	es/GameBase/GameEnums.h File Reference
	8.20.1	Detailed Description
	8.20.2	Enumeration Type Documentation
		8.20.2.1 CollisionSideEnum
		8.20.2.2 GameDudeStatus

	8.20.2.3 GameObjects	122
	8.20.2.4 GameState	122
	8.20.2.5 HoriztonalStatus	123
	8.20.2.6 ScoreObject	123
	8.20.2.7 StartMenuItem	123
	8.20.2.8 VerticalStatus	123
8.21	branches/GameBase/GameLoader.cpp File Reference	124
8.22	branches/GameBase/GameLoader.h File Reference	125
	8.22.1 Detailed Description	125
8.23	branches/GameBase/GamePiece.cpp File Reference	126
	8.23.1 Define Documentation	126
	8.23.1.1 _ENABLE_BREAKABLE_BLOCKS	126
8.24	branches/GameBase/GamePiece.h File Reference	127
	8.24.1 Detailed Description	127
8.25	branches/GameBase/GameStructs.h File Reference	128
	8.25.1 Detailed Description	128
	8.25.2 Define Documentation	128
	8.25.2.1 SQUARE_SIZE	128
8.26	branches/GameBase/GlApplication.cpp File Reference	129
	8.26.1 Define Documentation	129
	8.26.1.1 CLASS_NAME	129
	8.26.2 Function Documentation	129
	8.26.2.1 WindowProc	129
8.27	branches/GameBase/GlApplication.h File Reference	130
	8.27.1 Detailed Description	130
8.28	branches/GameBase/GlFrameworkObject.h File Reference	131
	8.28.1 Detailed Description	131
8.29	branches/GameBase/GlWindow.cpp File Reference	132
8.30	branches/GameBase/GlWindow.h File Reference	133
	8.30.1 Detailed Description	133
8.31	branches/GameBase/GraphicLoaders.h File Reference	134
	8.31.1 Detailed Description	134
8.32	branches/GameBase/KeyHandler.cpp File Reference	135
8.33	branches/GameBase/KeyHandler.h File Reference	136
	8.33.1 Detailed Description	136
	8.33.2 Define Documentation	136

CONTENTS xvii

		8.33.2.1 MAX_KEYS			136
8.34	branch	es/GameBase/LevelEndObject.cpp Fil	e Reference		137
8.35	branch	es/GameBase/LevelEndObject.h File	Reference		138
	8.35.1	Detailed Description			138
8.36	branch	es/GameBase/LevelObject.cpp File Re	eference		139
	8.36.1	Define Documentation			139
		8.36.1.1 CLIP_DISTANCE			139
		8.36.1.2 LEFT_MOVE_DISTANC	Е		139
		8.36.1.3 RIGHT_MOVE_DISTAN	CE		139
8.37	branch	es/GameBase/LevelObject.h File Refe	erence		140
	8.37.1	Detailed Description			140
8.38	branch	es/GameBase/main.cpp File Reference	e		141
	8.38.1	Function Documentation			141
		8.38.1.1 WinMain			141
8.39	branch	es/GameBase/Menu.cpp File Reference	e		142
	8.39.1	Define Documentation			142
		8.39.1.1 INVALID_ID			142
8.40	branch	es/GameBase/Menu.h File Reference			143
	8.40.1	Detailed Description			143
8.41	branch	es/GameBase/MenuItem.cpp File Ref	erence		144
8.42	branch	es/GameBase/MenuItem.h File Refere	ence		145
	8.42.1	Detailed Description			145
8.43	branch	es/GameBase/OpenAL/AL/alut.h File	Reference		146
	8.43.1	Define Documentation			147
		8.43.1.1 AL_ALUT_H			147
		8.43.1.2 ALUT_API			147
		8.43.1.3 ALUT_API_MAJOR_VE	RSION		147
		8.43.1.4 ALUT_API_MINOR_VE	RSION		147
		8.43.1.5 ALUT_APIENTRY			147
		8.43.1.6 ALUT_ATTRIBUTE_DE	PRECATED		148
		8.43.1.7 ALUT_ERROR_AL_ERR	OR_ON_ENTRY		148
		8.43.1.8 ALUT_ERROR_ALC_ER	ROR_ON_ENTRY		148
		8.43.1.9 ALUT_ERROR_BUFFER	_DATA		148
		8.43.1.10 ALUT_ERROR_CLOSE_	DEVICE		148
		8.43.1.11 ALUT_ERROR_CORRUI	PT_OR_TRUNCATED_DA	ТА	148
		8.43.1.12 ALUT_ERROR_CREATE	CONTEXT		148

xviii CONTENTS

	8.43.1.13	ALUT_ERROR_DESTROY_CONTEXT	148
	8.43.1.14	ALUT_ERROR_GEN_BUFFERS	148
	8.43.1.15	ALUT_ERROR_INVALID_ENUM	148
	8.43.1.16	ALUT_ERROR_INVALID_OPERATION	148
	8.43.1.17	ALUT_ERROR_INVALID_VALUE	149
	8.43.1.18	ALUT_ERROR_IO_ERROR	149
	8.43.1.19	ALUT_ERROR_MAKE_CONTEXT_CURRENT	149
	8.43.1.20	ALUT_ERROR_NO_CURRENT_CONTEXT	149
	8.43.1.21	ALUT_ERROR_NO_ERROR	149
	8.43.1.22	ALUT_ERROR_OPEN_DEVICE	149
	8.43.1.23	ALUT_ERROR_OUT_OF_MEMORY	149
	8.43.1.24	ALUT_ERROR_UNSUPPORTED_FILE_SUBTYPE	149
	8.43.1.25	ALUT_ERROR_UNSUPPORTED_FILE_TYPE	149
	8.43.1.26	ALUT_LOADER_BUFFER	149
	8.43.1.27	ALUT_LOADER_MEMORY	149
	8.43.1.28	ALUT_WAVEFORM_IMPULSE	150
	8.43.1.29	ALUT_WAVEFORM_SAWTOOTH	150
	8.43.1.30	ALUT_WAVEFORM_SINE	150
	8.43.1.31	ALUT_WAVEFORM_SQUARE	150
	8.43.1.32	ALUT_WAVEFORM_WHITENOISE	150
8.43.2	Function	Documentation	152
	8.43.2.1	alutCreateBufferFromFile	152
	8.43.2.2	alutCreateBufferFromFileImage	152
	8.43.2.3	alutCreateBufferHelloWorld	152
	8.43.2.4	alutCreateBufferWaveform	152
	8.43.2.5	alutExit	152
	8.43.2.6	alutGetError	152
	8.43.2.7	alutGetErrorString	152
	8.43.2.8	alutGetMajorVersion	152
	8.43.2.9	alutGetMIMETypes	152
	8.43.2.10	alutGetMinorVersion	152
	8.43.2.11	alutInit	152
	8.43.2.12	alutInitWithoutContext	152
	8.43.2.13	alutLoadMemoryFromFile	152
	8.43.2.14	alutLoadMemoryFromFileImage	152
	8.43.2.15	alutLoadMemoryHelloWorld	152

CONTENTS xix

		8.43.2.16 a	alutLoadMe	emoryWa	aveform	1		 	 		 . 152
		8.43.2.17	alutLoadW	AVFile .				 	 		 . 152
		8.43.2.18 a	alutLoadW	AVMemo	ory			 	 		 . 152
		8.43.2.19	alutSleep .					 	 		 . 152
		8.43.2.20 a	alutUnload	WAV				 	 		 . 152
8.44	branch	es/GameBas	se/Point.h F	ile Refer	rence .			 	 		 . 153
	8.44.1	Detailed D	escription					 	 		 . 153
8.45	branch	es/GameBas	se/PowerOb	oject.cpp	File Re	eference		 	 		 . 154
	8.45.1	Define Doo	cumentation	n				 	 	. 	 . 154
		8.45.1.1 I	LEFT					 	 	. 	 . 154
		8.45.1.2 I	MOVE_SP	EED				 	 	. 	 . 154
		8.45.1.3 I	RIGHT					 	 		 . 154
8.46	branch	es/GameBas	se/PowerOb	oject.h Fi	ile Refe	rence .		 	 		 . 155
	8.46.1	Detailed D	escription					 	 		 . 155
8.47	branch	es/GameBas	se/PowerUp	Block.cj	pp File	Referen	ce	 	 		 . 156
8.48	branch	es/GameBas	se/PowerUp	Block.h	File Re	eference		 	 		 . 157
	8.48.1	Detailed D	escription					 	 		 . 157
8.49	branch	es/GameBas	se/PowerUp	oItem.cpp	p File R	Referenc	e	 	 	. 	 . 158
	8.49.1	Define Doo	cumentation	n				 	 		 . 158
		8.49.1.1 N	MOVE_RA	TE				 	 		 . 158
		8.49.1.2 V	VERTICAL	_RATE				 	 	. 	 . 158
8.50	branch	es/GameBas	se/PowerUp	oItem.h F	File Ref	erence .		 	 		 . 159
	8.50.1	Detailed D	escription					 	 		 . 159
8.51	branch	es/GameBas	se/RgbaCol	or.h File	Refere	nce		 	 		 . 160
	8.51.1	Detailed D	escription					 	 		 . 160
8.52	branch	es/GameBas	se/ScoreMa	ınager.cp	p File F	Referenc	e	 	 		 . 161
8.53	branch	es/GameBas	se/ScoreMa	ınager.h I	File Ref	ference		 	 		 . 162
	8.53.1	Detailed D	escription					 	 		 . 162
8.54	branch	es/GameBas	se/UtilFunc	tions.cpp	p File R	eference	e	 	 		 . 163
8.55	branch	es/GameBas	se/UtilFunc	tions.h F	File Refe	erence .		 	 		 . 164
	8.55.1	Detailed D	escription					 	 		 . 164
8.56	branch	es/GameBas	se/Window	Proc.cpp	File Re	eference		 	 		 . 165
	8.56.1	Function D	Ocumentat	ion				 	 		 . 165
		8.56.1.1 V	WindowPro	с				 	 		 . 165
8.57	branch	es/GameBas	se/WorldOt	oject.cpp	File Re	eference		 	 		 . 166
8.58	branch	es/GameBas	se/WorldOt	oject.h Fi	ile Refe	rence .		 	 	. 	 . 167

XX			CON	NTENTS		
	8.58.1	Detailed Description		. 167		

Generated on Sun Apr 11 19:42:53 2010 for Super Eastgate by Doxygen $\,$

Chapter 1

Todo List

Member LevelObject::Reload() : Refactor to remove calls to this method

File Point.h Merge this file into GameStructs

File RgbaColor.h Merge this file into GameStructs.h

2 Todo List

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Converter (Conversion Functions)	11
GameLoader (Used to convert images into openGL texture ids)	14
GraphicLoaders (Loads Graphics)	16
UtilFunctions (Utility Functions Contains several useful functions that fail to fit elsewhere)	18

4 Namespace Index

Chapter 3

Class Index

3.1 Class Hierarchy

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

AudioManager	9
BackGroundManager	4
CollisionObject	6
GamePiece	1
AIObject	1
AIType1	4
AIType2	
PowerUpItem	7
GameDude	5
LevelEndObject	
PowerObject	
PowerUpBlock	
ControlObject	
Converter::ConverterException	
GlApplication	4
GameBase	1
GIFrameworkObject	9
GameDude	5
Menu	5
WorldObject	6
GIWindow	0
KeyHandler	4
LevelObject	
MenuItem	
Point	
RgbaColor	
ScoreManager	Т
Square	4

6 Class Index

Chapter 4

Class Index

4.1 Class List

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

AlObject (Base class for all Al controled objects)
AIType1 (Dumb AI Class)
AIType2 (Not so dumb AI Class)
AudioManager (Singeton Object to play and pause sounds)
BackGroundManager (Displays the background of the game)
CollisionObject (Basic Collision Detection Object)
ControlObject (Keyboard Control Manager)
Converter::ConverterException (Converter Exception)
GameBase (Primary Game Class)
GameDude (The player avatar)
GamePiece (General Game Object)
GlApplication (Base Class for OpenGl Applications)
GlFrameworkObject (Interface for objects to interact with GlApplication)
GlWindow (Window in Windows)
KeyHandler (Manages key presses)
LevelEndObject (Object used to track if a level has ended)
LevelObject (Level in the game)
Menu (Menu Class)
MenuItem (Items that appear within a menu)
Point (A single point Represents a single point in openGL space)
PowerObject (The special power) 82
PowerUpBlock (Block that creates a PowerUpItem)
PowerUpItem (Power Up Item) 87
RgbaColor (OpenGL Color)
ScoreManager (Tracks the players score)
Square (I'm a square)
WorldObject (World in the game)

8 Class Index

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

branches/GameBase/AIObject.cpp
branches/GameBase/AIObject.h
branches/GameBase/AIType1.cpp
branches/GameBase/AIType1.h
branches/GameBase/AIType2.cpp
branches/GameBase/AIType2.h
branches/GameBase/AudioManager.cpp
branches/GameBase/AudioManager.h
branches/GameBase/BackGroundManager.cpp
branches/GameBase/BackGroundManager.h
branches/GameBase/CollisionObject.h
branches/GameBase/ControlObject.cpp
branches/GameBase/ControlObject.h
branches/GameBase/Converter.cpp
branches/GameBase/Converter.h
branches/GameBase/GameBase.cpp
branches/GameBase/GameBase.h
branches/GameBase/GameDude.cpp
branches/GameBase/GameDude.h
branches/GameBase/GameEnums.h
branches/GameBase/GameLoader.cpp
branches/GameBase/GameLoader.h
branches/GameBase/GamePiece.cpp
branches/GameBase/GamePiece.h
branches/GameBase/GameStructs.h
branches/GameBase/GlApplication.cpp
branches/GameBase/GlApplication.h
branches/GameBase/GlFrameworkObject.h
branches/GameBase/GlWindow.cpp
branches/GameBase/GlWindow.h
branches/GameBase/GraphicLoaders.h
branches/GameBase/KeyHandler.cpp
branches/ComePess/WayHandler h

10 File Index

branches/GameBase/LevelEndObject.cpp
branches/GameBase/LevelEndObject.h
branches/GameBase/LevelObject.cpp
branches/GameBase/LevelObject.h
branches/GameBase/main.cpp
branches/GameBase/Menu.cpp
branches/GameBase/Menu.h
branches/GameBase/MenuItem.cpp
branches/GameBase/MenuItem.h
branches/GameBase/Point.h
branches/GameBase/PowerObject.cpp
branches/GameBase/PowerObject.h
branches/GameBase/PowerUpBlock.cpp
branches/GameBase/PowerUpBlock.h
branches/GameBase/PowerUpItem.cpp
branches/GameBase/PowerUpItem.h
branches/GameBase/RgbaColor.h
branches/GameBase/ScoreManager.cpp
branches/GameBase/ScoreManager.h
branches/GameBase/UtilFunctions.cpp
branches/GameBase/UtilFunctions.h
branches/GameBase/WindowProc.cpp
branches/GameBase/WorldObject.cpp
branches/GameBase/WorldObject.h
hranches/GameRase/OpenAI /AI /alut h

Chapter 6

Namespace Documentation

6.1 Converter Namespace Reference

Conversion Functions.

Classes

• class ConverterException

Converter Exception.

Functions

- std::string IntToString (const int &value)
- std::string UIntToString (const unsigned int &value)
- int StringToInt (const std::string &value)
- double StringToDouble (const std::string &value)
- unsigned int StringToUInt (const std::string &value)
- std::wstring StringToWString (const std::string &stringToConvert)
- std::string WStringToString (const std::wstring &stringToConvert)

6.1.1 Detailed Description

Conversion Functions. This is the converter utility functions This namespace supplies funtions to perform basic string conversions

6.1.2 Function Documentation

6.1.2.1 std::string Converter::IntToString (const int & value)

Function to convert an interger into a string

Parameters:

value integer to convert

Returns:

interger as a string

Definition at line 6 of file Converter.cpp.

6.1.2.2 double Converter::StringToDouble (const std::string & value)

Function to convert a string into a double

Parameters:

value string to convert

Returns:

double

Definition at line 48 of file Converter.cpp.

6.1.2.3 int Converter::StringToInt (const std::string & value)

Function to convert a string into a signed integer

Parameters:

value string to convert

Returns:

signed interger

Definition at line 20 of file Converter.cpp.

6.1.2.4 unsigned int Converter::StringToUInt (const std::string & value)

Function to convert a string into an unsigned integer

Parameters:

value string to convert

Returns:

unsigned interger

Definition at line 34 of file Converter.cpp.

6.1.2.5 std::wstring Converter::StringToWString (const std::string & stringToConvert)

Function to convert a string into a wstring

Parameters:

stringToConvert string to convert

Returns:

convert string

Definition at line 62 of file Converter.cpp.

6.1.2.6 std::string Converter::UIntToString (const unsigned int & value)

Function to convert an unsigned interger into a string

Parameters:

value unsigned integer to convert

Returns:

interger as a string

Definition at line 13 of file Converter.cpp.

6.1.2.7 std::string Converter::WStringToString (const std::wstring & stringToConvert)

Function to convert a wstring into a string

Parameters:

stringToConvert string to convert

Returns:

convert string

Definition at line 69 of file Converter.cpp.

6.2 GameLoader Namespace Reference

Used to convert images into openGL texture ids.

Functions

- bool RunLoader (const std::wstring &worldsFileName, std::list< WorldObject * > &list, Game-Dude *dude)
- bool LoadLevel (const std::wstring &levelFileName, LevelObject *level)
- Square GameGridToCoords (double x, double y)

6.2.1 Detailed Description

Used to convert images into openGL texture ids. This namespace supplies the neccessary functions to load All game control objects from the given files

6.2.2 Function Documentation

6.2.2.1 Square GameLoader::GameGridToCoords (double x, double y)

Method to convert from the game grid to openGL coords

Parameters:

- x X coord of the grid
- y Y corrd of the grid

Returns:

Square representing the openGL coords of the grid

Definition at line 207 of file GameLoader.cpp.

6.2.2.2 bool GameLoader::LoadLevel (const std::wstring & levelFileName, LevelObject * level)

Loads a given level from a file

Parameters:

levelFileName Level File to load

level LevelObject to load

Returns:

True on success

Definition at line 85 of file GameLoader.cpp.

6.2.2.3 bool GameLoader::RunLoader (const std::wstring & worldsFileName, std::list < WorldObject * > & list, GameDude * dude)

Loads the world list with WorldObjects from the worldsFileName

Parameters:

worldsFileName File Path to a worlds filelist World List to loaddude GameDude to hand to each world

Returns:

True on success

Definition at line 23 of file GameLoader.cpp.

6.3 GraphicLoaders Namespace Reference

Loads Graphics.

Typedefs

• typedef unsigned int TextureIdentifier

Functions

- bool LoadNewBitmap (const std::wstring &fileName, TextureIdentifier &textureId)
- bool LoadTga (const std::wstring &fileName, TextureIdentifier &textureId)
- bool LoadTga (const std::string &fileName, TextureIdentifier &textureId)

6.3.1 Detailed Description

Loads Graphics. Namespace to load different graphic formats into openGL textures This namespace primarily wraps the SOIL libary

6.3.2 Typedef Documentation

6.3.2.1 typedef unsigned int GraphicLoaders::TextureIdentifier

ID used to represent a openGL texture

Definition at line 26 of file GraphicLoaders.h.

6.3.3 Function Documentation

6.3.3.1 bool GraphicLoaders::LoadNewBitmap (const std::wstring & fileName, TextureIdentifier & textureId)

Loads a Bitmap image into openGL

Parameters:

```
fileName File to load textureId Storage location for the textureId
```

Returns:

True is successful

6.3.3.2 bool GraphicLoaders::LoadTga (const std::string & fileName, TextureIdentifier & textureId)

6.3.3.3 bool GraphicLoaders::LoadTga (const std::wstring & fileName, TextureIdentifier & textureId)

Loads a Bitmap image into openGL

Parameters:

fileName File to loadtextureId Storage location for the textureId

Returns:

True is successful

6.4 UtilFunctions Namespace Reference

Utility Functions Contains several useful functions that fail to fit elsewhere.

Typedefs

- typedef std::vector< std::string * > StringTokensType
- typedef StringTokensType * StringTokens

Functions

- std::string TrimWhiteSpace (const std::string &startString)
- UtilFunctions::StringTokens StringTokenizer (const std::string &baseString, const std::string &delimiters)
- UtilFunctions::StringTokens StringTokenizer2 (const std::string &baseString, const std::string &delimiters)
- void DestroyStringTokens (UtilFunctions::StringTokens tokens)

6.4.1 Detailed Description

Utility Functions Contains several useful functions that fail to fit elsewhere.

6.4.2 Typedef Documentation

6.4.2.1 UtilFunctions::StringTokens

The full data type of the object returned by the string tokenizers

Definition at line 34 of file UtilFunctions.h.

6.4.2.2 UtilFunctions::StringTokensType

The core data type of the object returned by the string tokenizers

Definition at line 28 of file UtilFunctions.h.

6.4.3 Function Documentation

6.4.3.1 void UtilFunctions::DestroyStringTokens (UtilFunctions::StringTokens tokens)

Function to clean up the tokens returned by the tokenizers

Parameters:

tokens Tokens to clean up

Definition at line 79 of file UtilFunctions.cpp.

6.4.3.2 UtilFunctions::StringTokens UtilFunctions::StringTokenizer (const std::string & baseString, const std::string & delimiters)

Method to break up a given string into smaller piece at given points Method does not return empty tokens

Parameters:

baseString String to tokenizedelimiters String containing the characters to break the baseString on

Returns:

StringTokens contains each piece of the broken string

Definition at line 32 of file UtilFunctions.cpp.

6.4.3.3 UtilFunctions::StringTokens UtilFunctions::StringTokenizer2 (const std::string & baseString, const std::string & delimiters)

Method to break up a given string into smaller piece at given points Method does return empty tokens

Parameters:

baseString String to tokenizedelimiters String containing the characters to break the baseString on

Returns:

StringTokens contains each piece of the broken string

Definition at line 49 of file UtilFunctions.cpp.

6.4.3.4 std::string UtilFunctions::TrimWhiteSpace (const std::string & startString)

Method to trim white space off a string

Parameters:

startString string to trim

Returns:

a trimmed string

Definition at line 17 of file UtilFunctions.cpp.

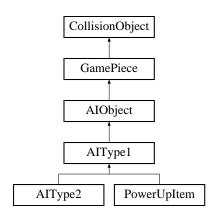
Chapter 7

Class Documentation

7.1 AIObject Class Reference

Base class for all AI controled objects.

#include <AIObject.h>Inheritance diagram for AIObject::



Public Member Functions

- AIObject (const Square &startingPos, unsigned int textureId)
- virtual void SetVerticalStatus (VerticalStatus status)
- virtual bool Trigger (double xOffset)=0
- virtual void Update (int ticks)=0
- virtual void Draw ()
- virtual bool GetActiveStatus ()

Protected Attributes

- VerticalStatus m_vStatus
- double m_gameFloor
- bool m_active
- bool m_killed

7.1.1 Detailed Description

Base class for all AI controlled objects. Base class for all AI controlled objects Definition at line 20 of file AIObject.h.

7.1.2 Constructor & Destructor Documentation

7.1.2.1 AIObject::AIObject (const Square & startingPos, unsigned int textureId)

Constructor

Parameters:

```
startingPos Starting location of the AI objecttextureId Image to display for the object
```

Definition at line 6 of file AIObject.cpp.

7.1.3 Member Function Documentation

7.1.3.1 void AIObject::Draw() [virtual]

General Draw Method for the AI Object

Reimplemented from GamePiece.

Definition at line 20 of file AIObject.cpp.

7.1.3.2 bool AIObject::GetActiveStatus() [virtual]

Method to check if the AI Object is currently active in the game

Returns:

True if the object is active

Definition at line 32 of file AIObject.cpp.

7.1.3.3 void AIObject::SetVerticalStatus (VerticalStatus status) [virtual]

Sets the current Vertical Status of the AI object

Parameters:

status New vertical status for the AIObject

Reimplemented in PowerUpItem.

Definition at line 15 of file AIObject.cpp.

7.1.3.4 virtual bool AIObject::Trigger (double xOffset) [pure virtual]

Checks to see if the AI Object is within range of the game dude.

Parameters:

xOffset The current x offset of the game dude from the level start

Returns:

True if AI Object should be triggered

Implemented in AIType1, and PowerUpItem.

7.1.3.5 virtual void AIObject::Update (int ticks) [pure virtual]

Performs the update on the AI Object

Parameters:

ticks Number of ticks that have passed since the last update

Implemented in AIType1, AIType2, and PowerUpItem.

7.1.4 Member Data Documentation

7.1.4.1 bool AIObject::m_active [protected]

If the current AI has been activated

Definition at line 72 of file AIObject.h.

7.1.4.2 double AIObject::m_gameFloor [protected]

The game floor. If the Y of the AI object drops below this, it should go inactive Definition at line 67 of file AIObject.h.

7.1.4.3 bool AIObject::m_killed [protected]

If the AI has been killed

Definition at line 77 of file AIObject.h.

7.1.4.4 VerticalStatus AIObject::m_vStatus [protected]

The current vertical status of the AI Object

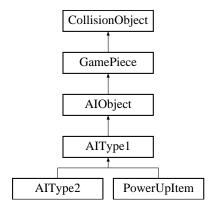
Definition at line 62 of file AIObject.h.

- branches/GameBase/AIObject.h
- branches/GameBase/AIObject.cpp

7.2 AIType1 Class Reference

Dumb AI Class.

#include <AIType1.h>Inheritance diagram for AIType1::



Public Member Functions

- AIType1 (const Square &startingPos, unsigned int leftTextureId, unsigned int rightTextureId)
- virtual ~AIType1 ()
- virtual void **Update** (int ticks)
- virtual bool Trigger (double xOffset)
- virtual bool Collide (CollisionSideEnum side, int damage)
- virtual bool CheckCollision (CollisionObject *object)

Protected Member Functions

• void SwitchDirections (bool direction)

Protected Attributes

- bool m_direction
- unsigned int m_textureIds [2]

7.2.1 Detailed Description

Dumb AI Class. Style 1 AI Controlled Enemy AI will bounce of blocks and walk of cliffs Definition at line 23 of file AIType1.h.

7.2.2 Constructor & Destructor Documentation

7.2.2.1 AIType1::AIType1 (const Square & startingPos, unsigned int leftTextureId, unsigned int rightTextureId)

Constructor

Parameters:

startingPos Starting Position of the AIleftTextureId OpenGl TextureId for the image to display when the AI is moving left.rightTextureId OpenGl TextureId for the image to display when the AI is moving right.

Definition at line 12 of file AIType1.cpp.

7.2.2.2 AIType1::~AIType1() [virtual]

Destructor

Definition at line 20 of file AIType1.cpp.

7.2.3 Member Function Documentation

7.2.3.1 bool AIType1::CheckCollision (CollisionObject * object) [virtual]

Checks to see if object has collided with the current object

Parameters:

object Object to check a collision against

Returns:

true if the object collided

Reimplemented from GamePiece.

Reimplemented in PowerUpItem.

Definition at line 80 of file AIType1.cpp.

7.2.3.2 bool AIType1::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hitdamage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Reimplemented from GamePiece.

Reimplemented in AIType2, and PowerUpItem.

Definition at line 55 of file AIType1.cpp.

7.2.3.3 void AIType1::SwitchDirections (bool direction) [protected]

Method used to switch the moving direction of the AIObject This method handles the textureIds and other status updates

Definition at line 120 of file AIType1.cpp.

7.2.3.4 bool AIType1::Trigger (double *xOffset*) [virtual]

Checks to see if the AI Object is within range of the game dude.

Parameters:

xOffset The current x offset of the game dude from the level start

Returns:

True if AI Object should be triggered

Implements AIObject.

Reimplemented in PowerUpItem.

Definition at line 45 of file AIType1.cpp.

7.2.3.5 void AIType1::Update (int ticks) [virtual]

Performs the update on the AI Object

Parameters:

ticks Number of ticks that have passed since the last update

Implements AIObject.

Reimplemented in AIType2, and PowerUpItem.

Definition at line 24 of file AIType1.cpp.

7.2.4 Member Data Documentation

7.2.4.1 bool AIType1::m_direction [protected]

Monitors the moving direction of the AI Object

Definition at line 69 of file AIType1.h.

7.2.4.2 unsigned int AIType1::m_textureIds[2] [protected]

List of texture ids used during the operation of the object

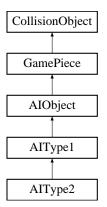
Definition at line 74 of file AIType1.h.

- branches/GameBase/AIType1.h
- branches/GameBase/AIType1.cpp

7.3 AIType2 Class Reference

Not so dumb AI Class.

#include <AIType2.h>Inheritance diagram for AIType2::



Public Member Functions

- AIType2 (const Square &startingPos, unsigned int leftTextureId, unsigned int rightTextureId)
- virtual ~AIType2 ()
- virtual void **Update** (int ticks)
- virtual bool Collide (CollisionSideEnum side, int damage)

Protected Attributes

• int m_verticalCollisionsThisPass

7.3.1 Detailed Description

Not so dumb AI Class. Style 2 AI Controlled Enemy AI will bounce of blocks and will not walk of cliffs Definition at line 23 of file AIType2.h.

7.3.2 Constructor & Destructor Documentation

7.3.2.1 AIType2::AIType2 (const Square & startingPos, unsigned int leftTextureId, unsigned int rightTextureId)

Constructor

Parameters:

startingPos Starting Position of the AIleftTextureId OpenGl TextureId for the image to display when the AI is moving left.rightTextureId OpenGl TextureId for the image to display when the AI is moving right.

Definition at line 3 of file AIType2.cpp.

7.3.2.2 AIType2::~AIType2() [virtual]

Destructor

Definition at line 9 of file AIType2.cpp.

7.3.3 Member Function Documentation

7.3.3.1 bool AIType2::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hitdamage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Reimplemented from AIType1.

Definition at line 23 of file AIType2.cpp.

7.3.3.2 void AIType2::Update (int ticks) [virtual]

Performs the update on the AI Object Calls AIType1::Update after performing simple logic for Type 2

Parameters:

ticks Number of ticks that have passed since the last update

Reimplemented from AIType1.

Definition at line 13 of file AIType2.cpp.

7.3.4 Member Data Documentation

7.3.4.1 int AIType2::m_verticalCollisionsThisPass [protected]

Traces the number of collides per update. Cleared to 0 with every call of update. If 1, the direction of the AI object will flip

Definition at line 58 of file AIType2.h.

- branches/GameBase/AIType2.h
- branches/GameBase/AIType2.cpp

7.4 AudioManager Class Reference

Singeton Object to play and pause sounds.

#include <AudioManager.h>

Public Member Functions

- void SetListenerValues ()
- void LoadSound (SoundLookup loadSound, char *soundFilePath, bool isLoop)
- void PlayALSource (SoundLookup playSound)
- void StopALSource (SoundLookup stopSound)
- void HoldALSource (SoundLookup holdSound)

Static Public Member Functions

• static AudioManager * Instance ()

Protected Member Functions

- AudioManager ()
- ∼AudioManager ()
- AudioManager (const AudioManager &)
- AudioManager & operator= (const AudioManager &)

Private Attributes

- ALuint m_Song1Buff
- ALuint m_Song2Buff
- ALuint m_Song3Buff
- ALuint m_PowerupBuff
- ALuint m_CheckpointBuff
- ALuint m_CoinBuff
- ALuint m_HitBrickBuff
- ALuint m_Song1Src
- ALuint m_Song2Src
- ALuint m_Song3Src
- ALuint m_PowerupSrc
- ALuint m_CheckpointSrc
- ALuint m_CoinSrc
- ALuint m_HitBrickSrc
- ALfloat SourcePos [3]
- ALfloat SourceVel [3]
- ALfloat ListenerPos [3]
- ALfloat ListenerVel [3]
- ALfloat ListenerOri [6]

Static Private Attributes

• static AudioManager * m_instance = 0

7.4.1 Detailed Description

Singeton Object to play and pause sounds. This is the AudioManager class for the SuperEastGate. The functions this class performs are; looping background sounds, gameplay sounds based on action, pausing sounds, stopping sounds, and possibly loading sounds on demmand.

Definition at line 46 of file AudioManager.h.

7.4.2 Constructor & Destructor Documentation

7.4.2.1 AudioManager::AudioManager() [protected]

Constructor that sets up all the components for the LoadSound method to work Definition at line 23 of file AudioManager.cpp.

7.4.2.2 AudioManager::~AudioManager() [protected]

Destructor that unloads and detatches sounds from their buffers.

Definition at line 41 of file AudioManager.cpp.

7.4.2.3 AudioManager::AudioManager (const AudioManager &) [protected]

7.4.3 Member Function Documentation

7.4.3.1 void AudioManager::HoldALSource (SoundLookup holdSound)

HoldALSource method that will hold a current sound state

Parameters:

holdSound Sound ID for the buffer to pause

Definition at line 352 of file AudioManager.cpp.

7.4.3.2 AudioManager * AudioManager::Instance () [static]

Method to obtain the instance of this singleton object

Returns:

The singleton instance of the AudioManager

Definition at line 383 of file AudioManager.cpp.

7.4.3.3 void AudioManager::LoadSound (SoundLookup loadSound, char * soundFilePath, bool isLoop)

LoadSound method that loads a specific sound on demmand

Parameters:

loadSound Sound ID for the buffer to loadsoundFilePath Path to the way file to loadisLoop Should the sound loop once started

Definition at line 73 of file AudioManager.cpp.

7.4.3.4 AudioManager & AudioManager::operator=(const AudioManager &) [protected]

7.4.3.5 void AudioManager::PlayALSource (SoundLookup playSound)

PlayALSource method that will play an imputted source

Parameters:

playSound Sound ID for the buffer to play

Definition at line 292 of file AudioManager.cpp.

7.4.3.6 void AudioManager::SetListenerValues ()

SetListenerValues method that tells the listener where to listen from.

Definition at line 65 of file AudioManager.cpp.

7.4.3.7 void AudioManager::StopALSource (SoundLookup stopSound)

StopALSource method that will stop an imputted source

Parameters:

stopSound Sound ID for the buffer to stop

Definition at line 322 of file AudioManager.cpp.

7.4.4 Member Data Documentation

7.4.4.1 ALfloat AudioManager::ListenerOri[6] [private]

Definition at line 127 of file AudioManager.h.

7.4.4.2 ALfloat AudioManager::ListenerPos[3] [private]

Definition at line 125 of file AudioManager.h.

7.4.4.3 ALfloat AudioManager::ListenerVel[3] [private]

Definition at line 126 of file AudioManager.h.

7.4.4.4 ALuint AudioManager::m_CheckpointBuff [private]

Definition at line 110 of file AudioManager.h.

7.4.4.5 ALuint AudioManager::m_CheckpointSrc [private]

Definition at line 119 of file AudioManager.h.

7.4.4.6 ALuint AudioManager::m CoinBuff [private]

Definition at line 111 of file AudioManager.h.

7.4.4.7 ALuint AudioManager::m_CoinSrc [private]

Definition at line 120 of file AudioManager.h.

7.4.4.8 ALuint AudioManager::m_HitBrickBuff [private]

Definition at line 112 of file AudioManager.h.

7.4.4.9 ALuint AudioManager::m_HitBrickSrc [private]

Definition at line 121 of file AudioManager.h.

7.4.4.10 AudioManager * AudioManager::m_instance = 0 [static, private]

Definition at line 103 of file AudioManager.h.

7.4.4.11 ALuint AudioManager::m_PowerupBuff [private]

Definition at line 109 of file AudioManager.h.

7.4.4.12 ALuint AudioManager::m_PowerupSrc [private]

Definition at line 118 of file AudioManager.h.

7.4.4.13 ALuint AudioManager::m_Song1Buff [private]

Definition at line 105 of file AudioManager.h.

7.4.4.14 ALuint AudioManager::m_Song1Src [private]

Definition at line 114 of file AudioManager.h.

7.4.4.15 ALuint AudioManager::m_Song2Buff [private]

Definition at line 106 of file AudioManager.h.

7.4.4.16 ALuint AudioManager::m_Song2Src [private]

Definition at line 115 of file AudioManager.h.

7.4.4.17 ALuint AudioManager::m_Song3Buff [private]

Definition at line 107 of file AudioManager.h.

7.4.4.18 ALuint AudioManager::m_Song3Src [private]

Definition at line 116 of file AudioManager.h.

7.4.4.19 ALfloat AudioManager::SourcePos[3] [private]

Definition at line 123 of file AudioManager.h.

7.4.4.20 ALfloat AudioManager::SourceVel[3] [private]

Definition at line 124 of file AudioManager.h.

- branches/GameBase/AudioManager.h
- branches/GameBase/AudioManager.cpp

7.5 BackGroundManager Class Reference

Displays the background of the game.

#include <BackGroundManager.h>

Public Member Functions

- BackGroundManager (const std::wstring &backgroundPath, double screenWidth, double screen-Height, double backgroundCameraPercent)
- ∼BackGroundManager ()
- void Draw (double xOffset)

Private Attributes

- GraphicLoaders::TextureIdentifier m_background
- double m_screenWidth
- double m_screenHeight
- double m_cameraPercent

7.5.1 Detailed Description

Displays the background of the game. Class to manage which section of the background image to display to the user.

Definition at line 23 of file BackGroundManager.h.

7.5.2 Constructor & Destructor Documentation

7.5.2.1 BackGroundManager::BackGroundManager (const std::wstring & backgroundPath, double screenWidth, double screenHeight, double backgroundCameraPercent)

Constructor

Parameters:

backgroundPath Path to the background image to load
screenWidth Width of the screen in openGL units
screenHeight Height of the screen in openGL units
backgroundCameraPercent Percentage of the image to display at any one given time

Definition at line 6 of file BackGroundManager.cpp.

7.5.2.2 BackGroundManager::~BackGroundManager ()

Desctructor

Definition at line 15 of file BackGroundManager.cpp.

7.5.3 Member Function Documentation

7.5.3.1 void BackGroundManager::Draw (double xOffset)

Method to draw the background image

Parameters:

xOffset Distance the left side of the screen is from the start of the level

Definition at line 19 of file BackGroundManager.cpp.

7.5.4 Member Data Documentation

7.5.4.1 GraphicLoaders::TextureIdentifier BackGroundManager::m_background [private]

Image id of the background image

Definition at line 49 of file BackGroundManager.h.

7.5.4.2 double BackGroundManager::m_cameraPercent [private]

Percentage of the image to display at any one given time

Definition at line 64 of file BackGroundManager.h.

7.5.4.3 double BackGroundManager::m_screenHeight [private]

Height of the screen in openGL Units

Definition at line 59 of file BackGroundManager.h.

7.5.4.4 double BackGroundManager::m_screenWidth [private]

Width of the screen in openGL Units

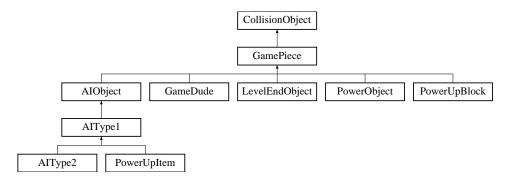
Definition at line 54 of file BackGroundManager.h.

- branches/GameBase/BackGroundManager.h
- branches/GameBase/BackGroundManager.cpp

7.6 CollisionObject Class Reference

Basic Collision Detection Object.

#include <CollisionObject.h>Inheritance diagram for CollisionObject::



Private Member Functions

- virtual bool CheckCollision (CollisionObject *object)=0
- virtual bool Collide (CollisionSideEnum side, int damage)=0

7.6.1 Detailed Description

Basic Collision Detection Object. This class provides the proper interface needed to perfrom the collision detection used throughout the game

Definition at line 21 of file CollisionObject.h.

7.6.2 Member Function Documentation

7.6.2.1 virtual bool CollisionObject::CheckCollision (CollisionObject * object) [private, pure virtual]

Checks to see if object has collided with the current object

Parameters:

object Object to check a collision against

Returns:

true if the object collided

7.6.2.2 virtual bool CollisionObject::Collide (CollisionSideEnum side, int damage) [private, pure virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hit

damage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Implemented in AIType1, AIType2, GameDude, GamePiece, PowerObject, PowerUpBlock, and PowerUpItem.

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

• branches/GameBase/CollisionObject.h

7.7 ControlObject Class Reference

Keyboard Control Manager.

#include <ControlObject.h>

Public Member Functions

- ControlObject ()
- virtual ~ControlObject ()
- unsigned int GetControlKey (Controls control)
- void SetControlKey (Controls control, unsigned int key)
- void LoadControls (const std::wstring &fileName)
- unsigned int StringToKey (const std::string *keyString)

Private Attributes

• unsigned int m_controlKeys [CO_MAX_CONTROL]

7.7.1 Detailed Description

Keyboard Control Manager. Utility Object to manage user configured controls for the game Definition at line 35 of file ControlObject.h.

7.7.2 Constructor & Destructor Documentation

7.7.2.1 ControlObject::ControlObject ()

Constructor

Definition at line 8 of file ControlObject.cpp.

7.7.2.2 ControlObject::~ControlObject() [virtual]

Destructor

Definition at line 18 of file ControlObject.cpp.

7.7.3 Member Function Documentation

7.7.3.1 unsigned int ControlObject::GetControlKey (Controls control)

Obtains the keyboard key number for a given control

Parameters:

control Control Id of the command to obtain

Returns:

Keyboard code for the command

Definition at line 22 of file ControlObject.cpp.

7.7.3.2 void ControlObject::LoadControls (const std::wstring & fileName)

Loads a config file for the control set

Parameters:

fileName File Path to the control file

Definition at line 36 of file ControlObject.cpp.

7.7.3.3 void ControlObject::SetControlKey (Controls control, unsigned int key)

Sets the control key for a given control

Parameters:

control Control to configure

key New key to map to the control

Definition at line 31 of file ControlObject.cpp.

7.7.3.4 unsigned int ControlObject::StringToKey (const std::string * keyString)

Converts a string into the predefined keyboard codes

Parameters:

keyString Key to convert

Returns:

Keyboard code for the string

Definition at line 80 of file ControlObject.cpp.

7.7.4 Member Data Documentation

7.7.4.1 unsigned int ControlObject::m_controlKeys[CO_MAX_CONTROL] [private]

Array to maintain maps between a given control and the key

Definition at line 77 of file ControlObject.h.

- branches/GameBase/ControlObject.h
- branches/GameBase/ControlObject.cpp

7.8 Converter::ConverterException Class Reference

Converter Exception.

#include <Converter.h>

Public Member Functions

- ConverterException (const char *msg)
- const char * what ()

Private Attributes

• const char * m_msg

7.8.1 Detailed Description

Converter Exception. Class used to represent an error in the conversion process Definition at line 33 of file Converter.h.

7.8.2 Constructor & Destructor Documentation

7.8.2.1 Converter::ConverterException::ConverterException (const char * msg) [inline]

Definition at line 35 of file Converter.h.

7.8.3 Member Function Documentation

7.8.3.1 const char* Converter::ConverterException::what () [inline]

Definition at line 36 of file Converter.h.

7.8.4 Member Data Documentation

7.8.4.1 const char* Converter::ConverterException::m_msg [private]

Definition at line 38 of file Converter.h.

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

• branches/GameBase/Converter.h

7.9 GameBase Class Reference

Primary Game Class.

#include <GameBase.h>Inheritance diagram for GameBase::



Public Member Functions

- GameBase ()
- virtual ~GameBase ()
- virtual bool PerformInit ()
- virtual void KeyPressed (unsigned int key)
- virtual void KeyReleased (unsigned int key)
- virtual void PerformUpdate (int currentTick)
- void PlayGame ()
- void Draw ()
- virtual void LeftMouseClick (Point &clickedPoint)

Private Member Functions

- void BuildHUDFont ()
- void KillHudFont ()

Private Attributes

- std::list< WorldObject * > m_worldList
- std::list< WorldObject * >::iterator m_currentWorld
- GameDude * m gameDude
- GameState m_currentGameState
- unsigned int m_hudTextBase
- GLYPHMETRICSFLOAT m_hudTextGmf [256]
- ControlObject * m_controls
- Menu * m_menu
- int m_delayTimer

7.9.1 Detailed Description

Primary Game Class. Primary class for the game. This is the primary class to control the program Definition at line 29 of file GameBase.h.

7.9.2 Constructor & Destructor Documentation

7.9.2.1 GameBase::GameBase ()

Constructor

Definition at line 14 of file GameBase.cpp.

7.9.2.2 GameBase::~GameBase() [virtual]

Destructor

Definition at line 24 of file GameBase.cpp.

7.9.3 Member Function Documentation

7.9.3.1 void GameBase::BuildHUDFont() [private]

Builds the font used in the HUD and Menus

Definition at line 261 of file GameBase.cpp.

7.9.3.2 void GameBase::Draw() [virtual]

Custom method to draw the game objects

Reimplemented from GlApplication.

Definition at line 299 of file GameBase.cpp.

7.9.3.3 void GameBase::KeyPressed (unsigned int key) [virtual]

Overriden Method to handle key press events

Parameters:

key The code of the pressed key

Reimplemented from GlApplication.

Definition at line 39 of file GameBase.cpp.

7.9.3.4 void GameBase::KeyReleased (unsigned int key) [virtual]

Overriden Method to handle key release events

Parameters:

key The code of the released key

Reimplemented from GlApplication.

Definition at line 88 of file GameBase.cpp.

7.9.3.5 void GameBase::KillHudFont() [private]

Cleans up the font used in the HUD and Menus

Definition at line 292 of file GameBase.cpp.

7.9.3.6 void GameBase::LeftMouseClick (Point & clickedPoint) [virtual]

Event handler for Left Mouse Click Events

Parameters:

clickedPoint Point the mouse clicked on

Reimplemented from GlApplication.

Definition at line 220 of file GameBase.cpp.

7.9.3.7 bool GameBase::PerformInit() [virtual]

Overriden Method to perform required game setup

Returns:

True is everything Initilized properly

Reimplemented from GlApplication.

Definition at line 29 of file GameBase.cpp.

7.9.3.8 void GameBase::PerformUpdate (int currentTick) [virtual]

Custom update method to update the game objects

Parameters:

currentTick The current tick count

Reimplemented from GlApplication.

Definition at line 107 of file GameBase.cpp.

7.9.3.9 void GameBase::PlayGame ()

Method to start the game

Definition at line 228 of file GameBase.cpp.

7.9.4 Member Data Documentation

7.9.4.1 ControlObject* GameBase::m_controls [private]

Control object for the player's controls

Definition at line 120 of file GameBase.h.

7.9.4.2 GameState GameBase::m_currentGameState [private]

The current running state of the game

Definition at line 109 of file GameBase.h.

7.9.4.3 std::list<WorldObject *>::iterator GameBase::m_currentWorld [private]

The current game world the player is on

Definition at line 99 of file GameBase.h.

7.9.4.4 int GameBase::m_delayTimer [private]

Timer used to delay the players special ability

Definition at line 130 of file GameBase.h.

7.9.4.5 GameDude* GameBase::m_gameDude [private]

The player's character

Definition at line 104 of file GameBase.h.

7.9.4.6 unsigned int GameBase::m_hudTextBase [private]

Base offset of the hud text

Definition at line 114 of file GameBase.h.

7.9.4.7 GLYPHMETRICSFLOAT GameBase::m_hudTextGmf[256] [private]

Definition at line 115 of file GameBase.h.

7.9.4.8 Menu* GameBase::m_menu [private]

Main menu

Definition at line 125 of file GameBase.h.

7.9.4.9 std::list<WorldObject *> GameBase::m_worldList [private]

List of worlds to use in the current game

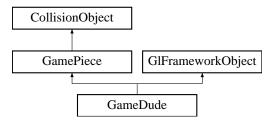
Definition at line 94 of file GameBase.h.

- branches/GameBase/GameBase.h
- $\bullet \ branches/Game Base/Game Base.cpp$

7.10 GameDude Class Reference

The player avatar.

#include <GameDude.h>Inheritance diagram for GameDude::



Public Member Functions

- GameDude (Square startingPos, unsigned int smallTextureId, unsigned int largeTextureId, unsigned int specialTextureId)
- virtual ~GameDude ()
- GameDudeStatus GetDudeStatus ()
- HoriztonalStatus GetHorizontalStatus ()
- VerticalStatus GetVerticalStatus ()
- double Move (double x)
- void Update (int ticks)
- void SetDudeStatus (GameDudeStatus newStatus)
- void SetHoriztonalStatus (HoriztonalStatus newStatus)
- void SetVerticalStatus (VerticalStatus newStatus)
- virtual bool Collide (CollisionSideEnum side, int damage)
- virtual void Draw ()
- void GetOffset ()
- void SetLeftBound (double newLeftX)
- void Reset (bool resetDudeStatus=true)
- void SetCrouching (bool status)
- bool GetFacing ()

Private Attributes

- double m_xOffset
- double m_jumpHeight
- GameDudeStatus m_gameDudeStatus
- HoriztonalStatus m_hStatus
- VerticalStatus m_vStatus
- double m_gameFloor
- Square m_startingPos
- unsigned int m_textureIds [3]
- bool m_crouching
- int m_invincible
- bool m_lastDirection

7.10.1 Detailed Description

The player avatar. Game Dude object represents the players avatar in the game In maintians the states of the player

Definition at line 25 of file GameDude.h.

7.10.2 Constructor & Destructor Documentation

7.10.2.1 GameDude::GameDude (Square startingPos, unsigned int smallTextureId, unsigned int largeTextureId, unsigned int specialTextureId)

Constructor

Parameters:

startingPos Starting Location of the playersmallTextureId Image Id of the small playerlargeTextureId Image Id of the large playerspecialTextureId Image Id of the special player

Definition at line 9 of file GameDude.cpp.

7.10.2.2 GameDude::~GameDude() [virtual]

Destructor

Definition at line 27 of file GameDude.cpp.

7.10.3 Member Function Documentation

7.10.3.1 bool GameDude::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hitdamage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Reimplemented from GamePiece.

Definition at line 153 of file GameDude.cpp.

7.10.3.2 void GameDude::Draw() [virtual]

Draw the game dude

Reimplemented from GamePiece.

Definition at line 192 of file GameDude.cpp.

7.10.3.3 GameDudeStatus GameDude::GetDudeStatus ()

Gets the current game dude status

Returns:

The current GameDudeStatus

Definition at line 31 of file GameDude.cpp.

7.10.3.4 bool GameDude::GetFacing ()

Gets the current facing of the GameDude

Returns:

0 for left 1 for right

Definition at line 239 of file GameDude.cpp.

7.10.3.5 HoriztonalStatus GameDude::GetHorizontalStatus ()

Gets the current horizontal status of the player

Returns:

The current HoriztonalStatus

Definition at line 36 of file GameDude.cpp.

7.10.3.6 void GameDude::GetOffset ()

Returns the current xOffset of the game dude

7.10.3.7 VerticalStatus GameDude::GetVerticalStatus ()

Gets the current vertical status of the player

Returns:

The current VerticalStatus

Definition at line 41 of file GameDude.cpp.

7.10.3.8 double GameDude::Move (double x)

Move the player x units

Parameters:

x Distance to move the player

Returns:

The new xOffset of the player

Definition at line 46 of file GameDude.cpp.

7.10.3.9 void GameDude::Reset (bool resetDudeStatus = true)

Resets the dude to his starting position

Parameters:

resetDudeStatus If the dude status should be reset

Definition at line 215 of file GameDude.cpp.

7.10.3.10 void GameDude::SetCrouching (bool status)

Sets the crouching status of the GameDude

Parameters:

status The new crouching status

Definition at line 230 of file GameDude.cpp.

7.10.3.11 void GameDude::SetDudeStatus (GameDudeStatus newStatus)

Set the dude status

Parameters:

newStatus The new GameDudeStatus

Definition at line 54 of file GameDude.cpp.

7.10.3.12 void GameDude::SetHoriztonalStatus (HoriztonalStatus newStatus)

Set the Horizontal Status

Parameters:

newStatus The new HorizontalStatus

Definition at line 99 of file GameDude.cpp.

7.10.3.13 void GameDude::SetLeftBound (double newLeftX)

Moves the current position to have its left side start at newLeftX

Parameters:

newLeftX The new left position

Definition at line 209 of file GameDude.cpp.

7.10.3.14 void GameDude::SetVerticalStatus (VerticalStatus newStatus)

Set the vertical status

Parameters:

newStatus The new VerticalStatus

Definition at line 86 of file GameDude.cpp.

7.10.3.15 void GameDude::Update (int ticks) [virtual]

Performs the update on the player object

Parameters:

ticks Number of ticks that have passed since the last update

Implements GlFrameworkObject.

Definition at line 111 of file GameDude.cpp.

7.10.4 Member Data Documentation

7.10.4.1 bool GameDude::m_crouching [private]

Crouching status

Definition at line 176 of file GameDude.h.

7.10.4.2 GameDudeStatus GameDude::m_gameDudeStatus [private]

The current game dude status

Definition at line 145 of file GameDude.h.

7.10.4.3 double GameDude::m_gameFloor [private]

The game floor height, if the player falls below this, they are killed

Definition at line 161 of file GameDude.h.

7.10.4.4 HoriztonalStatus GameDude::m_hStatus [private]

The current horizontal status

Definition at line 150 of file GameDude.h.

7.10.4.5 int GameDude::m_invincible [private]

Invinciblity timer

Definition at line 181 of file GameDude.h.

7.10.4.6 double GameDude::m_jumpHeight [private]

The current height the player has jumped

Definition at line 140 of file GameDude.h.

7.10.4.7 bool GameDude::m_lastDirection [private]

Last Direction the player was moving

Definition at line 186 of file GameDude.h.

7.10.4.8 Square GameDude::m_startingPos [private]

The starting position of the player

Definition at line 166 of file GameDude.h.

7.10.4.9 unsigned int GameDude::m_textureIds[3] [private]

Player images

Definition at line 171 of file GameDude.h.

7.10.4.10 VerticalStatus GameDude::m_vStatus [private]

The current vertical status

Definition at line 155 of file GameDude.h.

7.10.4.11 double GameDude::m_xOffset [private]

Distance the game dude is from the start of the level

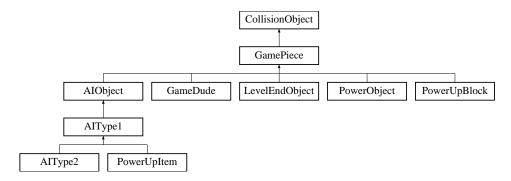
Definition at line 135 of file GameDude.h.

- branches/GameBase/GameDude.h
- branches/GameBase/GameDude.cpp

7.11 GamePiece Class Reference

General Game Object.

#include <GamePiece.h>Inheritance diagram for GamePiece::



Public Member Functions

- GamePiece (const Square &startingPos, unsigned int textureId)
- virtual void Draw ()
- Square GetCurrentPosition ()
- virtual bool Collide (CollisionSideEnum side, int damage)
- virtual bool CheckCollision (CollisionObject *object)
- virtual bool OnScreen (double leftX, double rightX)
- void SetPosition (const Square &newPos)

Protected Attributes

- Square m_currentLocation
- unsigned int m_textureId
- bool m_broken

7.11.1 Detailed Description

General Game Object. Base class for all objects the player can see on the screen and the GameDude can interact with.

Definition at line 23 of file GamePiece.h.

7.11.2 Constructor & Destructor Documentation

7.11.2.1 GamePiece::GamePiece (const Square & startingPos, unsigned int textureId)

Constructor

Parameters:

startingPos Location of the GamePiece textureId Id of the texture of the GamePiece

Definition at line 10 of file GamePiece.cpp.

7.11.3 Member Function Documentation

7.11.3.1 bool GamePiece::CheckCollision (CollisionObject * object) [virtual]

Checks to see if object has collided with the current object

Parameters:

object Object to check a collision against

Returns:

true if the object collided

Reimplemented in AIType1, LevelEndObject, PowerObject, and PowerUpItem.

Definition at line 41 of file GamePiece.cpp.

7.11.3.2 bool GamePiece::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hitdamage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Implements CollisionObject.

Reimplemented in AIType1, AIType2, GameDude, PowerObject, PowerUpBlock, and PowerUpItem.

Definition at line 103 of file GamePiece.cpp.

7.11.3.3 void GamePiece::Draw() [virtual]

Draws the GamePiece

Reimplemented in AIObject, GameDude, LevelEndObject, and PowerObject.

Definition at line 17 of file GamePiece.cpp.

7.11.3.4 Square GamePiece::GetCurrentPosition ()

Obtains the current location of the GamePiece

Definition at line 36 of file GamePiece.cpp.

7.11.3.5 bool GamePiece::OnScreen (double leftX, double rightX) [virtual]

Method to check if the object is on the screen

Parameters:

leftX Left side of the screen*rightX* Right side of the screen

Returns:

True is the object is on the screen

Definition at line 115 of file GamePiece.cpp.

7.11.3.6 void GamePiece::SetPosition (const Square & newPos)

Sets the current position to the newPos

Parameters:

newPos The objects new position

Definition at line 121 of file GamePiece.cpp.

7.11.4 Member Data Documentation

7.11.4.1 bool GamePiece::m_broken [protected]

Has the block been broken

Definition at line 84 of file GamePiece.h.

7.11.4.2 Square GamePiece::m_currentLocation [protected]

The position and size of the object

Definition at line 74 of file GamePiece.h.

7.11.4.3 unsigned int GamePiece::m_textureId [protected]

Texture id to draw with the object

Definition at line 79 of file GamePiece.h.

- branches/GameBase/GamePiece.h
- branches/GameBase/GamePiece.cpp

7.12 GlApplication Class Reference

Base Class for OpenGl Applications.

#include <GlApplication.h>Inheritance diagram for GlApplication::



Public Member Functions

- GlApplication ()
- ∼GlApplication ()
- int Main (HINSTANCE hInstance, HINSTANCE prevInstance, LPSTR lpCmdLine, int nCmdShow)
- LRESULT MessageHandler (HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
- Point GetPointAtCursor (LPARAM lParam)

Protected Member Functions

- virtual void Draw ()
- bool Init ()
- virtual bool PerformInit ()
- void Update ()
- virtual void PerformUpdate (int currentTick)
- virtual void LeftMouseClick (Point &clickedPoint)
- virtual void RightMouseClick (Point &clickedPoint)
- virtual void KeyPressed (unsigned int key)
- virtual void KeyReleased (unsigned int key)

Protected Attributes

- KeyHandler m_keys
- std::list< GlFrameworkObject * > m_objectList
- bool m_applicationRunning
- int m_lastTickCount
- GlWindow m_window

Private Attributes

- HINSTANCE hInstance
- bool m_isActive

7.12.1 Detailed Description

Base Class for OpenGl Applications. Base Class for OpenGl Applications Class handles window setup and message handling

Definition at line 29 of file GlApplication.h.

7.12.2 Constructor & Destructor Documentation

7.12.2.1 GlApplication::GlApplication ()

Constructor

Definition at line 31 of file GlApplication.cpp.

7.12.2.2 GlApplication::~GlApplication ()

Destructor

Definition at line 40 of file GlApplication.cpp.

7.12.3 Member Function Documentation

7.12.3.1 void GlApplication::Draw() [protected, virtual]

Draw the scene

Reimplemented in GameBase.

Definition at line 240 of file GlApplication.cpp.

7.12.3.2 Point GlApplication::GetPointAtCursor (LPARAM *lParam*)

Utility Method to convert a windows mouse pos into open gl coords

Parameters:

lParam Parameter of the point clicked

Returns:

The OpenGl point clicked

Definition at line 185 of file GlApplication.cpp.

7.12.3.3 bool GlApplication::Init () [protected]

Set up the gl window

Definition at line 207 of file GlApplication.cpp.

7.12.3.4 void GlApplication::KeyPressed (unsigned int key) [protected, virtual]

User overridable method to handle key press

Parameters:

key The key pressed

Reimplemented in GameBase.

Definition at line 275 of file GlApplication.cpp.

7.12.3.5 void GlApplication::KeyReleased (unsigned int key) [protected, virtual]

User overridable method to handle key release

Parameters:

key The key released

Reimplemented in GameBase.

Definition at line 280 of file GlApplication.cpp.

7.12.3.6 void GlApplication::LeftMouseClick (Point & clickedPoint) [protected, virtual]

User overridable method to handle left mouse clicks

Parameters:

clickedPoint Point Clicked

Reimplemented in GameBase.

Definition at line 265 of file GlApplication.cpp.

7.12.3.7 int GlApplication::Main (HINSTANCE hInstance, HINSTANCE prevInstance, LPSTR lpCmdLine, int nCmdShow)

Main program loop

Parameters:

hInstance Current Instance of the application
prevInstance Parent Instance of the application
lpCmdLine Array of command line args
nCmdShow 1 if the commandline is showing

Returns:

Exit code of the application

Definition at line 45 of file GlApplication.cpp.

7.12.3.8 LRESULT GlApplication::MessageHandler (HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)

Message Handler

Parameters:

hWnd Handle to the current windowuMsg The message to handlewParam Parameter 1lParam Parameter 2

Returns:

0 if all went well

Definition at line 121 of file GlApplication.cpp.

7.12.3.9 bool GlApplication::PerformInit() [protected, virtual]

User overridable method for init

Reimplemented in GameBase.

Definition at line 226 of file GlApplication.cpp.

7.12.3.10 void GlApplication::PerformUpdate (int currentTick) [protected, virtual]

User overridable method for object updates

Parameters:

currentTick Current Tick count for the time

Reimplemented in GameBase.

Definition at line 255 of file GlApplication.cpp.

7.12.3.11 void GlApplication::RightMouseClick (Point & clickedPoint) [protected, virtual]

User overridable method to handle right mouse clicks

Parameters:

clickedPoint Point Clicked

Definition at line 270 of file GlApplication.cpp.

7.12.3.12 void GlApplication::Update () [protected]

Update all objects

Definition at line 232 of file GlApplication.cpp.

7.12.4 Member Data Documentation

7.12.4.1 HINSTANCE GlApplication::hInstance [private]

Application Instance

Definition at line 149 of file GlApplication.h.

7.12.4.2 bool GlApplication::m_applicationRunning [protected]

Boolean to monitor if the app is running

Definition at line 133 of file GlApplication.h.

7.12.4.3 bool GlApplication::m_isActive [private]

Boolean to monitor if the app is active

Definition at line 154 of file GlApplication.h.

7.12.4.4 KeyHandler GlApplication::m_keys [protected]

Key handler for the application

Definition at line 123 of file GlApplication.h.

7.12.4.5 int GlApplication::m_lastTickCount [protected]

Last tick count that was run on update

Definition at line 138 of file GlApplication.h.

7.12.4.6 std::list< GlFrameworkObject * > GlApplication::m_objectList [protected]

Object list to run update and draw for the application

Definition at line 128 of file GlApplication.h.

7.12.4.7 GlWindow GlApplication::m_window [protected]

The window for the aplication

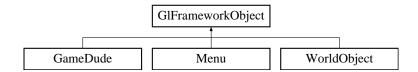
Definition at line 143 of file GlApplication.h.

- branches/GameBase/GlApplication.h
- branches/GameBase/GlApplication.cpp

7.13 GlFrameworkObject Class Reference

Interface for objects to interact with GlApplication.

#include <GlFrameworkObject.h>Inheritance diagram for GlFrameworkObject::



Public Member Functions

- virtual void Draw ()=0
- virtual void Update (int ticks)=0

7.13.1 Detailed Description

Interface for objects to interact with GlApplication. Base class for the Framework Objects Definition at line 19 of file GlFrameworkObject.h.

7.13.2 Member Function Documentation

7.13.2.1 virtual void GIFrameworkObject::Draw() [pure virtual]

Method to draw the object

Implemented in GameDude, Menu, and WorldObject.

7.13.2.2 virtual void GIFrameworkObject::Update (int ticks) [pure virtual]

Method to update the object

Parameters:

ticks Number of ticks passed since the last call to update

Implemented in GameDude, Menu, and WorldObject.

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

• branches/GameBase/GlFrameworkObject.h

7.14 GlWindow Class Reference

Window in Windows.

#include <GlWindow.h>

Public Member Functions

- GlWindow ()
- ∼GlWindow ()
- bool CreateGlWindow (const std::wstring &className, const std::wstring &windowTitle, HIN-STANCE hInstance, int windowPosX, int windowPosY, int windowWidth, int windowHeight, const bool &fullScreen, int bitsPerPixel, LPVOID application)
- void KillWindow ()
- void SwapBuffers ()
- void ResizeGlScene (int width, int height)
- int GetWindowHeight ()
- int GetWindowWidth ()
- operator HWND ()
- operator HDC ()

Protected Member Functions

• void EnableFullScreen (const int &windowWidth, const int &windowHeight, const int &bitsPer-Pixel)

Private Attributes

- HWND m_hWnd
- HGLRC m_hRc
- HDC m_hDc
- bool m isFullScreen
- int m_windowWidth
- int m_windowHeight

7.14.1 Detailed Description

Window in Windows. Class to handle window create and management

Definition at line 22 of file GlWindow.h.

7.14.2 Constructor & Destructor Documentation

7.14.2.1 GlWindow::GlWindow()

Constructor

Definition at line 23 of file GlWindow.cpp.

7.14.2.2 GlWindow::~GlWindow()

Destructor

Definition at line 34 of file GlWindow.cpp.

7.14.3 Member Function Documentation

7.14.3.1 bool GIWindow::CreateGIWindow (const std::wstring & className, const std::wstring & windowTitle, HINSTANCE hInstance, int windowPosX, int windowPosY, int windowWidth, int windowHeight, const bool & fullScreen, int bitsPerPixel, LPVOID application)

Method to create the window

Parameters:

```
className String to unqiuely ID the class
windowTitle Title of the window
hInstance Handle to the instance of the object
windowPosX X coord to place the window at
windowPosY Y coord to place the window at
windowWidth Width of the window
windowHeight Height of the window
fullScreen True if the window should be fullscreen
bitsPerPixel Bits per pixel
application Pointer to the application running the window
```

Returns:

True on success

Definition at line 40 of file GlWindow.cpp.

7.14.3.2 void GlWindow::EnableFullScreen (const int & windowWidth, const int & windowHeight, const int & bitsPerPixel) [protected]

Set the window to run in full screen mode

Parameters:

```
windowWidth Width of the window
windowHeight Height of the window
bitsPerPixel Bits per pixel
```

Definition at line 232 of file GlWindow.cpp.

7.14.3.3 int GlWindow::GetWindowHeight ()

Get The Window Height

Definition at line 279 of file GlWindow.cpp.

7.14.3.4 int GlWindow::GetWindowWidth ()

Get The Window Width

Definition at line 285 of file GlWindow.cpp.

7.14.3.5 void GlWindow::KillWindow ()

Destory and clean up the window

Definition at line 195 of file GlWindow.cpp.

7.14.3.6 GlWindow::operator HDC() [inline]

Overload to allow the GlWindow to act as a HDC

Returns:

The window's DC

Definition at line 87 of file GlWindow.h.

7.14.3.7 GlWindow::operator HWND() [inline]

Overload to allow the GlWindow to act as a HWND

Returns:

The window's Handle

Definition at line 81 of file GlWindow.h.

7.14.3.8 void GlWindow::ResizeGlScene (int width, int height)

Reshape the gl scene

Parameters:

width New window width

height New window height

Definition at line 256 of file GlWindow.cpp.

7.14.3.9 void GlWindow::SwapBuffers ()

Swaps the buffers of the window

Definition at line 250 of file GlWindow.cpp.

7.14.4 Member Data Documentation

7.14.4.1 HDC GlWindow::m_hDc [private]

Device Context

Definition at line 113 of file GlWindow.h.

7.14.4.2 HGLRC GlWindow::m_hRc [private]

Rendering Context

Definition at line 108 of file GlWindow.h.

7.14.4.3 HWND GlWindow::m_hWnd [private]

Window Handle

Definition at line 103 of file GlWindow.h.

7.14.4.4 bool GlWindow::m_isFullScreen [private]

Is the window in full screen mode

Definition at line 118 of file GlWindow.h.

7.14.4.5 int GlWindow::m_windowHeight [private]

Window Width

Definition at line 128 of file GlWindow.h.

7.14.4.6 int GlWindow::m_windowWidth [private]

Window Height

Definition at line 123 of file GlWindow.h.

- branches/GameBase/GlWindow.h
- branches/GameBase/GlWindow.cpp

7.15 KeyHandler Class Reference

Manages key presses.

#include <KeyHandler.h>

Public Member Functions

- KeyHandler ()
- void Reset ()
- void SetPressed (const unsigned int &keyNumber)
- void SetReleased (const unsigned int &keyNumber)
- bool GetPressed (const unsigned int &keyNumber)

Private Attributes

• bool m_keys [MAX_KEYS]

7.15.1 Detailed Description

Manages key presses. Class manage which keys are currently being pressed Definition at line 24 of file KeyHandler.h.

7.15.2 Constructor & Destructor Documentation

7.15.2.1 KeyHandler::KeyHandler()

Constructor

Definition at line 19 of file KeyHandler.cpp.

7.15.3 Member Function Documentation

7.15.3.1 bool KeyHandler::GetPressed (const unsigned int & keyNumber)

Gets the status of a key

Parameters:

keyNumber The key number to check

Returns:

Status of the key

Definition at line 25 of file KeyHandler.cpp.

7.15.3.2 void KeyHandler::Reset ()

Releases all keys

Definition at line 50 of file KeyHandler.cpp.

7.15.3.3 void KeyHandler::SetPressed (const unsigned int & keyNumber)

Sets a key as pressed

Parameters:

keyNumber Key to set pressed

Definition at line 32 of file KeyHandler.cpp.

7.15.3.4 void KeyHandler::SetReleased (const unsigned int & keyNumber)

Sets a key as released

Parameters:

keyNumber Key to set released

Definition at line 41 of file KeyHandler.cpp.

7.15.4 Member Data Documentation

7.15.4.1 bool KeyHandler::m_keys[MAX_KEYS] [private]

Array to track key presses

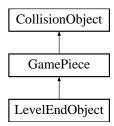
Definition at line 59 of file KeyHandler.h.

- branches/GameBase/KeyHandler.h
- branches/GameBase/KeyHandler.cpp

7.16 LevelEndObject Class Reference

Object used to track if a level has ended.

#include <LevelEndObject.h>Inheritance diagram for LevelEndObject::



Public Member Functions

- LevelEndObject (Square startingPos, unsigned int textureId)
- ~LevelEndObject ()
- virtual bool CheckCollision (CollisionObject *object)
- bool LevelDone ()
- virtual void Draw ()

Private Attributes

• bool m_levelDone

7.16.1 Detailed Description

Object used to track if a level has ended. Object used to check the level status. This object will return true when the level is over

Definition at line 22 of file LevelEndObject.h.

7.16.2 Constructor & Destructor Documentation

7.16.2.1 LevelEndObject::LevelEndObject (Square startingPos, unsigned int textureId)

Constructor

Parameters:

startingPos Position of the levelEndObject textureId Image to use for the object

Definition at line 10 of file LevelEndObject.cpp.

7.16.2.2 LevelEndObject::~LevelEndObject()

Destructor

Definition at line 16 of file LevelEndObject.cpp.

7.16.3 Member Function Documentation

7.16.3.1 bool LevelEndObject::CheckCollision (CollisionObject * object) [virtual]

Checks to see if object has collided with the current object

Parameters:

object Object to check a collision against

Returns:

true if the object collided

Reimplemented from GamePiece.

Definition at line 25 of file LevelEndObject.cpp.

7.16.3.2 void LevelEndObject::Draw() [virtual]

Draw the object

Reimplemented from GamePiece.

Definition at line 45 of file LevelEndObject.cpp.

7.16.3.3 bool LevelEndObject::LevelDone ()

Check if a level has been completed

Returns:

True if the level has ended

Definition at line 20 of file LevelEndObject.cpp.

7.16.4 Member Data Documentation

7.16.4.1 bool LevelEndObject::m_levelDone [private]

Status if the level has ended

Definition at line 57 of file LevelEndObject.h.

- branches/GameBase/LevelEndObject.h
- branches/GameBase/LevelEndObject.cpp

7.17 LevelObject Class Reference

Level in the game.

```
#include <LevelObject.h>
```

Public Member Functions

- LevelObject (const std::wstring &levelName)
- virtual ~LevelObject ()
- void Draw ()
- bool Update (int ticks, GameDude *gameDude)
- double Move (double distance)
- void AddGamePiece (GamePiece *piece)
- void AddAIObject (AIObject *object)
- void Start ()
- void SetLevelEndObject (LevelEndObject *object)
- void SetLevelFileName (const std::wstring &levelFileName)
- void SetImageFolder (const std::wstring &imageFolder)
- std::wstring GetImageFolder ()
- bool Load ()
- bool Reload ()
- std::wstring GetTimerString ()
- void FireSpecialPower (Square startingPos, bool direction)
- void SetSpecialImages (int leftTextureId, int rightTextureId)

Protected Attributes

- std::list< GamePiece * > m_levelObjects
- $std::list < AIObject * > m_passiveAIList$
- std::wstring m_levelName
- double m xOffset
- double m_maxXOffset
- BackGroundManager * m_backGroundManager
- double m_screenWidth

Private Attributes

- std::list< AIObject * > m_activeAIList
- std::list< GamePiece * >::iterator m_screenEndIter
- std::list< GamePiece * >::iterator m_screenStartIter
- std::list< PowerObject * > m_powerList
- LevelEndObject * m_levelEndObject
- std::wstring m_levelFileName
- std::wstring m_imageFolder
- int m_timer
- int m_specialTextureIds [2]

7.17.1 Detailed Description

Level in the game. Represents a level within the game. Handles all AI objects, Special Powers and block collisions

Definition at line 30 of file LevelObject.h.

7.17.2 Constructor & Destructor Documentation

7.17.2.1 LevelObject::LevelObject (const std::wstring & levelName)

Constructor

Parameters:

levelName The level's name

Definition at line 16 of file LevelObject.cpp.

7.17.2.2 LevelObject::~LevelObject() [virtual]

Destructor

Definition at line 33 of file LevelObject.cpp.

7.17.3 Member Function Documentation

7.17.3.1 void LevelObject::AddAIObject (AIObject * object)

Adds a general AIObject to the level

Parameters:

object AIObject to add to the level

Definition at line 240 of file LevelObject.cpp.

7.17.3.2 void LevelObject::AddGamePiece (GamePiece * piece)

Adds a general GamePiece to the level

Parameters:

piece GamePiece to add to the level

Definition at line 232 of file LevelObject.cpp.

7.17.3.3 void LevelObject::Draw ()

Draw the level

Definition at line 49 of file LevelObject.cpp.

7.17.3.4 void LevelObject::FireSpecialPower (Square startingPos, bool direction)

Fires a special power object

Parameters:

```
startingPos Starting location of the PowerObjectdirection Direction of the PowerObject
```

Definition at line 351 of file LevelObject.cpp.

7.17.3.5 std::wstring LevelObject::GetImageFolder ()

Get the Image Folder

Returns:

The folder name where the images are located

Definition at line 340 of file LevelObject.cpp.

7.17.3.6 std::wstring LevelObject::GetTimerString ()

Get time remain string

Returns:

Time remaining as a string

Definition at line 327 of file LevelObject.cpp.

7.17.3.7 bool LevelObject::Load ()

Loads the level from the fileName

Definition at line 287 of file LevelObject.cpp.

7.17.3.8 double LevelObject::Move (double distance)

Move the level distance

Parameters:

distance Distance to move

Returns:

The new xOffset

Definition at line 68 of file LevelObject.cpp.

7.17.3.9 bool LevelObject::Reload ()

Reloads the level from the begining

Todo

: Refactor to remove calls to this method

Definition at line 321 of file LevelObject.cpp.

7.17.3.10 void LevelObject::SetImageFolder (const std::wstring & imageFolder)

Sets the image folder for the level. Textures will be loaded from this folder.

Parameters:

imageFolder Folder name where the images are located

Definition at line 335 of file LevelObject.cpp.

7.17.3.11 void LevelObject::SetLevelEndObject (LevelEndObject * object)

Set the level end object for a level

Parameters:

object Object to use as the level end indicator

Definition at line 277 of file LevelObject.cpp.

7.17.3.12 void LevelObject::SetLevelFileName (const std::wstring & levelFileName)

Sets the level file name. This file will be used to load the level.

Parameters:

levelFileName Level file to load

Definition at line 282 of file LevelObject.cpp.

7.17.3.13 void LevelObject::SetSpecialImages (int leftTextureId, int rightTextureId)

Sets the images to use for the PowerObject

Parameters:

leftTextureId Image of a left moving PowerObject
rightTextureId Image of a right moving PowerObject

Definition at line 345 of file LevelObject.cpp.

7.17.3.14 void LevelObject::Start ()

Starts the level

Definition at line 248 of file LevelObject.cpp.

7.17.3.15 bool LevelObject::Update (int ticks, GameDude * gameDude)

Update the current level

Parameters:

ticks Number of ticks since the last update

gameDude GameDude object to collide against

Definition at line 124 of file LevelObject.cpp.

7.17.4 Member Data Documentation

7.17.4.1 std::list<AIObject *> LevelObject::m_activeAIList [private]

List of currently active AI Objects

Definition at line 171 of file LevelObject.h.

7.17.4.2 BackGroundManager* LevelObject::m_backGroundManager [protected]

The background image for the level

Definition at line 161 of file LevelObject.h.

7.17.4.3 std::wstring LevelObject::m_imageFolder [private]

Level image file folder path

Definition at line 201 of file LevelObject.h.

7.17.4.4 LevelEndObject* LevelObject::m_levelEndObject [private]

Object to control the level end

Definition at line 191 of file LevelObject.h.

7.17.4.5 std::wstring LevelObject::m_levelFileName [private]

Level load file name

Definition at line 196 of file LevelObject.h.

7.17.4.6 std::wstring LevelObject::m_levelName [protected]

Name of the level

Definition at line 146 of file LevelObject.h.

7.17.4.7 std::list<GamePiece *> LevelObject::m levelObjects [protected]

All objects in the level

Definition at line 136 of file LevelObject.h.

7.17.4.8 double LevelObject::m_maxXOffset [protected]

The maximum distance a player can move into the level

Definition at line 156 of file LevelObject.h.

7.17.4.9 std::list<AIObject *> LevelObject::m_passiveAIList [protected]

List off none activated AI Objects

Definition at line 141 of file LevelObject.h.

7.17.4.10 std::list<PowerObject *> LevelObject::m_powerList [private]

List of power objects shot by the player

Definition at line 186 of file LevelObject.h.

7.17.4.11 std::list<GamePiece *>::iterator LevelObject::m_screenEndIter [private]

Marks the right side of the screen

Definition at line 176 of file LevelObject.h.

7.17.4.12 std::list<GamePiece *>::iterator LevelObject::m_screenStartIter [private]

Marks the left side of the screen

Definition at line 181 of file LevelObject.h.

7.17.4.13 double LevelObject::m_screenWidth [protected]

The screen width in openGL units

Definition at line 166 of file LevelObject.h.

7.17.4.14 int LevelObject::m_specialTextureIds[2] [private]

The images used for the special powers

Definition at line 211 of file LevelObject.h.

7.17.4.15 int LevelObject::m_timer [private]

The current timer for the level

Definition at line 206 of file LevelObject.h.

7.17.4.16 double LevelObject::m_xOffset [protected]

Distance the player has moved from the begining of the level

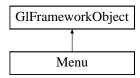
Definition at line 151 of file LevelObject.h.

- branches/GameBase/LevelObject.h
- branches/GameBase/LevelObject.cpp

7.18 Menu Class Reference

Menu Class.

#include <Menu.h>Inheritance diagram for Menu::



Public Member Functions

- Menu (unsigned int textBase)
- ~Menu ()
- void Update (int ticks)
- void Draw ()
- void AddMenuItem (const std::wstring text, int id, const Square &pos)
- int GetSelectedItemId ()
- void Click (const Point &point)
- void HandleKey (unsigned int key)

Protected Attributes

- std::list< MenuItem * > m_items
- unsigned int m_textBase
- int m_clickedId
- $\bullet \ std::list{< MenuItem} *>::iterator \ m_selectedItem\\$

7.18.1 Detailed Description

Menu Class. Creates and manages a general menu

Definition at line 24 of file Menu.h.

7.18.2 Constructor & Destructor Documentation

7.18.2.1 Menu::Menu (unsigned int textBase)

Constructor

Parameters:

textBase Base of the text to use

Definition at line 11 of file Menu.cpp.

7.18.2.2 Menu::∼Menu ()

Desctructor

Definition at line 18 of file Menu.cpp.

7.18.3 Member Function Documentation

7.18.3.1 void Menu::AddMenuItem (const std::wstring text, int id, const Square & pos)

Adds an item to the menu

Parameters:

```
text Text for the menu optionid Number to ID the option when it is clickedpos Position of the option on the screen
```

Definition at line 44 of file Menu.cpp.

7.18.3.2 void Menu::Click (const Point & point)

Handles on click on the menu

Parameters:

point Point clicked

Definition at line 56 of file Menu.cpp.

7.18.3.3 void Menu::Draw() [virtual]

Draw the menu

Implements GlFrameworkObject.

Definition at line 30 of file Menu.cpp.

7.18.3.4 int Menu::GetSelectedItemId ()

Gets the selected item

Returns:

The selected Item Id or -1 if none selected

Definition at line 51 of file Menu.cpp.

7.18.3.5 void Menu::HandleKey (unsigned int *key*)

Handles on key press in the menu

Parameters:

key key pressed

Definition at line 69 of file Menu.cpp.

7.18.3.6 void Menu::Update (int ticks) [virtual]

Update the menu ticks ticks

Parameters:

ticks Number of ticks passed since the last call to update

Implements GlFrameworkObject.

Definition at line 26 of file Menu.cpp.

7.18.4 Member Data Documentation

7.18.4.1 int Menu::m_clickedId [protected]

Clicked item id

Definition at line 87 of file Menu.h.

7.18.4.2 std::list<MenuItem *> Menu::m_items [protected]

List of menu items to use

Definition at line 77 of file Menu.h.

7.18.4.3 std::list<MenuItem *>::iterator Menu::m_selectedItem [protected]

Highlighted menu item

Definition at line 92 of file Menu.h.

7.18.4.4 unsigned int Menu::m_textBase [protected]

Base of the text font to use

Definition at line 82 of file Menu.h.

- branches/GameBase/Menu.h
- branches/GameBase/Menu.cpp

7.19 MenuItem Class Reference

Items that appear within a menu.

```
#include <MenuItem.h>
```

Public Member Functions

- MenuItem (const std::wstring &text, Square pos, int id, unsigned int textBase)
- virtual ~MenuItem ()
- bool ContainPoint (const Point &point)
- int GetId ()
- void Draw ()
- void SetSelectStatus (bool status)

Protected Attributes

- Square m_position
- std::wstring m_text
- int m_menuId
- unsigned int m_textBase
- bool m_selected

7.19.1 Detailed Description

Items that appear within a menu. Item used to represent menu options within a menu Definition at line 22 of file MenuItem.h.

7.19.2 Constructor & Destructor Documentation

7.19.2.1 MenuItem::MenuItem (const std::wstring & text, Square pos, int id, unsigned int textBase)

Constructor

Parameters:

```
text Menu Option Textpos Position on the screen of the optionid Id of the optiontextBase Base number of the text
```

Definition at line 6 of file MenuItem.cpp.

7.19.2.2 MenuItem::~MenuItem() [virtual]

Destructor

Definition at line 15 of file MenuItem.cpp.

7.19.3 Member Function Documentation

7.19.3.1 bool MenuItem::ContainPoint (const Point & point)

Checks to see if a given point is on the option

Parameters:

point Clicked Point to check

Returns:

True is the point in on the option

Definition at line 19 of file MenuItem.cpp.

7.19.3.2 void MenuItem::Draw ()

Draw the menu option

Definition at line 34 of file MenuItem.cpp.

7.19.3.3 int MenuItem::GetId ()

Gets the ID of the menu option

Returns:

Menu Option Id

Definition at line 29 of file MenuItem.cpp.

7.19.3.4 void MenuItem::SetSelectStatus (bool status)

Sets if the option is the currently selected one

Definition at line 60 of file MenuItem.cpp.

7.19.4 Member Data Documentation

7.19.4.1 int MenuItem::m_menuId [protected]

The id of the option

Definition at line 74 of file MenuItem.h.

7.19.4.2 Square MenuItem::m_position [protected]

Position of the option

Definition at line 64 of file MenuItem.h.

7.19.4.3 bool MenuItem::m_selected [protected]

If the option is selected

Definition at line 84 of file MenuItem.h.

7.19.4.4 std::wstring MenuItem::m_text [protected]

Text to display for the option

Definition at line 69 of file MenuItem.h.

7.19.4.5 unsigned int MenuItem::m_textBase [protected]

The base number for the font

Definition at line 79 of file MenuItem.h.

- branches/GameBase/MenuItem.h
- branches/GameBase/MenuItem.cpp

7.20 Point Struct Reference

A single point Represents a single point in openGL space.

```
#include <Point.h>
```

Public Member Functions

• Point (double x=0.0, double y=0.0, double z=0.0)

Public Attributes

- double x
- double y
- double z

7.20.1 Detailed Description

A single point Represents a single point in openGL space.

Definition at line 19 of file Point.h.

7.20.2 Constructor & Destructor Documentation

7.20.2.1 Point::Point (double x = 0.0, double y = 0.0, double z = 0.0) [inline]

Definition at line 21 of file Point.h.

7.20.3 Member Data Documentation

7.20.3.1 double Point::x

Definition at line 26 of file Point.h.

7.20.3.2 double Point::y

Definition at line 28 of file Point.h.

7.20.3.3 double Point::z

Definition at line 29 of file Point.h.

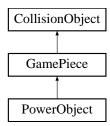
The documentation for this struct was generated from the following file:

• branches/GameBase/Point.h

7.21 PowerObject Class Reference

The special power.

#include <PowerObject.h>Inheritance diagram for PowerObject::



Public Member Functions

- PowerObject (const Square &startingPos, bool direction, unsigned int leftTextureId, unsigned int rightTextureId)
- virtual ~PowerObject ()
- virtual void **Update** (int ticks)
- virtual void Draw ()
- bool IsDead ()
- virtual bool CheckCollision (CollisionObject *object)
- virtual bool Collide (CollisionSideEnum side, int damage)

Protected Attributes

- bool m_direction
- bool m_active

7.21.1 Detailed Description

The special power. The object that game dude fires when using the special powers Definition at line 22 of file PowerObject.h.

7.21.2 Constructor & Destructor Documentation

7.21.2.1 PowerObject::PowerObject (const Square & startingPos, bool direction, unsigned int leftTextureId, unsigned int rightTextureId)

Constuctor

Parameters:

startingPos Starting position of the special power direction Direction the object should be moving leftTextureId Left moving imagerightTextureId Right moving image

Definition at line 12 of file PowerObject.cpp.

7.21.2.2 PowerObject::~PowerObject() [virtual]

Destructor

Definition at line 19 of file PowerObject.cpp.

7.21.3 Member Function Documentation

7.21.3.1 bool PowerObject::CheckCollision (CollisionObject * object) [virtual]

Checks to see if object has collided with the current object

Parameters:

object Object to check a collision against

Returns:

true if the object collided

Reimplemented from GamePiece.

Definition at line 51 of file PowerObject.cpp.

7.21.3.2 bool PowerObject::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hitdamage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Reimplemented from GamePiece.

Definition at line 70 of file PowerObject.cpp.

7.21.3.3 void PowerObject::Draw() [virtual]

Draw the PowerObject

Reimplemented from GamePiece.

Definition at line 32 of file PowerObject.cpp.

7.21.3.4 bool PowerObject::IsDead ()

Check if the PowerObject has died

Returns:

If the power object has hit something

Definition at line 46 of file PowerObject.cpp.

7.21.3.5 void PowerObject::Update (int ticks) [virtual]

Updates the power object

Parameters:

ticks Ticks passed since the last call to update

Definition at line 23 of file PowerObject.cpp.

7.21.4 Member Data Documentation

7.21.4.1 bool PowerObject::m_active [protected]

Is the piece currently active

Definition at line 78 of file PowerObject.h.

7.21.4.2 bool PowerObject::m_direction [protected]

Direction the object is moving

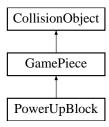
Definition at line 73 of file PowerObject.h.

- branches/GameBase/PowerObject.h
- branches/GameBase/PowerObject.cpp

7.22 PowerUpBlock Class Reference

Block that creates a PowerUpItem.

#include <PowerUpBlock.h>Inheritance diagram for PowerUpBlock::



Public Member Functions

- PowerUpBlock (const Square &startingPos, PowerUpItem *item, unsigned int unusedTextureId, unsigned int usedTextureId)
- virtual ~PowerUpBlock ()
- virtual bool Collide (CollisionSideEnum side, int damage)

Private Attributes

- unsigned int m_textureIds [2]
- bool m_blockUsed
- PowerUpItem * m_item

7.22.1 Detailed Description

Block that creates a PowerUpItem. Special Power Block. Upon hitting, it triggers the PowerUpItem Definition at line 21 of file PowerUpBlock.h.

7.22.2 Constructor & Destructor Documentation

7.22.2.1 PowerUpBlock::PowerUpBlock (const Square & startingPos, PowerUpItem * item, unsigned int unusedTextureId, unsigned int usedTextureId)

Constructor

Parameters:

startingPos The position of the blockitem PowerUpItem to trigger once the block is hitunusedTextureId Image to display before the block is hitusedTextureId Image to display after the block is hit

Definition at line 4 of file PowerUpBlock.cpp.

7.22.2.2 PowerUpBlock::~PowerUpBlock() [virtual]

Destructor

Definition at line 13 of file PowerUpBlock.cpp.

7.22.3 Member Function Documentation

7.22.3.1 bool PowerUpBlock::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hitdamage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Reimplemented from GamePiece.

Definition at line 17 of file PowerUpBlock.cpp.

7.22.4 Member Data Documentation

7.22.4.1 bool PowerUpBlock::m_blockUsed [private]

Has the power block been hit

Definition at line 53 of file PowerUpBlock.h.

7.22.4.2 PowerUpItem* PowerUpBlock::m_item [private]

Item to trigger when hit

Definition at line 58 of file PowerUpBlock.h.

7.22.4.3 unsigned int PowerUpBlock::m_textureIds[2] [private]

Texture Ids to use for the power up block

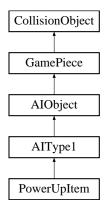
Definition at line 48 of file PowerUpBlock.h.

- branches/GameBase/PowerUpBlock.h
- branches/GameBase/PowerUpBlock.cpp

7.23 PowerUpItem Class Reference

Power Up Item.

#include <PowerUpItem.h>Inheritance diagram for PowerUpItem::



Public Member Functions

- PowerUpItem (const Square &startingPos, unsigned int textureId)
- virtual ~PowerUpItem ()
- virtual bool Trigger (double xOffset)
- virtual void **Update** (int ticks)
- void Activate ()
- void SetVerticalStatus (VerticalStatus status)
- virtual bool Collide (CollisionSideEnum side, int damage)
- virtual bool CheckCollision (CollisionObject *object)

Protected Attributes

- bool m_triggered
- double m_jumpHeight

7.23.1 Detailed Description

Power Up Item. Power up item, upon touching the game dude status is increased by 1 Definition at line 22 of file PowerUpItem.h.

7.23.2 Constructor & Destructor Documentation

7.23.2.1 PowerUpItem::PowerUpItem (const Square & startingPos, unsigned int textureId)

Constructor

Parameters:

startingPos Starting position of the object

88 Class Documentation

textureId Image to use

Definition at line 10 of file PowerUpItem.cpp.

7.23.2.2 PowerUpItem::~PowerUpItem() [virtual]

Destructor

Definition at line 17 of file PowerUpItem.cpp.

7.23.3 Member Function Documentation

7.23.3.1 void PowerUpItem::Activate ()

Set the object to return true on the new trigger

Definition at line 50 of file PowerUpItem.cpp.

7.23.3.2 bool PowerUpItem::CheckCollision (CollisionObject * object) [virtual]

Checks to see if object has collided with the current object

Parameters:

object Object to check a collision against

Returns:

true if the object collided

Reimplemented from AIType1.

Definition at line 70 of file PowerUpItem.cpp.

7.23.3.3 bool PowerUpItem::Collide (CollisionSideEnum side, int damage) [virtual]

Handles the event of another object colliding with the current one

Parameters:

side Side of the current object that has been hit

damage Amount of damage to attempt to inflict upon the current object

Returns:

true if the current object wishes to return damage

Reimplemented from AIType1.

Definition at line 61 of file PowerUpItem.cpp.

7.23.3.4 void PowerUpItem::SetVerticalStatus (VerticalStatus status) [virtual]

Set the vertical status

Parameters:

status The new vertical status of the object

Reimplemented from AIObject.

Definition at line 99 of file PowerUpItem.cpp.

7.23.3.5 bool PowerUpItem::Trigger (double xOffset) [virtual]

Checks if the object should be activated

Parameters:

xOffset Not Used on this object

Reimplemented from AIType1.

Definition at line 40 of file PowerUpItem.cpp.

7.23.3.6 void PowerUpItem::Update (int ticks) [virtual]

Performs the update on the object

Parameters:

ticks Number of ticks that have passed since the last update

Reimplemented from AIType1.

Definition at line 21 of file PowerUpItem.cpp.

7.23.4 Member Data Documentation

7.23.4.1 double PowerUpItem::m_jumpHeight [protected]

How height has the object gone

Definition at line 82 of file PowerUpItem.h.

7.23.4.2 bool PowerUpItem::m_triggered [protected]

Has the object been triggered

Definition at line 77 of file PowerUpItem.h.

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

- branches/GameBase/PowerUpItem.h
- branches/GameBase/PowerUpItem.cpp

90 Class Documentation

7.24 RgbaColor Struct Reference

OpenGL Color.

#include <RgbaColor.h>

Public Attributes

- unsigned char red
- unsigned char green
- unsigned char blue
- unsigned char alpha

7.24.1 Detailed Description

OpenGL Color. Struct represents the 4 values of an openGL using 4 unsigned bytes Definition at line 20 of file RgbaColor.h.

7.24.2 Member Data Documentation

7.24.2.1 unsigned char RgbaColor::alpha

Definition at line 25 of file RgbaColor.h.

7.24.2.2 unsigned char RgbaColor::blue

Definition at line 24 of file RgbaColor.h.

7.24.2.3 unsigned char RgbaColor::green

Definition at line 23 of file RgbaColor.h.

7.24.2.4 unsigned char RgbaColor::red

Definition at line 22 of file RgbaColor.h.

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

• branches/GameBase/RgbaColor.h

7.25 ScoreManager Class Reference

Tracks the players score.

```
#include <ScoreManager.h>
```

Public Member Functions

- unsigned int GetCurrentScore ()
- void AddToScore (unsigned int points, ScoreObject objectType)
- void Reset ()
- void NewLevel ()
- void ResetLevel ()

Static Public Member Functions

• static ScoreManager * Instance ()

Protected Member Functions

- ScoreManager ()
- virtual ~ScoreManager ()
- ScoreManager (const ScoreManager &)
- ScoreManager & operator= (const ScoreManager &)

Protected Attributes

- unsigned int m_score
- unsigned int m_levelScore

Static Protected Attributes

• static ScoreManager * m_instance = 0

7.25.1 Detailed Description

Tracks the players score. Class to keep trace of the current playes score. Singleton Object Definition at line 22 of file ScoreManager.h.

7.25.2 Constructor & Destructor Documentation

7.25.2.1 ScoreManager::ScoreManager() [protected]

Constructor

Definition at line 3 of file ScoreManager.cpp.

92 Class Documentation

7.25.2.2 ScoreManager::~ScoreManager() [protected, virtual]

Desctructor

Definition at line 8 of file ScoreManager.cpp.

7.25.2.3 ScoreManager::ScoreManager (const ScoreManager & temp) [protected]

Definition at line 50 of file ScoreManager.cpp.

7.25.3 Member Function Documentation

7.25.3.1 void ScoreManager::AddToScore (unsigned int points, ScoreObject objectType)

Add a given number of points to the player's score

Parameters:

points Number of points to add to the player's score
objectType Reason points are being added

Definition at line 12 of file ScoreManager.cpp.

7.25.3.2 unsigned int ScoreManager::GetCurrentScore ()

Get the current score

Returns:

The current score

Definition at line 18 of file ScoreManager.cpp.

7.25.3.3 ScoreManager * ScoreManager::Instance() [static]

Method to obtain the singleton instance

Returns:

The singleton instance of the ScoreManager

Definition at line 40 of file ScoreManager.cpp.

7.25.3.4 void ScoreManager::NewLevel ()

Starts a new level. Resets the current level counter to 0

Definition at line 35 of file ScoreManager.cpp.

7.25.3.5 ScoreManager & ScoreManager::operator= (const ScoreManager & temp) [protected]

Definition at line 55 of file ScoreManager.cpp.

7.25.3.6 void ScoreManager::Reset ()

Reset the score and current level score to 0

Definition at line 23 of file ScoreManager.cpp.

7.25.3.7 void ScoreManager::ResetLevel ()

Removes points earned in this level from the score. Resets the current level count to 0.

Definition at line 29 of file ScoreManager.cpp.

7.25.4 Member Data Documentation

7.25.4.1 ScoreManager * ScoreManager::m_instance = 0 [static, protected]

Singleton instance

Definition at line 84 of file ScoreManager.h.

7.25.4.2 unsigned int ScoreManager::m_levelScore [protected]

Score earned in the current level

Definition at line 79 of file ScoreManager.h.

7.25.4.3 unsigned int ScoreManager::m_score [protected]

Total score so far

Definition at line 74 of file ScoreManager.h.

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

- branches/GameBase/ScoreManager.h
- branches/GameBase/ScoreManager.cpp

94 Class Documentation

7.26 Square Struct Reference

I'm a square.

#include <GameStructs.h>

Public Member Functions

• Square (double top, double bottom, double left, double right)

Public Attributes

- double top
- double bottom
- double left
- double right

7.26.1 Detailed Description

I'm a square. Struct used to represent a regtangle within the game

Definition at line 26 of file GameStructs.h.

7.26.2 Constructor & Destructor Documentation

7.26.2.1 Square::Square (double top, double bottom, double left, double right) [inline]

Definition at line 28 of file GameStructs.h.

7.26.3 Member Data Documentation

7.26.3.1 double Square::bottom

Definition at line 37 of file GameStructs.h.

7.26.3.2 double Square::left

Definition at line 38 of file GameStructs.h.

7.26.3.3 double Square::right

Definition at line 39 of file GameStructs.h.

7.26.3.4 double Square::top

Definition at line 36 of file GameStructs.h.

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

7.	.26	Squa	are S	truct	Ref	ference
----	-----	------	-------	-------	-----	---------

95

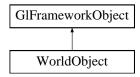
• branches/GameBase/GameStructs.h

96 Class Documentation

7.27 WorldObject Class Reference

World in the game.

#include <WorldObject.h>Inheritance diagram for WorldObject::



Public Member Functions

- WorldObject (const std::wstring &name, GameDude *dude)
- void SetWorldName (const std::wstring &name)
- virtual ~WorldObject ()
- void Draw ()
- void Update (int ticks)
- void Start ()
- double Move (double distance)
- void AddLevel (LevelObject *level)
- bool WorldDone ()
- bool RestartCurrentLevel ()
- std::wstring GetTimerString ()
- void FireSpecialPower (Square startingPos, bool direction)

Protected Attributes

- std::wstring m_worldName
- $std::list < LevelObject * > m_levelList$
- std::list< LevelObject * >::iterator m_currentLevel
- GameDude * m_gameDude

7.27.1 Detailed Description

World in the game. Represents a current world within the game. Handles level loading and management Definition at line 25 of file WorldObject.h.

7.27.2 Constructor & Destructor Documentation

7.27.2.1 WorldObject::WorldObject (const std::wstring & name, GameDude * dude)

Constructor

Parameters:

```
name World Namedude The player's GameDude
```

Definition at line 4 of file WorldObject.cpp.

7.27.2.2 WorldObject::~WorldObject() [virtual]

Destructor

Definition at line 11 of file WorldObject.cpp.

7.27.3 Member Function Documentation

7.27.3.1 void WorldObject::AddLevel (LevelObject * level)

Adds a level to the current world

Remarks:

Should only be used by the GameLoaders

Parameters:

level Level to add

Definition at line 39 of file WorldObject.cpp.

7.27.3.2 void WorldObject::Draw() [virtual]

Draw the world

Implements GlFrameworkObject.

Definition at line 34 of file WorldObject.cpp.

7.27.3.3 void WorldObject::FireSpecialPower (Square startingPos, bool direction)

Fire the special power of the game dude

Parameters:

startingPos Starting Position of the fire

direction Direction to fire

Definition at line 78 of file WorldObject.cpp.

7.27.3.4 std::wstring WorldObject::GetTimerString()

Get time remain string

Returns:

Time remaining as a string

Definition at line 73 of file WorldObject.cpp.

98 Class Documentation

7.27.3.5 double WorldObject::Move (double *distance*)

Move the player distance through the world

Parameters:

distance Distance to move

Returns:

New xOffset

Definition at line 15 of file WorldObject.cpp.

7.27.3.6 bool WorldObject::RestartCurrentLevel ()

Restarts the current level in a world

Returns:

true if successful

Definition at line 63 of file WorldObject.cpp.

7.27.3.7 void WorldObject::SetWorldName (const std::wstring & name)

Sets the world's world name

Parameters:

name The new name for the world

Definition at line 58 of file WorldObject.cpp.

7.27.3.8 void WorldObject::Start ()

Starts the current world

Definition at line 46 of file WorldObject.cpp.

7.27.3.9 void WorldObject::Update (int ticks) [virtual]

Method to update the object

Parameters:

ticks Number of ticks passed since the last call to update

Implements GlFrameworkObject.

Definition at line 20 of file WorldObject.cpp.

7.27.3.10 bool WorldObject::WorldDone ()

Checks to see if the world is done

Returns:

true if the world has been completed

Definition at line 53 of file WorldObject.cpp.

7.27.4 Member Data Documentation

7.27.4.1 std::list<LevelObject *>::iterator WorldObject::m_currentLevel [protected]

The current level for the world

Definition at line 113 of file WorldObject.h.

7.27.4.2 GameDude* WorldObject::m_gameDude [protected]

The current game dude

Definition at line 118 of file WorldObject.h.

7.27.4.3 std::list<LevelObject *> WorldObject::m_levelList [protected]

List of levels in the world

Definition at line 108 of file WorldObject.h.

7.27.4.4 std::wstring WorldObject::m_worldName [protected]

The world's name

Definition at line 103 of file WorldObject.h.

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

- branches/GameBase/WorldObject.h
- branches/GameBase/WorldObject.cpp

100 Class Documentation

Chapter 8

File Documentation

8.1 branches/GameBase/AIObject.cpp File Reference

```
#include "AIObject.h"
#include <windows.h>
#include <gl\gl.h>
```

8.2 branches/GameBase/AIObject.h File Reference

```
#include "GamePiece.h"
```

Classes

• class AIObject

Base class for all AI controled objects.

8.2.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

File contains the base class for all AI controlled objects Definition in file AIObject.h.

8.3 branches/GameBase/AIType1.cpp File Reference

```
#include "AIType1.h"
#include "GameEnums.h"
#include "GameDude.h"
#include "ScoreManager.h"
```

Defines

- #define TRIGGER_DISTANCE 2
- #define LEFT false
- #define RIGHT true
- #define MOVE_DISTANCE 0.005
- #define FALL_SPEED 0.03

8.3.1 Define Documentation

8.3.1.1 #define FALL_SPEED 0.03

Definition at line 10 of file AIType1.cpp.

8.3.1.2 #define LEFT false

Definition at line 7 of file AIType1.cpp.

8.3.1.3 #define MOVE_DISTANCE 0.005

Definition at line 9 of file AIType1.cpp.

8.3.1.4 #define RIGHT true

Definition at line 8 of file AIType1.cpp.

8.3.1.5 #define TRIGGER_DISTANCE 2

Definition at line 6 of file AIType1.cpp.

8.4 branches/GameBase/AIType1.h File Reference

```
#include "AIObject.h"
#include "GameEnums.h"
```

Classes

• class AIType1

Dumb AI Class.

8.4.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Style 1 AI Controlled Enemy AI will bounce of blocks and walk of cliffs Definition in file AIType1.h.

8.5 branches/GameBase/AIType2.cpp File Reference

#include "AIType2.h"

8.6 branches/GameBase/AIType2.h File Reference

```
#include "AIType1.h"
#include "GameEnums.h"
```

Classes

• class AIType2

Not so dumb AI Class.

8.6.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Style 1 AI Controlled Enemy AI will bounce of blocks and will not walk of cliffs Definition in file AIType2.h.

8.7 branches/GameBase/AudioManager.cpp File Reference

```
#include "AudioManager.h"
#include <al.h>
#include <alc.h>
#include <al\alut.h>
#include <conio.h>
#include <cstdlib>
#include <iostream>
```

8.7.1 Detailed Description

Author:

```
Jon Caron | 88@gmail.com>
```

Version:

1.0

This is the AudioManager class for the SuperEastGate. The functions this class performs are; looping background sounds, gameplay sounds based on action, pausing sounds, stopping sounds, and possibly loading sounds on demmand.

Definition in file AudioManager.cpp.

8.8 branches/GameBase/AudioManager.h File Reference

```
#include <al.h>
#include <alc.h>
#include <al\alut.h>
#include <conio.h>
#include <cstdlib>
#include <iostream>
```

Classes

• class AudioManager

Singeton Object to play and pause sounds.

Enumerations

```
    enum SoundLookup {
    SL_SONG1 = 0, SL_SONG2 = 1, SL_SONG3 = 2, SL_SONG4 = 3,
    SL_PWRUP = 4, SL_CHCKPT = 5, SL_COINS = 6, SL_HITBRICK = 7 }
```

8.8.1 Detailed Description

Author:

```
Jon Caron < caronj88@gmail.com>
```

Version:

1.0

Contains all relivant classes and enums for playing audio

Definition in file AudioManager.h.

8.8.2 Enumeration Type Documentation

8.8.2.1 enum SoundLookup

enum to use to play the appropriate sound

Enumerator:

SL_SONG1

SL_SONG2

SL_SONG3

SL_SONG4

SL_PWRUP

SL_CHCKPT SL_COINS SL_HITBRICK

Definition at line 25 of file AudioManager.h.

8.9 branches/GameBase/BackGroundManager.cpp File Reference

```
#include "BackGroundManager.h"
#include "GraphicLoaders.h"
#include <windows.h>
#include <gl\gl.h>
```

8.10 branches/GameBase/BackGroundManager.h File Reference

```
#include "GraphicLoaders.h"
#include <string>
```

Classes

• class BackGroundManager

Displays the background of the game.

8.10.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Class to manage which section of the background image to display to the user.

Definition in file BackGroundManager.h.

8.11 branches/GameBase/CollisionObject.h File Reference

```
#include "GameEnums.h"
```

Classes

• class CollisionObject

Basic Collision Detection Object.

8.11.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

This file contains the interface used for the collision detection system Definition in file CollisionObject.h.

8.12 branches/GameBase/ControlObject.cpp File Reference

```
#include "ControlObject.h"
#include <string>
#include <windows.h>
#include <fstream>
#include "UtilFunctions.h"
#include "Converter.h"
```

8.13 branches/GameBase/ControlObject.h File Reference

```
#include <string>
```

Classes

• class ControlObject

Keyboard Control Manager.

Enumerations

```
    enum Controls {
    CO_RIGHT = 0, CO_LEFT = 1, CO_JUMP = 2, CO_CROUCH = 3,
    CO_PAUSE = 4, CO_USE_SPECIAL = 5, CO_MAX_CONTROL }
```

8.13.1 Detailed Description

Author:

```
Ryan Fleming <rfleming71@gmail.com>
```

Version:

1.0

Contains all relevant code for user configurable controls

Definition in file ControlObject.h.

8.13.2 Enumeration Type Documentation

8.13.2.1 enum Controls

Unquiely ids each control the player can use

Enumerator:

```
CO_RIGHT
CO_LEFT
CO_JUMP
CO_CROUCH
CO_PAUSE
CO_USE_SPECIAL
CO_MAX_CONTROL
```

Definition at line 18 of file ControlObject.h.

8.14 branches/GameBase/Converter.cpp File Reference

```
#include "Converter.h"
#include <sstream>
#include <string>
```

8.15 branches/GameBase/Converter.h File Reference

```
#include <exception>
#include <string>
```

Classes

• class Converter::ConverterException Converter Exception.

Namespaces

• namespace Converter Conversion Functions.

Functions

- std::string Converter::IntToString (const int &value)
- std::string Converter::UIntToString (const unsigned int &value)
- int Converter::StringToInt (const std::string &value)
- double Converter::StringToDouble (const std::string &value)
- unsigned int Converter::StringToUInt (const std::string &value)
- std::wstring Converter::StringToWString (const std::string &stringToConvert)
- std::string Converter::WStringToString (const std::wstring &stringToConvert)

8.15.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

This is the converter utility functions This namespace supplies funtions to perform basic string conversions Definition in file Converter.h.

8.16 branches/GameBase/GameBase.cpp File Reference

```
#include "GameBase.h"
#include "WorldObject.h"
#include "GraphicLoaders.h"
#include "GameLoader.h"
#include "GameEnums.h"
#include <windows.h>
#include <gl\gl.h>
#include "Converter.h"
#include "ScoreManager.h"
#include "Menu.h"
```

Defines

• #define FIRE_DELAY 1000

8.16.1 Define Documentation

8.16.1.1 #define FIRE_DELAY 1000

Definition at line 12 of file GameBase.cpp.

8.17 branches/GameBase/GameBase.h File Reference

```
#include <list>
#include "GlApplication.h"
#include "WorldObject.h"
#include "GameDude.h"
#include "GameEnums.h"
#include "ControlObject.h"
#include "Menu.h"
```

Classes

• class GameBase

Primary Game Class.

8.17.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

Primary class for the game. This is the primary class to control the program Definition in file GameBase.h.

8.18 branches/GameBase/GameDude.cpp File Reference

```
#include "GameDude.h"
#include "GameStructs.h"
#include <windows.h>
#include <gl\gl.h>
```

Defines

- #define JUMP_HEIGHT SQUARE_SIZE * 1.5
- #define JUMP_RATE 0.03

8.18.1 Define Documentation

8.18.1.1 #define JUMP_HEIGHT SQUARE_SIZE * 1.5

Definition at line 6 of file GameDude.cpp.

8.18.1.2 #define JUMP_RATE 0.03

Definition at line 7 of file GameDude.cpp.

8.19 branches/GameBase/GameDude.h File Reference

```
#include "GamePiece.h"
#include "GameEnums.h"
#include "GameStructs.h"
#include "GlFrameworkObject.h"
```

Classes

• class GameDude

The player avatar.

8.19.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

Game Dude object represents the players avatar in the game In maintians the states of the player Definition in file GameDude.h.

8.20 branches/GameBase/GameEnums.h File Reference

Enumerations

```
enum CollisionSideEnum { CS_TOP = 0, CS_RIGHT = 1, CS_BOTTOM = 2, CS_LEFT = 3 }
enum GameDudeStatus { GDS_DEAD = 0, GDS_SMALL = 1, GDS_BIG = 2, GDS_SPECIAL = 3 }
enum HoriztonalStatus { HS_LEFT = 0, HS_NONE = 1, HS_RIGHT = 2 }
enum VerticalStatus { VS_JUMPING = 0, VS_NONE = 1, VS_FALLING = 2 }
enum GameObjects {
    GO_BRICK_BLOCK = 0, GO_AI_TYPE1 = 1, GO_AI_TYPE2 = 2, GO_PIPE = 3,
    GO_LEVEL_END = 4, GO_SPECIAL_BLOCK = 5 }
enum GameState {
    GS_STARTING_MENU = 0, GS_OPTIONS_MENU = 1, GS_PAUSE_MENU = 2, GS_GAME_PLAYING = 3,
    GS_PLAYER_DEAD = 4, GS_GAME_CREDITS = 5, GS_QUITING = 6 }
enum ScoreObject { SO_AI_TYPE_1 = 0, SO_AI_TYPE_2 = 1, SO_LEVEL_END = 2 }
enum StartMenuItem {
    SMI_NEW_GAME = 0, SMI_LOAD_GAME = 1, SMI_OPTIONS = 2, SMI_QUIT = 3, SMI_INVALID = -1 }
```

8.20.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

This file contains the majority of the enums used throught the game

Definition in file GameEnums.h.

8.20.2 Enumeration Type Documentation

8.20.2.1 enum CollisionSideEnum

Used in the collision detection system. Used to indicate which side of an object has been collided with

Enumerator:

```
CS_TOP
CS_RIGHT
CS_BOTTOM
CS_LEFT
```

Definition at line 18 of file GameEnums.h.

8.20.2.2 enum GameDudeStatus

This enum represents the current state of the player character within the game

Enumerator:

```
GDS_DEAD
GDS_SMALL
GDS_BIG
GDS_SPECIAL
```

Definition at line 30 of file GameEnums.h.

8.20.2.3 enum GameObjects

Used to track object id used in the game loader each id allows a given game object to be loaded into a level

Enumerator:

```
GO_BRICK_BLOCK
GO_AI_TYPE1
GO_AI_TYPE2
GO_PIPE
GO_LEVEL_END
GO_SPECIAL_BLOCK
```

Definition at line 62 of file GameEnums.h.

8.20.2.4 enum GameState

This enum tracks the current action the game is performing

Enumerator:

```
GS_STARTING_MENU
GS_OPTIONS_MENU
GS_PAUSE_MENU
GS_GAME_PLAYING
GS_PLAYER_DEAD
GS_GAME_CREDITS
GS_QUITING
```

Definition at line 75 of file GameEnums.h.

8.20.2.5 enum HoriztonalStatus

Used to represent an objects current horizontal movement

Enumerator:

```
HS_LEFT
HS_NONE
HS_RIGHT
```

Definition at line 41 of file GameEnums.h.

8.20.2.6 enum ScoreObject

Used to track each object when it adds to the players score

Enumerator:

```
SO_AI_TYPE_1
SO_AI_TYPE_2
SO_LEVEL_END
```

Definition at line 89 of file GameEnums.h.

8.20.2.7 enum StartMenuItem

Used to unquiely ID each option located in the starting menu

Enumerator:

```
SMI_NEW_GAME
SMI_LOAD_GAME
SMI_OPTIONS
SMI_QUIT
SMI_INVALID
```

Definition at line 99 of file GameEnums.h.

8.20.2.8 enum VerticalStatus

Used to represent an objects current vertical movement

Enumerator:

```
VS_JUMPING
VS_NONE
VS_FALLING
```

Definition at line 51 of file GameEnums.h.

8.21 branches/GameBase/GameLoader.cpp File Reference

```
#include "GameLoader.h"
#include <list>
#include <string>
#include <fstream>
#include "LevelObject.h"
#include "WorldObject.h"
#include "GamePiece.h"
#include "UtilFunctions.h"
#include "Converter.h"
#include "GameStructs.h"
#include "GameEnums.h"
#include "GraphicLoaders.h"
#include "GameDude.h"
#include "LevelEndObject.h"
#include "AIType1.h"
#include "AIType2.h"
#include "PowerUpBlock.h"
#include "PowerUpItem.h"
#include "AudioManager.h"
```

8.22 branches/GameBase/GameLoader.h File Reference

```
#include <list>
#include <string>
#include "WorldObject.h"
#include "LevelObject.h"
#include "GameStructs.h"
```

Namespaces

• namespace GameLoader

Used to convert images into openGL texture ids.

Functions

- bool GameLoader::RunLoader (const std::wstring &worldsFileName, std::list< WorldObject * > &list, GameDude *dude)
- bool GameLoader::LoadLevel (const std::wstring &levelFileName, LevelObject *level)
- Square GameLoader::GameGridToCoords (double x, double y)

8.22.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

This namespace supplies the neccessary functions to load All game control objects from the given files Definition in file GameLoader.h.

8.23 branches/GameBase/GamePiece.cpp File Reference

```
#include "GamePiece.h"
#include "GameStructs.h"
#include "AudioManager.h"
#include <windows.h>
#include <gl/gl.h>
```

Defines

• #define _ENABLE_BREAKABLE_BLOCKS_

8.23.1 Define Documentation

8.23.1.1 #define _ENABLE_BREAKABLE_BLOCKS_

Definition at line 8 of file GamePiece.cpp.

8.24 branches/GameBase/GamePiece.h File Reference

```
#include "GameStructs.h"
#include "CollisionObject.h"
```

Classes

• class GamePiece

General Game Object.

8.24.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Base class for all objects the player can see on the screen and the GameDude can interact with. Definition in file GamePiece.h.

8.25 branches/GameBase/GameStructs.h File Reference

Classes

• struct Square

I'm a square.

Defines

• #define SQUARE_SIZE 10.0

8.25.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

This file contains the majority of the structs used throught the game Definition in file GameStructs.h.

8.25.2 Define Documentation

8.25.2.1 #define SQUARE_SIZE 10.0

Definition at line 18 of file GameStructs.h.

This value represents the size of each game block

8.26 branches/GameBase/GlApplication.cpp File Reference

```
#include "GlApplication.h"
#include <string>
#include <windows.h>
#include <gl\gl.h>
#include <gl\glu.h>
#include "GlFrameworkObject.h"
```

Defines

• #define CLASS_NAME L"OpenG1"

Functions

• LRESULT CALLBACK WindowProc (HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)

8.26.1 Define Documentation

8.26.1.1 #define CLASS_NAME L"OpenGI"

Definition at line 25 of file GlApplication.cpp.

8.26.2 Function Documentation

8.26.2.1 LRESULT CALLBACK WindowProc (HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)

Definition at line 17 of file WindowProc.cpp.

8.27 branches/GameBase/GlApplication.h File Reference

```
#include <string>
#include <windows.h>
#include <list>
#include "GlWindow.h"
#include "KeyHandler.h"
#include "GlFrameworkObject.h"
#include "Point.h"
```

Classes

• class GlApplication

Base Class for OpenGl Applications.

8.27.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

Base Class for OpenGl Applications Class handles window setup and message handling Definition in file GlApplication.h.

8.28 branches/GameBase/GlFrameworkObject.h File Reference

Classes

• class GlFrameworkObject

Interface for objects to interact with GlApplication.

8.28.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Base class for the Framework Objects

Definition in file GlFrameworkObject.h.

8.29 branches/GameBase/GlWindow.cpp File Reference

```
#include "GlWindow.h"
#include <windows.h>
#include <string.h>
#include <gl\gl.h>
#include <gl\glu.h>
```

8.30 branches/GameBase/GlWindow.h File Reference

```
#include <string>
#include <windows.h>
```

Classes

• class GlWindow

Window in Windows.

8.30.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

Class to handle window create and management

Definition in file GlWindow.h.

8.31 branches/GameBase/GraphicLoaders.h File Reference

```
#include <string>
```

Namespaces

• namespace GraphicLoaders Loads Graphics.

Typedefs

• typedef unsigned int GraphicLoaders::TextureIdentifier

Functions

- bool GraphicLoaders::LoadNewBitmap (const std::wstring &fileName, TextureIdentifier &textureId)
- bool GraphicLoaders::LoadTga (const std::wstring &fileName, TextureIdentifier &textureId)
- bool GraphicLoaders::LoadTga (const std::string &fileName, TextureIdentifier &textureId)

8.31.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Namespace to load different graphic formats into openGL textures

Definition in file GraphicLoaders.h.

8.32 branches/GameBase/KeyHandler.cpp File Reference

#include "KeyHandler.h"
#include <cstring>

8.33 branches/GameBase/KeyHandler.h File Reference

Classes

• class KeyHandler

Manages key presses.

Defines

• #define MAX_KEYS 256

8.33.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Class manage which keys are currently being pressed Definition in file KeyHandler.h.

8.33.2 Define Documentation

8.33.2.1 #define MAX_KEYS 256

Maximum number of keys to handle Definition at line 16 of file KeyHandler.h.

8.34 branches/GameBase/LevelEndObject.cpp File Reference

```
#include "LevelEndObject.h"
#include "GameDude.h"
#include "ScoreManager.h"
#include "GameEnums.h"
#include "AudioManager.h"
#include <windows.h>
#include <gl\gl.h>
```

8.35 branches/GameBase/LevelEndObject.h File Reference

```
#include "GamePiece.h"
```

Classes

• class LevelEndObject

Object used to track if a level has ended.

8.35.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Object used to check the level status. This object will return true when the level is over Definition in file LevelEndObject.h.

8.36 branches/GameBase/LevelObject.cpp File Reference

```
#include "LevelObject.h"
#include "GameDude.h"
#include "GameLoader.h"
#include "ScoreManager.h"
#include "Converter.h"
#include "PowerObject.h"
#include "AudioManager.h"
#include <windows.h>
#include <gl\gl.h>
```

Defines

- #define RIGHT_MOVE_DISTANCE 0.035
- #define LEFT_MOVE_DISTANCE -RIGHT_MOVE_DISTANCE
- #define CLIP_DISTANCE 5.0

8.36.1 Define Documentation

8.36.1.1 #define CLIP_DISTANCE 5.0

Definition at line 14 of file LevelObject.cpp.

8.36.1.2 #define LEFT_MOVE_DISTANCE -RIGHT_MOVE_DISTANCE

Definition at line 13 of file LevelObject.cpp.

8.36.1.3 #define RIGHT_MOVE_DISTANCE 0.035

Definition at line 12 of file LevelObject.cpp.

8.37 branches/GameBase/LevelObject.h File Reference

```
#include <string>
#include <list>
#include "AIObject.h"
#include "GamePiece.h"
#include "BackGroundManager.h"
#include "GameDude.h"
#include "LevelEndObject.h"
#include "PowerObject.h"
```

Classes

• class LevelObject

Level in the game.

8.37.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Represents a level within the game. Handles all AI objects, Special Powers and block collisions Definition in file LevelObject.h.

8.38 branches/GameBase/main.cpp File Reference

```
#include <windows.h>
#include "GameBase.h"
```

Functions

• int WINAPI WinMain (HINSTANCE hInstance, HINSTANCE prevInstance, LPSTR lpCmdLine, int nCmdShow)

8.38.1 Function Documentation

8.38.1.1 int WINAPI WinMain (HINSTANCE hInstance, HINSTANCE prevInstance, LPSTR lpCmdLine, int nCmdShow)

Definition at line 20 of file main.cpp.

8.39 branches/GameBase/Menu.cpp File Reference

```
#include "Menu.h"
#include <windows.h>
#include <gl\gl.h>
#include "MenuItem.h"
#include "Point.h"
#include <list>
```

Defines

• #define INVALID_ID -1

8.39.1 Define Documentation

8.39.1.1 #define INVALID_ID -1

Definition at line 9 of file Menu.cpp.

8.40 branches/GameBase/Menu.h File Reference

```
#include "GlFrameworkObject.h"
#include "MenuItem.h"
#include "GameStructs.h"
#include <list>
#include <string>
```

Classes

• class Menu

Menu Class.

8.40.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

General Menu Class

Definition in file Menu.h.

8.41 branches/GameBase/MenuItem.cpp File Reference

```
#include "MenuItem.h"
#include <windows.h>
#include <gl\gl.h>
```

8.42 branches/GameBase/MenuItem.h File Reference

```
#include <string>
#include "GameStructs.h"
#include "Point.h"
```

Classes

• class MenuItem

Items that appear within a menu.

8.42.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

Items that appear within a menu

Definition in file MenuItem.h.

8.43 branches/GameBase/OpenAL/AL/alut.h File Reference

#include <AL/al.h>
#include <AL/alc.h>

Defines

- #define AL_ALUT_H
- #define ALUT_API extern
- #define ALUT_APIENTRY
- #define ALUT_ATTRIBUTE_DEPRECATED
- #define ALUT_API_MAJOR_VERSION 1
- #define ALUT_API_MINOR_VERSION 1
- #define ALUT ERROR NO ERROR 0
- #define ALUT_ERROR_OUT_OF_MEMORY 0x200
- #define ALUT ERROR INVALID ENUM 0x201
- #define ALUT_ERROR_INVALID_VALUE 0x202
- #define ALUT_ERROR_INVALID_OPERATION 0x203
- #define ALUT_ERROR_NO_CURRENT_CONTEXT 0x204
- #define ALUT_ERROR_AL_ERROR_ON_ENTRY 0x205
- #define ALUT_ERROR_ALC_ERROR_ON_ENTRY 0x206
- #define ALUT_ERROR_OPEN_DEVICE 0x207
- #define ALUT_ERROR_CLOSE_DEVICE 0x208
- #define ALUT_ERROR_CREATE_CONTEXT 0x209
- #define ALUT ERROR MAKE CONTEXT CURRENT 0x20A
- #define ALUT_ERROR_DESTROY_CONTEXT 0x20B
- #define ALUT_ERROR_GEN_BUFFERS 0x20C
- #define ALUT_ERROR_BUFFER_DATA 0x20D
- #define ALUT ERROR IO ERROR 0x20E
- #define ALUT_ERROR_UNSUPPORTED_FILE_TYPE 0x20F
- #define ALUT_ERROR_UNSUPPORTED_FILE_SUBTYPE 0x210
- #define ALUT_ERROR_CORRUPT_OR_TRUNCATED_DATA 0x211
- #define ALUT_WAVEFORM_SINE 0x100
- #define ALUT_WAVEFORM_SQUARE 0x101
- #define ALUT WAVEFORM SAWTOOTH 0x102
- #define ALUT_WAVEFORM_WHITENOISE 0x103
- #define ALUT_WAVEFORM_IMPULSE 0x104
- #define ALUT_LOADER_BUFFER 0x300
- #define ALUT LOADER MEMORY 0x301

Functions

- ALUT_API ALboolean ALUT_APIENTRY alutInit (int *argcp, char **argv)
- ALUT_API ALboolean ALUT_APIENTRY alutInitWithoutContext (int *argcp, char **argv)
- ALUT_API ALboolean ALUT_APIENTRY alutExit (void)
- ALUT_API ALenum ALUT_APIENTRY alutGetError (void)
- ALUT_API const char *ALUT_APIENTRY alutGetErrorString (ALenum error)
- ALUT_API ALuint ALUT_APIENTRY alutCreateBufferFromFile (const char *fileName)

- ALUT_API ALuint ALUT_APIENTRY alutCreateBufferFromFileImage (const ALvoid *data, ALsizei length)
- ALUT_API ALuint ALUT_APIENTRY alutCreateBufferHelloWorld (void)
- ALUT_API ALuint ALUT_APIENTRY alutCreateBufferWaveform (ALenum waveshape, ALfloat frequency, ALfloat phase, ALfloat duration)
- ALUT_API ALvoid *ALUT_APIENTRY alutLoadMemoryFromFile (const char *fileName, ALenum *format, ALsizei *size, ALfloat *frequency)
- ALUT_API ALvoid *ALUT_APIENTRY alutLoadMemoryFromFileImage (const ALvoid *data, ALsizei length, ALenum *format, ALsizei *size, ALfloat *frequency)
- ALUT_API ALvoid *ALUT_APIENTRY alutLoadMemoryHelloWorld (ALenum *format, ALsizei *size, ALfloat *frequency)
- ALUT_API ALvoid *ALUT_APIENTRY alutLoadMemoryWaveform (ALenum waveshape, ALfloat frequency, ALfloat phase, ALfloat duration, ALenum *format, ALsizei *size, ALfloat *freq)
- ALUT_API const char *ALUT_APIENTRY alutGetMIMETypes (ALenum loader)
- ALUT_API ALint ALUT_APIENTRY alutGetMajorVersion (void)
- ALUT_API ALint ALUT_APIENTRY alutGetMinorVersion (void)
- ALUT_API ALboolean ALUT_APIENTRY alutSleep (ALfloat duration)
- ALUT_API ALUT_ATTRIBUTE_DEPRECATED void ALUT_APIENTRY alutLoadWAVFile (ALbyte *fileName, ALenum *format, void **data, ALsizei *size, ALsizei *frequency, ALboolean *loop)
- ALUT_API ALUT_ATTRIBUTE_DEPRECATED void ALUT_APIENTRY alutLoadWAVMemory (ALbyte *buffer, ALenum *format, void **data, ALsizei *size, ALsizei *frequency, ALboolean *loop)
- ALUT_API ALUT_ATTRIBUTE_DEPRECATED void ALUT_APIENTRY alutUnloadWAV (ALenum format, ALvoid *data, ALsizei size, ALsizei frequency)

8.43.1 Define Documentation

8.43.1.1 #define AL_ALUT_H

Definition at line 2 of file alut.h.

8.43.1.2 #define ALUT_API extern

Definition at line 29 of file alut.h.

8.43.1.3 #define ALUT_API_MAJOR_VERSION 1

Definition at line 52 of file alut.h.

8.43.1.4 #define ALUT_API_MINOR_VERSION 1

Definition at line 53 of file alut.h.

8.43.1.5 #define ALUT APIENTRY

Definition at line 36 of file alut.h.

8.43.1.6 #define ALUT_ATTRIBUTE_DEPRECATED

Definition at line 49 of file alut.h.

8.43.1.7 #define ALUT_ERROR_AL_ERROR_ON_ENTRY 0x205

Definition at line 61 of file alut.h.

8.43.1.8 #define ALUT_ERROR_ALC_ERROR_ON_ENTRY 0x206

Definition at line 62 of file alut.h.

8.43.1.9 #define ALUT ERROR BUFFER DATA 0x20D

Definition at line 69 of file alut.h.

8.43.1.10 #define ALUT_ERROR_CLOSE_DEVICE 0x208

Definition at line 64 of file alut.h.

8.43.1.11 #define ALUT_ERROR_CORRUPT_OR_TRUNCATED_DATA 0x211

Definition at line 73 of file alut.h.

8.43.1.12 #define ALUT_ERROR_CREATE_CONTEXT 0x209

Definition at line 65 of file alut.h.

8.43.1.13 #define ALUT_ERROR_DESTROY_CONTEXT 0x20B

Definition at line 67 of file alut.h.

8.43.1.14 #define ALUT_ERROR_GEN_BUFFERS 0x20C

Definition at line 68 of file alut.h.

8.43.1.15 #define ALUT_ERROR_INVALID_ENUM 0x201

Definition at line 57 of file alut.h.

8.43.1.16 #define ALUT_ERROR_INVALID_OPERATION 0x203

Definition at line 59 of file alut.h.

8.43.1.17 #define ALUT_ERROR_INVALID_VALUE 0x202

Definition at line 58 of file alut.h.

8.43.1.18 #define ALUT_ERROR_IO_ERROR 0x20E

Definition at line 70 of file alut.h.

8.43.1.19 #define ALUT_ERROR_MAKE_CONTEXT_CURRENT 0x20A

Definition at line 66 of file alut.h.

8.43.1.20 #define ALUT ERROR NO CURRENT CONTEXT 0x204

Definition at line 60 of file alut.h.

8.43.1.21 #define ALUT_ERROR_NO_ERROR 0

Definition at line 55 of file alut.h.

8.43.1.22 #define ALUT_ERROR_OPEN_DEVICE 0x207

Definition at line 63 of file alut.h.

8.43.1.23 #define ALUT_ERROR_OUT_OF_MEMORY 0x200

Definition at line 56 of file alut.h.

8.43.1.24 #define ALUT_ERROR_UNSUPPORTED_FILE_SUBTYPE 0x210

Definition at line 72 of file alut.h.

8.43.1.25 #define ALUT_ERROR_UNSUPPORTED_FILE_TYPE 0x20F

Definition at line 71 of file alut.h.

8.43.1.26 #define ALUT_LOADER_BUFFER 0x300

Definition at line 81 of file alut.h.

8.43.1.27 #define ALUT_LOADER_MEMORY 0x301

Definition at line 82 of file alut.h.

8.43.1.28	#define ALUT_WAVEFORM_IMPULSE 0x104	
Definition	at line 79 of file alut.h.	
8.43.1.29	#define ALUT_WAVEFORM_SAWTOOTH 0x102	
Definition	at line 77 of file alut.h.	
8.43.1.30	#define ALUT_WAVEFORM_SINE 0x100	
Definition at line 75 of file alut.h.		
8.43.1.31	#define ALUT_WAVEFORM_SQUARE 0x101	
Definition	at line 76 of file alut.h.	
8.43.1.32	#define ALUT_WAVEFORM_WHITENOISE 0x103	
Definition	at line 78 of file alut.h.	

150

File Documentation

8.43 branches/GameBase/OpenAL/AL/alut.h File Reference	151

- 8.43.2.1 ALUT_API ALuint ALUT_APIENTRY alutCreateBufferFromFile (const char * fileName)
- 8.43.2.2 ALUT_API ALuint ALUT_APIENTRY alutCreateBufferFromFileImage (const ALvoid * data, ALsizei length)
- 8.43.2.3 ALUT_API ALuint ALUT_APIENTRY alutCreateBufferHelloWorld (void)
- 8.43.2.4 ALUT_API ALuint ALUT_APIENTRY alutCreateBufferWaveform (ALenum waveshape, ALfloat frequency, ALfloat phase, ALfloat duration)
- 8.43.2.5 ALUT_API ALboolean ALUT_APIENTRY alutExit (void)
- 8.43.2.6 ALUT API ALenum ALUT APIENTRY alutGetError (void)
- 8.43.2.7 ALUT_API const char* ALUT_APIENTRY alutGetErrorString (ALenum error)
- 8.43.2.8 ALUT API ALINT APIENTRY alutGetMajorVersion (void)
- 8.43.2.9 ALUT_API const char* ALUT_APIENTRY alutGetMIMETypes (ALenum loader)
- 8.43.2.10 ALUT_API ALint ALUT_APIENTRY alutGetMinorVersion (void)
- 8.43.2.11 ALUT_API ALboolean ALUT_APIENTRY alutInit (int * argcp, char ** argv)
- 8.43.2.12 ALUT_API ALboolean ALUT_APIENTRY alutInitWithoutContext (int * argcp, char ** argv)
- 8.43.2.13 ALUT_API ALvoid* ALUT_APIENTRY alutLoadMemoryFromFile (const char * fileName, ALenum * format, ALsizei * size, ALfloat * frequency)
- 8.43.2.14 ALUT_API ALvoid* ALUT_APIENTRY alutLoadMemoryFromFileImage (const ALvoid * data, ALsizei length, ALenum * format, ALsizei * size, ALfloat * frequency)
- 8.43.2.15 ALUT_API ALvoid* ALUT_APIENTRY alutLoadMemoryHelloWorld (ALenum * format, ALsizei * size, ALfloat * frequency)
- 8.43.2.16 ALUT_API ALvoid* ALUT_APIENTRY alutLoadMemoryWaveform (ALenum waveshape, ALfloat frequency, ALfloat phase, ALfloat duration, ALenum * format, ALsizei * size, ALfloat * freq)
- 8.43.2.17 ALUT_API ALUT_ATTRIBUTE_DEPRECATED void ALUT_APIENTRY alutLoadWAVFile (ALbyte * fileName, ALenum * format, void ** data, ALsizei * size, ALsizei * frequency, ALboolean * loop)
- 8.43.2.18 ALUT_API ALUT_ATTRIBUTE_DEPRECATED void ALUT_APIENTRY alutLoadWAVMemory (ALbyte * buffer, ALenum * format, void ** data, ALsizei * size, ALsizei * frequency, ALboolean * loop)
- 8.43.2.19 ALUT_API ALboolean ALUT_APIENTRY alutSleep (ALfloat duration)
- 8.43.2.20 ALUT_API ALUT_ATTRIBUTE_DEPRECATED void ALUT_APIENTRY

 alutUnloadWAV (ALenum format, ALyoid * data, ALsizei size, ALsizei frequency)
 Generated on Sun Apr 11 19:42:53 20:10 for Super Eastgate by Boxygen

8.44 branches/GameBase/Point.h File Reference

Classes

• struct Point

A single point Represents a single point in openGL space.

8.44.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

This file contains the struct that represents a point openGL space

Todo

Merge this file into GameStructs

Definition in file Point.h.

8.45 branches/GameBase/PowerObject.cpp File Reference

```
#include "PowerObject.h"
#include <windows.h>
#include <gl\gl.h>
#include "GamePiece.h"
#include "GameStructs.h"
```

Defines

- #define MOVE_SPEED 0.05
- #define LEFT false
- #define **RIGHT** true

8.45.1 Define Documentation

8.45.1.1 #define LEFT false

Definition at line 9 of file PowerObject.cpp.

8.45.1.2 #define MOVE_SPEED **0.05**

Definition at line 8 of file PowerObject.cpp.

8.45.1.3 #define RIGHT true

Definition at line 10 of file PowerObject.cpp.

8.46 branches/GameBase/PowerObject.h File Reference

```
#include "GamePiece.h"
#include "GameStructs.h"
```

Classes

• class PowerObject

The special power.

8.46.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

The object that game dude fires when using the special powers Definition in file PowerObject.h.

8.47 branches/GameBase/PowerUpBlock.cpp File Reference

#include "PowerUpBlock.h"
#include "AudioManager.h"

8.48 branches/GameBase/PowerUpBlock.h File Reference

```
#include "GamePiece.h"
#include "PowerUpItem.h"
```

Classes

• class PowerUpBlock

Block that creates a PowerUpItem.

8.48.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Special Power Block. Upon hitting, it triggers the PowerUpItem Definition in file PowerUpBlock.h.

8.49 branches/GameBase/PowerUpItem.cpp File Reference

```
#include "PowerUpItem.h"
#include "GameStructs.h"
#include "GameDude.h"
#include "GameEnums.h"
#include "AudioManager.h"
```

Defines

- #define VERTICAL_RATE 0.01
- #define MOVE_RATE 0.01

8.49.1 Define Documentation

8.49.1.1 #define MOVE_RATE 0.01

Definition at line 8 of file PowerUpItem.cpp.

8.49.1.2 #define VERTICAL_RATE 0.01

Definition at line 7 of file PowerUpItem.cpp.

8.50 branches/GameBase/PowerUpItem.h File Reference

```
#include "AIObject.h"
#include "AIType1.h"
#include "GameEnums.h"
```

Classes

• class PowerUpItem

Power Up Item.

8.50.1 Detailed Description

Author:

```
Ryan Fleming < rfleming 71@gmail.com>
```

Version:

1.0

Power up item, upon touching the game dude status is increased by 1 Definition in file PowerUpItem.h.

160 File Documentation

8.51 branches/GameBase/RgbaColor.h File Reference

Classes

• struct RgbaColor OpenGL Color.

8.51.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

File contains the struct to represent an openGL color

Todo

Merge this file into GameStructs.h

Definition in file RgbaColor.h.

8.52 branches/GameBase/ScoreManager.cpp File Reference

#include "ScoreManager.h"

File Documentation

8.53 branches/GameBase/ScoreManager.h File Reference

```
#include "GameEnums.h"
```

Classes

• class ScoreManager

Tracks the players score.

8.53.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Class to keep trace of the current playes score. Singleton Object

Definition in file ScoreManager.h.

8.54 branches/GameBase/UtilFunctions.cpp File Reference

```
#include "UtilFunctions.h"
#include <string>
#include <vector>
```

164 File Documentation

8.55 branches/GameBase/UtilFunctions.h File Reference

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

Namespaces

• namespace UtilFunctions

Utility Functions Contains several useful functions that fail to fit elsewhere.

Typedefs

- typedef std::vector< std::string * > UtilFunctions::StringTokensType
- typedef StringTokensType * UtilFunctions::StringTokens

Functions

- std::string UtilFunctions::TrimWhiteSpace (const std::string &startString)
- UtilFunctions::StringTokens UtilFunctions::StringTokenizer (const std::string &baseString, const std::string &delimiters)
- UtilFunctions::StringTokens UtilFunctions::StringTokenizer2 (const std::string &baseString, const std::string &delimiters)
- void UtilFunctions::DestroyStringTokens (UtilFunctions::StringTokens tokens)

8.55.1 Detailed Description

Common functions

Author:

Ryan Fleming <rfleming71@kb71.com>

Since:

0.2

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

2.0

This file contains general usage functions

Definition in file UtilFunctions.h.

8.56 branches/GameBase/WindowProc.cpp File Reference

#include "GlApplication.h"

Functions

• LRESULT CALLBACK WindowProc (HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)

8.56.1 Function Documentation

8.56.1.1 LRESULT CALLBACK WindowProc (HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)

Definition at line 17 of file WindowProc.cpp.

File Documentation

8.57 branches/GameBase/WorldObject.cpp File Reference

#include "WorldObject.h"
#include "GameDude.h"

8.58 branches/GameBase/WorldObject.h File Reference

```
#include <list>
#include <string>
#include "GlFrameworkObject.h"
#include "LevelObject.h"
#include "GameDude.h"
```

Classes

• class WorldObject

World in the game.

8.58.1 Detailed Description

Author:

Ryan Fleming < rfleming 71@gmail.com>

Version:

1.0

Represents a current world within the game. Handles level loading and management Definition in file WorldObject.h.

Index

~AIType1	AddLevel
AIType1, 25	WorldObject, 97
~AIType2	AddMenuItem
AIType2, 27	Menu, 76
~AudioManager	AddToScore
AudioManager, 30	ScoreManager, 92
~BackGroundManager	AIObject, 21
BackGroundManager, 34	AIObject, 22
~ControlObject	Draw, 22
ControlObject, 38	GetActiveStatus, 22
~GameBase	m_active, 23
GameBase, 42	m_gameFloor, 23
~GameDude	m_killed, 23
GameDude, 46	m_vStatus, 23
~GlApplication	SetVerticalStatus, 22
GlApplication, 55	Trigger, 22
~GlWindow	Update, 23
GlWindow, 60	AIType1, 24
~LevelEndObject	~AIType1, 25
LevelEndObject, 66	AIType1, 24
~LevelObject	CheckCollision, 25
LevelObject, 69	Collide, 25
~Menu	m_direction, 26
Menu, 75	m_textureIds, 26
~MenuItem	SwitchDirections, 25
MenuItem, 78	Trigger, 26
~PowerObject	Update, 26
PowerObject, 82	AIType1.cpp
~PowerUpBlock	FALL_SPEED, 103
PowerUpBlock, 85	LEFT, 103
~PowerUpItem	MOVE_DISTANCE, 103
PowerUpItem, 88	RIGHT, 103
~ScoreManager	TRIGGER_DISTANCE, 103
ScoreManager, 91	AIType2, 27
~WorldObject	~AIType2, 27
WorldObject, 96	AIType2, 27
_ENABLE_BREAKABLE_BLOCKS_	Collide, 28
GamePiece.cpp, 126	m_verticalCollisionsThisPass, 28
TT,	Update, 28
Activate	AL_ALUT_H
PowerUpItem, 88	alut.h, 147
AddAIObject	alpha
LevelObject, 69	RgbaColor, 90
AddGamePiece	alut.h
LevelObject, 69	AL_ALUT_H, 147
J	/

T)
D
NT
Έ

alut.h, 149	alut.h, 152
ALUT_LOADER_BUFFER	AudioManager, 29
alut.h, 149	\sim AudioManager, 30
ALUT_LOADER_MEMORY	AudioManager, 30
alut.h, 149	HoldALSource, 30
ALUT_WAVEFORM_IMPULSE	Instance, 30
alut.h, 149	ListenerOri, 31
ALUT_WAVEFORM_SAWTOOTH	ListenerPos, 31
alut.h, 150	ListenerVel, 31
ALUT_WAVEFORM_SINE	LoadSound, 30
alut.h, 150	m_CheckpointBuff, 32
ALUT_WAVEFORM_SQUARE	m_CheckpointSrc, 32
alut.h, 150	m_CoinBuff, 32
ALUT_WAVEFORM_WHITENOISE	m_CoinSrc, 32
alut.h, 150	m_HitBrickBuff, 32
alutCreateBufferFromFile	m_HitBrickSrc, 32
alut.h, 152	m_instance, 32
alutCreateBufferFromFileImage	m PowerupBuff, 32
alut.h, 152	m_PowerupSrc, 32
alutCreateBufferHelloWorld	m_Song1Buff, 32
alut.h, 152	_ & .
alutCreateBufferWaveform	m_Song1Src, 32
	m_Song2Buff, 33
alut.h, 152	m_Song2Src, 33
alutExit	m_Song3Buff, 33
alut.h, 152	m_Song3Src, 33
alutGetError	operator=, 31
alut.h, 152	PlayALSource, 31
alutGetErrorString	SetListenerValues, 31
alut.h, 152	SourcePos, 33
alutGetMajorVersion	SourceVel, 33
alut.h, 152	StopALSource, 31
alutGetMIMETypes	AudioManager.h
alut.h, 152	SL_CHCKPT, 108
alutGetMinorVersion	SL_COINS, 109
alut.h, 152	SL_HITBRICK, 109
alutInit	SL_PWRUP, 108
alut.h, 152	SL_SONG1, 108
alutInitWithoutContext	SL_SONG2, 108
alut.h, 152	SL_SONG3, 108
alutLoadMemoryFromFile	SL_SONG4, 108
alut.h, 152	SoundLookup, 108
alutLoadMemoryFromFileImage	
alut.h, 152	BackGroundManager, 34
alutLoadMemoryHelloWorld	~BackGroundManager, 34
alut.h, 152	BackGroundManager, 34
alutLoadMemoryWaveform	Draw, 35
alut.h, 152	m_background, 35
alutLoadWAVFile	m_cameraPercent, 35
alut.h, 152	m_screenHeight, 35
alutLoadWAVMemory	m_screenWidth, 35
alut.h, 152	blue
alutSleep	RgbaColor, 90
alut.h, 152	bottom
alutUnloadWAV	Square, 94
	1 - 7 -

hranahas/GamaPasa/UtilEunations h 164
branches/GameBase/UtilFunctions.h, 164
branches/GameBase/WindowProc.cpp, 165
branches/GameBase/WorldObject.cpp, 166
branches/GameBase/WorldObject.h, 167
BuildHUDFont
GameBase, 42
CheckCollision
AIType1, 25
CollisionObject, 36
GamePiece, 52
LevelEndObject, 67
PowerObject, 83
PowerUpItem, 88
CLASS_NAME
GlApplication.cpp, 129
Click
Menu, 76
CLIP_DISTANCE
LevelObject.cpp, 139
CO_CROUCH
ControlObject.h, 114
CO_JUMP
ControlObject.h, 114
CO_LEFT
ControlObject.h, 114
CO_MAX_CONTROL
ControlObject.h, 114
CO_PAUSE
ControlObject.h, 114 CO_RIGHT
ControlObject.h, 114
CO_USE_SPECIAL
ControlObject.h, 114
Collide
AIType1, 25
AIType2, 28
CollisionObject, 36
GameDude, 46
GamePiece, 52
PowerObject, 83
PowerUpBlock, 86
PowerUpItem, 88
CollisionObject, 36
CheckCollision, 36
Collide, 36
CollisionSideEnum
GameEnums.h, 121
ContainPoint
MenuItem, 79
ControlObject, 38
~ControlObject, 38
ControlObject, 38
GetControlKey, 38

LoadControls, 39	PowerObject, 83
m_controlKeys, 39	WorldObject, 97
SetControlKey, 39	
StringToKey, 39	EnableFullScreen
ControlObject.h	GlWindow, 61
CO_CROUCH, 114	
CO_JUMP, 114	FALL_SPEED
CO_LEFT, 114	AIType1.cpp, 103
CO_MAX_CONTROL, 114	FIRE_DELAY
CO_PAUSE, 114	GameBase.cpp, 117
CO_RIGHT, 114	FireSpecialPower
CO_USE_SPECIAL, 114	LevelObject, 69
Controls, 114	WorldObject, 97
Controls	
ControlObject.h, 114	GameBase, 41
Converter, 11	\sim GameBase, 42
IntToString, 11	BuildHUDFont, 42
StringToDouble, 12	Draw, 42
StringToInt, 12	GameBase, 42
StringToUInt, 12	KeyPressed, 42
StringToWString, 12	KeyReleased, 42
UIntToString, 13	KillHudFont, 42
WStringToString, 13	LeftMouseClick, 43
Converter::ConverterException, 40	m_controls, 43
ConverterException, 40	m_currentGameState, 43
m_msg, 40	m_currentWorld, 44
what, 40	m_delayTimer, 44
ConverterException	m_gameDude, 44
Converter::ConverterException, 40	m_hudTextBase, 44
CreateGlWindow	m_hudTextGmf, 44
	m_menu, 44
GlWindow, 61	m_worldList, 44
CS_BOTTOM	PerformInit, 43
GameEnums.h, 121	PerformUpdate, 43
CS_LEFT	PlayGame, 43
GameEnums.h, 121	GameBase.cpp
CS_RIGHT	FIRE_DELAY, 117
GameEnums.h, 121	GameDude, 45
CS_TOP	~GameDude, 46
GameEnums.h, 121	Collide, 46
DestroyStringTokens	Draw, 46
UtilFunctions, 18	GameDude, 46
Draw	GetDudeStatus, 46 GetFacing, 47
AIObject, 22	<u> </u>
BackGroundManager, 35	GetHorizontalStatus, 47
GameBase, 42	GetOffset, 47
GameDude, 46	GetVerticalStatus, 47
GamePiece, 52	m_crouching, 49
GIApplication, 55	m_gameDudeStatus, 49
GlFrameworkObject, 59	m_gameFloor, 49
LevelEndObject, 67	m_hStatus, 49
LevelObject, 69	m_invincible, 49
Menu, 76	m_jumpHeight, 49
MenuItem, 79	m_lastDirection, 50

m_startingPos, 50	SO_AI_TYPE_2, 123
m_textureIds, 50	SO_LEVEL_END, 123
m_vStatus, 50	StartMenuItem, 123
m_xOffset, 50	VerticalStatus, 123
Move, 47	VS_FALLING, 123
Reset, 48	VS_JUMPING, 123
SetCrouching, 48	VS_NONE, 123
SetDudeStatus, 48	GameGridToCoords
SetHoriztonalStatus, 48	GameLoader, 14
SetLeftBound, 48	GameLoader, 14
SetVerticalStatus, 48	GameGridToCoords, 14
Update, 49	LoadLevel, 14
GameDude.cpp	RunLoader, 14
JUMP_HEIGHT, 119	GameObjects
JUMP_RATE, 119	GameEnums.h, 122
GameDudeStatus	GamePiece, 51
GameEnums.h, 121	CheckCollision, 52
GameEnums.h	Collide, 52
CollisionSideEnum, 121	Draw, 52
CS_BOTTOM, 121	GamePiece, 51
CS_LEFT, 121	GetCurrentPosition, 52
CS_RIGHT, 121	m_broken, 53
CS_TOP, 121	m_currentLocation, 53
GameDudeStatus, 121	m_textureId, 53
GameObjects, 122	OnScreen, 52
GameState, 122	SetPosition, 53
GDS_BIG, 122	GamePiece.cpp
GDS_DEAD, 122	_ENABLE_BREAKABLE_BLOCKS_, 126
GDS_SMALL, 122	GameState
GDS_SPECIAL, 122	GameEnums.h, 122
GO_AI_TYPE1, 122	GameStructs.h
GO_AI_TYPE2, 122	
GO_BRICK_BLOCK, 122	SQUARE_SIZE, 128 GDS_BIG
GO LEVEL END, 122	GameEnums.h, 122
GO_LEVEL_END, 122 GO PIPE, 122	GDS_DEAD
GO_SPECIAL_BLOCK, 122	GameEnums.h, 122
GS_GAME_CREDITS, 122	GDS_SMALL
GS_GAME_PLAYING, 122 GS_OPTIONS_MENU, 122	GameEnums.h, 122
· · · · · · · · · · · · · · · · · ·	GDS_SPECIAL
GS_PAUSE_MENU, 122	GameEnums.h, 122
GS_PLAYER_DEAD, 122	GetActiveStatus
GS_QUITING, 122	AIObject, 22
GS_STARTING_MENU, 122	GetControlKey
HoriztonalStatus, 122	ControlObject, 38
HS_LEFT, 123	GetCurrentPosition
HS_NONE, 123	
****	GamePiece, 52
HS_RIGHT, 123	GamePiece, 52 GetCurrentScore
ScoreObject, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92
ScoreObject, 123 SMI_INVALID, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92 GetDudeStatus
ScoreObject, 123 SMI_INVALID, 123 SMI_LOAD_GAME, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92 GetDudeStatus GameDude, 46
ScoreObject, 123 SMI_INVALID, 123 SMI_LOAD_GAME, 123 SMI_NEW_GAME, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92 GetDudeStatus GameDude, 46 GetFacing
ScoreObject, 123 SMI_INVALID, 123 SMI_LOAD_GAME, 123 SMI_NEW_GAME, 123 SMI_OPTIONS, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92 GetDudeStatus GameDude, 46 GetFacing GameDude, 47
ScoreObject, 123 SMI_INVALID, 123 SMI_LOAD_GAME, 123 SMI_NEW_GAME, 123 SMI_OPTIONS, 123 SMI_QUIT, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92 GetDudeStatus GameDude, 46 GetFacing GameDude, 47 GetHorizontalStatus
ScoreObject, 123 SMI_INVALID, 123 SMI_LOAD_GAME, 123 SMI_NEW_GAME, 123 SMI_OPTIONS, 123	GamePiece, 52 GetCurrentScore ScoreManager, 92 GetDudeStatus GameDude, 46 GetFacing GameDude, 47

GetId	GetWindowWidth, 61
MenuItem, 79	GlWindow, 60
GetImageFolder	KillWindow, 62
LevelObject, 70	m_hDc, 63
GetOffset	m_hRc, 63
GameDude, 47	m_hWnd, 63
GetPointAtCursor	m_isFullScreen, 63
GlApplication, 55	m_windowHeight, 63
GetPressed	m_windowWidth, 63
KeyHandler, 64	operator HDC, 62
GetSelectedItemId	operator HWND, 62
Menu, 76	ResizeGlScene, 62
GetTimerString	SwapBuffers, 62
LevelObject, 70	GO_AI_TYPE1
WorldObject, 97	GameEnums.h, 122
GetVerticalStatus	GO_AI_TYPE2
GameDude, 47	GameEnums.h, 122
GetWindowHeight	GO_BRICK_BLOCK
GlWindow, 61	GameEnums.h, 122
GetWindowWidth	GO_LEVEL_END
GlWindow, 61	GameEnums.h, 122
GlApplication, 54	GO PIPE
~GlApplication, 55	GameEnums.h, 122
Draw, 55	GO_SPECIAL_BLOCK
GetPointAtCursor, 55	GameEnums.h, 122
GlApplication, 55	
hInstance, 58	GraphicLoaders, 16 LoadNewBitmap, 16
innistance, Jo	
	-
Init, 55	LoadTga, 16
Init, 55 KeyPressed, 55	LoadTga, 16 TextureIdentifier, 16
Init, 55 KeyPressed, 55 KeyReleased, 56	LoadTga, 16 TextureIdentifier, 16 green
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59 Draw, 59	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 HandleKey Menu, 76
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59 Draw, 59 Update, 59	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 HandleKey Menu, 76 hInstance
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59 Draw, 59 Update, 59 GlWindow, 60	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 HandleKey Menu, 76 hInstance GlApplication, 58
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59 Draw, 59 Update, 59 GlWindow, 60 ~GlWindow, 60	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 128 GS_STARTING_MENU GameEnums.h, 129 HandleKey Menu, 76 hInstance GlApplication, 58 HoldALSource
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59 Draw, 59 Update, 59 GlWindow, 60 ~GlWindow, 60 CreateGlWindow, 61	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 HandleKey Menu, 76 hInstance GlApplication, 58 HoldALSource AudioManager, 30
Init, 55 KeyPressed, 55 KeyReleased, 56 LeftMouseClick, 56 m_applicationRunning, 58 m_isActive, 58 m_keys, 58 m_lastTickCount, 58 m_objectList, 58 m_window, 58 Main, 56 MessageHandler, 56 PerformInit, 57 PerformUpdate, 57 RightMouseClick, 57 Update, 57 GlApplication.cpp CLASS_NAME, 129 WindowProc, 129 GlFrameworkObject, 59 Draw, 59 Update, 59 GlWindow, 60 ~GlWindow, 60	LoadTga, 16 TextureIdentifier, 16 green RgbaColor, 90 GS_GAME_CREDITS GameEnums.h, 122 GS_GAME_PLAYING GameEnums.h, 122 GS_OPTIONS_MENU GameEnums.h, 122 GS_PAUSE_MENU GameEnums.h, 122 GS_PLAYER_DEAD GameEnums.h, 122 GS_QUITING GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 122 GS_STARTING_MENU GameEnums.h, 128 GS_STARTING_MENU GameEnums.h, 129 HandleKey Menu, 76 hInstance GlApplication, 58 HoldALSource

HS_LEFT	LevelDone
GameEnums.h, 123	LevelEndObject, 67
HS_NONE	LevelEndObject, 66
GameEnums.h, 123	~LevelEndObject, 66
HS_RIGHT	CheckCollision, 67
GameEnums.h, 123	Draw, 67
	LevelDone, 67
Init	LevelEndObject, 66
GlApplication, 55	m_levelDone, 67
Instance	LevelObject, 68
AudioManager, 30	~LevelObject, 69
ScoreManager, 92	AddAIObject, 69
IntToString	AddGamePiece, 69
Converter, 11	Draw, 69
INVALID_ID	FireSpecialPower, 69
Menu.cpp, 142	GetImageFolder, 70
IsDead	GetTimerString, 70
PowerObject, 83	LevelObject, 69
1 3 11 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Load, 70
JUMP_HEIGHT	m activeAIList, 72
GameDude.cpp, 119	m_backGroundManager, 72
JUMP_RATE	m_imageFolder, 72
GameDude.cpp, 119	m_levelEndObject, 72
Сапериссерр, 117	m levelFileName, 72
KeyHandler, 64	m_levelName, 72
GetPressed, 64	
KeyHandler, 64	m_levelObjects, 73
· · · · · · · · · · · · · · · · · · ·	m_maxXOffset, 73
m_keys, 65	m_passiveAIList, 73
Reset, 64	m_powerList, 73
SetPressed, 64	m_screenEndIter, 73
SetReleased, 65	m_screenStartIter, 73
KeyHandler.h	m_screenWidth, 73
MAX_KEYS, 136	m_specialTextureIds, 73
KeyPressed	m_timer, 73
GameBase, 42	m_xOffset, 74
GlApplication, 55	Move, 70
KeyReleased	Reload, 70
GameBase, 42	SetImageFolder, 71
GlApplication, 56	SetLevelEndObject, 71
KillHudFont	SetLevelFileName, 71
GameBase, 42	SetSpecialImages, 71
KillWindow	Start, 71
GlWindow, 62	Update, 72
	LevelObject.cpp
LEFT	CLIP_DISTANCE, 139
AIType1.cpp, 103	LEFT_MOVE_DISTANCE, 139
PowerObject.cpp, 154	RIGHT_MOVE_DISTANCE, 139
left	ListenerOri
Square, 94	AudioManager, 31
LEFT_MOVE_DISTANCE	ListenerPos
LevelObject.cpp, 139	AudioManager, 31
LeftMouseClick	ListenerVel
GameBase, 43	AudioManager, 31
GlApplication, 56	Load
on application, 50	Loud

LevelObject, 70	GameBase, 44
LoadControls	m_direction
ControlObject, 39	AIType1, 26
LoadLevel	PowerObject, 84
GameLoader, 14	m_gameDude
	•
LoadNewBitmap	GameBase, 44
GraphicLoaders, 16	WorldObject, 99
LoadSound	m_gameDudeStatus
AudioManager, 30	GameDude, 49
LoadTga	m_gameFloor
GraphicLoaders, 16	AIObject, 23
m cativa	GameDude, 49
m_active	m_hDc
AIObject, 23	GlWindow, 63
PowerObject, 84	m_HitBrickBuff
m_activeAIList	AudioManager, 32
LevelObject, 72	m_HitBrickSrc
m_applicationRunning	AudioManager, 32
GlApplication, 58	m_hRc
m_background	GlWindow, 63
BackGroundManager, 35	m_hStatus
m_backGroundManager	GameDude, 49
LevelObject, 72	m_hudTextBase
m_blockUsed	GameBase, 44
PowerUpBlock, 86	m_hudTextGmf
m_broken	GameBase, 44
GamePiece, 53	m_hWnd
m_cameraPercent	GlWindow, 63
BackGroundManager, 35	m_imageFolder
m_CheckpointBuff	LevelObject, 72
AudioManager, 32	m instance
m_CheckpointSrc	AudioManager, 32
AudioManager, 32	ScoreManager, 93
m_clickedId	m_invincible
Menu, 77	GameDude, 49
m_CoinBuff	m isActive
AudioManager, 32	GlApplication, 58
m_CoinSrc	m_isFullScreen
AudioManager, 32	GlWindow, 63
m_controlKeys	m item
ControlObject, 39	PowerUpBlock, 86
m controls	m items
GameBase, 43	Menu, 77
m_crouching	m_jumpHeight
GameDude, 49	GameDude, 49
m_currentGameState	PowerUpItem, 89
GameBase, 43	m_keys
m_currentLevel	GlApplication, 58
WorldObject, 99	KeyHandler, 65
m_currentLocation	m_killed
GamePiece, 53	AIObject, 23
m_currentWorld	m_lastDirection
GameBase, 44	GameDude, 50
m_delayTimer	m_lastTickCount

GlApplication, 58	m_Song2Buff
m_levelDone	AudioManager, 33
LevelEndObject, 67	m_Song2Src
m_levelEndObject	AudioManager, 33
LevelObject, 72	m_Song3Buff
m_levelFileName	AudioManager, 33
LevelObject, 72	m_Song3Src
m_levelList	AudioManager, 33
WorldObject, 99	m_specialTextureIds
m_levelName	LevelObject, 73
LevelObject, 72	m_startingPos
m_levelObjects	GameDude, 50
LevelObject, 73	m_text
m_levelScore	MenuItem, 80
ScoreManager, 93	m_textBase
m_maxXOffset	Menu, 77
LevelObject, 73	MenuItem, 80
m menu	m textureId
GameBase, 44	GamePiece, 53
m_menuId	m_textureIds
MenuItem, 79	AIType1, 26
m_msg	GameDude, 50
Converter::ConverterException, 40	PowerUpBlock, 86
m_objectList	m_timer
GlApplication, 58	LevelObject, 73
m_passiveAIList	m_triggered
LevelObject, 73	PowerUpItem, 89
m_position	m_verticalCollisionsThisPass
MenuItem, 79	AIType2, 28
m_powerList	m_vStatus
LevelObject, 73	AIObject, 23
m_PowerupBuff	GameDude, 50
AudioManager, 32	m_window
m_PowerupSrc	GlApplication, 58
÷	m_windowHeight
AudioManager, 32	GlWindow, 63
m_score	
ScoreManager, 93	m_windowWidth
m_screenEndIter	GlWindow, 63
LevelObject, 73	m_worldList
m_screenHeight	GameBase, 44
BackGroundManager, 35	m_worldName
m_screenStartIter	WorldObject, 99
LevelObject, 73	m_xOffset
m_screenWidth	GameDude, 50
BackGroundManager, 35	LevelObject, 74
LevelObject, 73	
m salastad	Main
m_selected	Main GlApplication, 56
MenuItem, 79	GlApplication, 56 main.cpp
MenuItem, 79 m_selectedItem	GlApplication, 56 main.cpp WinMain, 141
MenuItem, 79 m_selectedItem Menu, 77	GlApplication, 56 main.cpp WinMain, 141 MAX_KEYS
MenuItem, 79 m_selectedItem Menu, 77 m_Song1Buff	GlApplication, 56 main.cpp WinMain, 141 MAX_KEYS KeyHandler.h, 136
MenuItem, 79 m_selectedItem Menu, 77 m_Song1Buff AudioManager, 32	GlApplication, 56 main.cpp WinMain, 141 MAX_KEYS
MenuItem, 79 m_selectedItem Menu, 77 m_Song1Buff	GlApplication, 56 main.cpp WinMain, 141 MAX_KEYS KeyHandler.h, 136 Menu, 75 ~Menu, 75
MenuItem, 79 m_selectedItem Menu, 77 m_Song1Buff AudioManager, 32	GlApplication, 56 main.cpp WinMain, 141 MAX_KEYS KeyHandler.h, 136 Menu, 75

Click, 76	GameBase, 43
Draw, 76	GlApplication, 57
GetSelectedItemId, 76	PlayALSource
HandleKey, 76	AudioManager, 31
m_clickedId, 77	PlayGame
m_items, 77	GameBase, 43
m_selectedItem, 77	Point, 81
m_textBase, 77	Point, 81
Menu, 75	x, 81
Update, 77	y, 81
Menu.cpp	z, 81
INVALID_ID, 142	PowerObject, 82
MenuItem, 78	~PowerObject, 82
∼MenuItem, 78	CheckCollision, 83
ContainPoint, 79	Collide, 83
Draw, 79	Draw, 83
GetId, 79	IsDead, 83
m_menuId, 79	m_active, 84
m_position, 79	m_direction, 84
m_selected, 79	PowerObject, 82
m_text, 80	Update, 83
m_textBase, 80	PowerObject.cpp
MenuItem, 78	LEFT, 154
SetSelectStatus, 79	MOVE_SPEED, 154
MessageHandler	RIGHT, 154
GlApplication, 56	PowerUpBlock, 85
Move	~PowerUpBlock, 85
GameDude, 47	Collide, 86
LevelObject, 70	m_blockUsed, 86
WorldObject, 97	m_item, 86
MOVE_DISTANCE	m_textureIds, 86
AIType1.cpp, 103	PowerUpBlock, 85
MOVE_RATE	PowerUpItem, 87
PowerUpItem.cpp, 158	~PowerUpItem, 88
MOVE_SPEED	Activate, 88
PowerObject.cpp, 154	CheckCollision, 88
-	Collide, 88
NewLevel	m_jumpHeight, 89
ScoreManager, 92	m_triggered, 89
	PowerUpItem, 87
OnScreen	SetVerticalStatus, 88
GamePiece, 52	Trigger, 89
operator HDC	Update, 89
GlWindow, 62	PowerUpItem.cpp
operator HWND	MOVE_RATE, 158
GlWindow, 62	VERTICAL_RATE, 158
operator=	
AudioManager, 31	red
ScoreManager, 92	RgbaColor, 90
	Reload
PerformInit	LevelObject, 70
GameBase, 43	Reset
GlApplication, 57	GameDude, 48
PerformUpdate	KeyHandler, 64

9. 14. 09.	
ScoreManager, 92	LevelObject, 71
ResetLevel	SetListenerValues
ScoreManager, 93	AudioManager, 31
ResizeGlScene	SetPosition
GlWindow, 62	GamePiece, 53
RestartCurrentLevel	SetPressed
WorldObject, 98	KeyHandler, 64
RgbaColor, 90	SetReleased
alpha, 90	KeyHandler, 65
blue, 90	SetSelectStatus
green, 90	MenuItem, 79
red, 90	SetSpecialImages
RIGHT	LevelObject, 71
AIType1.cpp, 103	SetVerticalStatus
PowerObject.cpp, 154	AIObject, 22
right	GameDude, 48
Square, 94	PowerUpItem, 88
RIGHT_MOVE_DISTANCE	SetWorldName
LevelObject.cpp, 139	WorldObject, 98
RightMouseClick	SL_CHCKPT
GlApplication, 57	AudioManager.h, 108
RunLoader	SL_COINS
GameLoader, 14	AudioManager.h, 109
· · · · · · · · · · · · · · · · · · ·	SL_HITBRICK
ScoreManager, 91	AudioManager.h, 109
~ScoreManager, 91	SL_PWRUP
AddToScore, 92	AudioManager.h, 108
GetCurrentScore, 92	SL_SONG1
Instance, 92	AudioManager.h, 108
m_instance, 93	SL_SONG2
m_levelScore, 93	AudioManager.h, 108
m_score, 93	SL_SONG3
NewLevel, 92	AudioManager.h, 108
operator=, 92	SL_SONG4
Reset, 92	AudioManager.h, 108
ResetLevel, 93	SMI_INVALID
ScoreManager, 91, 92	GameEnums.h, 123
ScoreObject	SMI_LOAD_GAME
GameEnums.h, 123	GameEnums.h, 123
SetControlKey	SMI_NEW_GAME
ControlObject, 39	GameEnums.h, 123
SetCrouching	SMI_OPTIONS
GameDude, 48	GameEnums.h, 123
SetDudeStatus	SMI_QUIT
GameDude, 48 SetHoriztonalStatus	GameEnums.h, 123
	SO_AI_TYPE_1
GameDude, 48	GameEnums.h, 123
SetImageFolder	SO_AI_TYPE_2
LevelObject, 71	GameEnums.h, 123
SetLeftBound	SO_LEVEL_END
GameDude, 48	GameEnums.h, 123
SetLevelEndObject	SoundLookup
LevelObject, 71	AudioManager.h, 108
SetLevelFileName	SourcePos

AudioManager, 33	UIntToString
SourceVel	Converter, 13
AudioManager, 33	Update
Square, 94	AIObject, 23
bottom, 94	AIType1, 26
left, 94	AIType2, 28
right, 94	GameDude, 49
Square, 94	GlApplication, 57
top, 94	GlFrameworkObject, 59
SQUARE_SIZE	LevelObject, 72
GameStructs.h, 128	Menu, 77
Start	PowerObject, 83
LevelObject, 71	PowerUpItem, 89
WorldObject, 98	WorldObject, 98
StartMenuItem	UtilFunctions, 18
GameEnums.h, 123	DestroyStringTokens, 18
StopALSource	StringTokenizer, 18
AudioManager, 31	StringTokenizer2, 19
StringToDouble	StringTokens, 18
Converter, 12	StringTokensType, 18
StringToInt	TrimWhiteSpace, 19
Converter, 12	
StringTokenizer	VERTICAL_RATE
UtilFunctions, 18	PowerUpItem.cpp, 158
StringTokenizer2	VerticalStatus
UtilFunctions, 19	GameEnums.h, 123
StringTokens	VS_FALLING
UtilFunctions, 18	GameEnums.h, 123
StringTokensType	VS_JUMPING
UtilFunctions, 18	GameEnums.h, 123
StringToKey	VS_NONE
ControlObject, 39	GameEnums.h, 123
StringToUInt	
Converter, 12	what
StringToWString	Converter::ConverterException, 40
Converter, 12	WindowProc
SwapBuffers	GlApplication.cpp, 129
GlWindow, 62	WindowProc.cpp, 165
SwitchDirections	WindowProc.cpp
AIType1, 25	WindowProc, 165
Arryper, 23	WinMain
T . II	main.cpp, 141
TextureIdentifier	WorldDone
GraphicLoaders, 16	WorldObject, 98
top	WorldObject, 96
Square, 94	~WorldObject, 96
Trigger	AddLevel, 97
AIObject, 22	Draw, 97
AIType1, 26	FireSpecialPower, 97
PowerUpItem, 89	GetTimerString, 97
TRIGGER_DISTANCE	m_currentLevel, 99
AIType1.cpp, 103	m_gameDude, 99
TrimWhiteSpace	m_levelList, 99
UtilFunctions, 19	m_worldName, 99

```
Move, 97
RestartCurrentLevel, 98
SetWorldName, 98
Start, 98
Update, 98
WorldDone, 98
WorldObject, 96
WStringToString
Converter, 13

X
Point, 81

y
Point, 81
```