SFML

* [Main Page](http://docs.google.com/index.htm)
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* [include](http://docs.google.com/dir_f3190241575fd2bd132a392ae6942f4a.htm)
* [SFML](http://docs.google.com/dir_692f376662c82a26cfe4cfa3aceebe24.htm)
* [Window](http://docs.google.com/dir_91aff02cfffdbbdd31d48df547831556.htm)

Event.hpp

1

2 //

3 // SFML - Simple and Fast Multimedia Library

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5 //

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22 //

24

25 #ifndef SFML\_EVENT\_HPP

26 #define SFML\_EVENT\_HPP

27

29 // Headers

31 #include <SFML/Config.hpp>

32 #include <SFML/Window/Joystick.hpp>

33 #include <SFML/Window/Keyboard.hpp>

34 #include <SFML/Window/Mouse.hpp>

35

36

37 namespace sf

38 {

[43](http://docs.google.com/classsf_1_1Event.htm) class [Event](http://docs.google.com/classsf_1_1Event.htm)

44 {

45 public :

46

[51](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm)  struct [SizeEvent](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm)

52  {

[53](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm#a20ea1b78c9bb1604432f8f0067bbfd94)  unsigned int [width](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm#a20ea1b78c9bb1604432f8f0067bbfd94);

[54](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm#af0f76a599d5f48189cb8d78d4e5facdb)  unsigned int [height](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm#af0f76a599d5f48189cb8d78d4e5facdb);

55  };

56

[61](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm)  struct [KeyEvent](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm)

62  {

[63](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a2879fdab8a68cb1c6ecc45730a2d0e61)  [Keyboard::Key](http://docs.google.com/classsf_1_1Keyboard.htm#acb4cacd7cc5802dec45724cf3314a142) [code](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a2879fdab8a68cb1c6ecc45730a2d0e61);

[64](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a915a483317de67d995188a855701fbd7)  bool [alt](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a915a483317de67d995188a855701fbd7);

[65](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a9255861c2f88501d80ad6b44a310b62f)  bool [control](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a9255861c2f88501d80ad6b44a310b62f);

[66](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a776af1a3ca79abeeec18ebf1c0065aa9)  bool [shift](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#a776af1a3ca79abeeec18ebf1c0065aa9);

[67](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#ac0557f7edc2a608ec65175fdd843afc5)  bool [system](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm#ac0557f7edc2a608ec65175fdd843afc5);

68  };

69

[74](http://docs.google.com/structsf_1_1Event_1_1TextEvent.htm)  struct [TextEvent](http://docs.google.com/structsf_1_1Event_1_1TextEvent.htm)

75  {

[76](http://docs.google.com/structsf_1_1Event_1_1TextEvent.htm#a00d96b1a5328a1d7cbc276e161befcb0)  Uint32 [unicode](http://docs.google.com/structsf_1_1Event_1_1TextEvent.htm#a00d96b1a5328a1d7cbc276e161befcb0);

77  };

78

[83](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm)  struct [MouseMoveEvent](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm)

84  {

[85](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm#aa3a23809afb905cbb52c66d8512e21fd)  int [x](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm#aa3a23809afb905cbb52c66d8512e21fd);

[86](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm#a86d78a2fba5b3abda16ca059f2392ad4)  int [y](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm#a86d78a2fba5b3abda16ca059f2392ad4);

87  };

88

[94](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm)  struct [MouseButtonEvent](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm)

95  {

[96](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm#a5f53725aa7b647705486eeb95f723024)  [Mouse::Button](http://docs.google.com/classsf_1_1Mouse.htm#a4fb128be433f9aafe66bc0c605daaa90) [button](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm#a5f53725aa7b647705486eeb95f723024);

[97](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm#a49b937b311729174950787781aafcdc7)  int [x](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm#a49b937b311729174950787781aafcdc7);

[98](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm#aae4735071868d4411d1782bf67619d64)  int [y](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm#aae4735071868d4411d1782bf67619d64);

99  };

100

[105](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm)  struct [MouseWheelEvent](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm)

106  {

[107](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm#a4d02b524b5530c7863e7b0f211fa522c)  int [delta](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm#a4d02b524b5530c7863e7b0f211fa522c);

[108](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm#a3079803f836ed7208f43b60332ab053e)  int [x](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm#a3079803f836ed7208f43b60332ab053e);

[109](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm#a7ea1b8d8c28e2f530c6e9e6d9a5d32d3)  int [y](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm#a7ea1b8d8c28e2f530c6e9e6d9a5d32d3);

110  };

111

[117](http://docs.google.com/structsf_1_1Event_1_1JoystickConnectEvent.htm)  struct [JoystickConnectEvent](http://docs.google.com/structsf_1_1Event_1_1JoystickConnectEvent.htm)

118  {

[119](http://docs.google.com/structsf_1_1Event_1_1JoystickConnectEvent.htm#a08e58e8559d3e4fe4654855fec79194b)  unsigned int [joystickId](http://docs.google.com/structsf_1_1Event_1_1JoystickConnectEvent.htm#a08e58e8559d3e4fe4654855fec79194b);

120  };

121

[126](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm)  struct [JoystickMoveEvent](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm)

127  {

[128](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm#a7bf2b2f2941a21ed26a67c95f5e4232f)  unsigned int [joystickId](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm#a7bf2b2f2941a21ed26a67c95f5e4232f);

[129](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm#add22e8126b7974271991dc6380cbdee3)  [Joystick::Axis](http://docs.google.com/classsf_1_1Joystick.htm#a48db337092c2e263774f94de6d50baa7) [axis](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm#add22e8126b7974271991dc6380cbdee3);

[130](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm#aba5a70815420161375fd2e756689c32a)  float [position](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm#aba5a70815420161375fd2e756689c32a);

131  };

132

[138](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm)  struct [JoystickButtonEvent](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm)

139  {

[140](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm#a2f80ecdb964a5ae0fc30726a404c41ec)  unsigned int [joystickId](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm#a2f80ecdb964a5ae0fc30726a404c41ec);

[141](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm#a6412e698a2f7904c5aa875a0d1b34da4)  unsigned int [button](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm#a6412e698a2f7904c5aa875a0d1b34da4);

142  };

143

[148](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4a)  enum [EventType](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4a)

149  {

[150](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa316e4212e083f1dce79efd8d9e9c0a95)  [Closed](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa316e4212e083f1dce79efd8d9e9c0a95),

[151](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa67fd26d7e520bc6722db3ff47ef24941)  [Resized](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa67fd26d7e520bc6722db3ff47ef24941),

[152](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aabd7877b5011a337268357c973e8347bd)  [LostFocus](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aabd7877b5011a337268357c973e8347bd),

[153](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa8c5003ced508499933d540df8a6023ec)  [GainedFocus](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa8c5003ced508499933d540df8a6023ec),

[154](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa7e09871dc984080ff528e4f7e073e874)  [TextEntered](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa7e09871dc984080ff528e4f7e073e874),

[155](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aac3c7abfaa98c73bfe6be0b57df09c71b)  [KeyPressed](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aac3c7abfaa98c73bfe6be0b57df09c71b),

[156](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aaa5bcc1e603d5a6f4c137af39558bd5d1)  [KeyReleased](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aaa5bcc1e603d5a6f4c137af39558bd5d1),

[157](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa5cc9d3941af2a36049f4f9922c934a80)  [MouseWheelMoved](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa5cc9d3941af2a36049f4f9922c934a80),

[158](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa55a3dcc8bf6c40e37f9ff2cdf606481f)  [MouseButtonPressed](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa55a3dcc8bf6c40e37f9ff2cdf606481f),

[159](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa9be69ecc07e484467ebbb133182fe5c1)  [MouseButtonReleased](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa9be69ecc07e484467ebbb133182fe5c1),

[160](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa4ff4fc3b3dc857e3617a63feb54be209)  [MouseMoved](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa4ff4fc3b3dc857e3617a63feb54be209),

[161](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa50d98590a953e74c7ccf3dabadb22067)  [MouseEntered](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa50d98590a953e74c7ccf3dabadb22067),

[162](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aaa90b8526b328e0246d04b026de17c6e7)  [MouseLeft](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aaa90b8526b328e0246d04b026de17c6e7),

[163](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa6d46855f0253f065689b69cd09437222)  [JoystickButtonPressed](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa6d46855f0253f065689b69cd09437222),

[164](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa2246ef5ee33f7fa4b2a53f042ceeac3d)  [JoystickButtonReleased](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa2246ef5ee33f7fa4b2a53f042ceeac3d),

[165](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa4d6ad228485c135967831be16ec074dd)  [JoystickMoved](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aa4d6ad228485c135967831be16ec074dd),

[166](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aaabb8877ec2f0c92904170deded09321e)  [JoystickConnected](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aaabb8877ec2f0c92904170deded09321e),

[167](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aab6e161dab7abaf154cc1c7b554558cb6)  [JoystickDisconnected](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aab6e161dab7abaf154cc1c7b554558cb6),

168

[169](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aae51749211243cab2ab270b29cdc32a70)  [Count](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4aae51749211243cab2ab270b29cdc32a70)

170  };

171

173  // Member data

[175](http://docs.google.com/classsf_1_1Event.htm#adf2f8044f713fd9d6019077b0d1ffe0a)  [EventType](http://docs.google.com/classsf_1_1Event.htm#af41fa9ed45c02449030699f671331d4a) [type](http://docs.google.com/classsf_1_1Event.htm#adf2f8044f713fd9d6019077b0d1ffe0a);

176

177  union

178  {

[179](http://docs.google.com/classsf_1_1Event.htm#a85dae56a377eeffd39183c3f6fc96cb9)  [SizeEvent](http://docs.google.com/structsf_1_1Event_1_1SizeEvent.htm) [size](http://docs.google.com/classsf_1_1Event.htm#a85dae56a377eeffd39183c3f6fc96cb9);

[180](http://docs.google.com/classsf_1_1Event.htm#a45b92fc6757ca7c193f06b302e424ab0)  [KeyEvent](http://docs.google.com/structsf_1_1Event_1_1KeyEvent.htm) [key](http://docs.google.com/classsf_1_1Event.htm#a45b92fc6757ca7c193f06b302e424ab0);

[181](http://docs.google.com/classsf_1_1Event.htm#a00c7bba6bee892791847ec22440e0a83)  [TextEvent](http://docs.google.com/structsf_1_1Event_1_1TextEvent.htm) [text](http://docs.google.com/classsf_1_1Event.htm#a00c7bba6bee892791847ec22440e0a83);

[182](http://docs.google.com/classsf_1_1Event.htm#a786620ec4315d40c7c4cf4ddf3a1881f)  [MouseMoveEvent](http://docs.google.com/structsf_1_1Event_1_1MouseMoveEvent.htm) [mouseMove](http://docs.google.com/classsf_1_1Event.htm#a786620ec4315d40c7c4cf4ddf3a1881f);

[183](http://docs.google.com/classsf_1_1Event.htm#a20886a16ab7624de070b97145bb1dcac)  [MouseButtonEvent](http://docs.google.com/structsf_1_1Event_1_1MouseButtonEvent.htm) [mouseButton](http://docs.google.com/classsf_1_1Event.htm#a20886a16ab7624de070b97145bb1dcac);

[184](http://docs.google.com/classsf_1_1Event.htm#a8758c6d7998757978fd9146099a02a1e)  [MouseWheelEvent](http://docs.google.com/structsf_1_1Event_1_1MouseWheelEvent.htm) [mouseWheel](http://docs.google.com/classsf_1_1Event.htm#a8758c6d7998757978fd9146099a02a1e);

[185](http://docs.google.com/classsf_1_1Event.htm#ac479e8351cc2024d5c1094dc33970f7f)  [JoystickMoveEvent](http://docs.google.com/structsf_1_1Event_1_1JoystickMoveEvent.htm) [joystickMove](http://docs.google.com/classsf_1_1Event.htm#ac479e8351cc2024d5c1094dc33970f7f);

[186](http://docs.google.com/classsf_1_1Event.htm#a42aad27a054c1c05bd5c3d020e1db174)  [JoystickButtonEvent](http://docs.google.com/structsf_1_1Event_1_1JoystickButtonEvent.htm) [joystickButton](http://docs.google.com/classsf_1_1Event.htm#a42aad27a054c1c05bd5c3d020e1db174);

[187](http://docs.google.com/classsf_1_1Event.htm#aa354335c9ad73362442bc54ffe81118f)  [JoystickConnectEvent](http://docs.google.com/structsf_1_1Event_1_1JoystickConnectEvent.htm) [joystickConnect](http://docs.google.com/classsf_1_1Event.htm#aa354335c9ad73362442bc54ffe81118f);

188  };

189 };

190

191 } // namespace sf

192

193

194 #endif // SFML\_EVENT\_HPP

195

196

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