

Class `java.net.SocketImpl`

```
java.lang.Object
|
+----java.net.SocketImpl
```

```
public class SocketImpl
extends Object
```

This is the Socket implementation class. It is an abstract class that must be subclassed to provide an actual implementation.

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Variable Index

o **address**

The internet address where the socket will make connection.

o **fd**

The file descriptor.

o **localport**

o **port**

The port where the socket will make connection.

Constructor Index

o **SocketImpl()**

Method Index

o **accept(SocketImpl)**

Accepts a connection.

o **bind(InetAddress, int)**

Binds the socket to the specified port on the specified host.

- o **close()**
Closes the socket.
- o **connect(String, int)**
Connects the socket to the specified port on the specified host.
- o **connect(InetAddress, int)**
Connects the socket to the specified address on the specified port.
- o **create(boolean)**
Creates a socket with a boolean that specifies whether this is a stream socket or a datagram socket.
- o **getInputStream()**
Gets an InputStream for this socket.
- o **getOutputStream()**
Gets an OutputStream for this socket.
- o **listen(int)**
Listens for connections over a specified amount of time.
- o **toString()**
Returns the address and port of this Socket as a String.

Variables

o **fd**

```
protected int fd
```

The file descriptor.

o **address**

```
protected InetAddress address
```

The internet address where the socket will make connection.

o **port**

```
protected int port
```

The port where the socket will make connection.

o **localport**

```
protected int localport
```

Constructors

o **SocketImpl**

```
public SocketImpl()
```

Methods

o create

```
protected abstract void create(boolean stream) throws IOException
```

Creates a socket with a boolean that specifies whether this is a stream socket or a datagram socket.

Parameters:

stream – a boolean indicating whether this is a stream or datagram socket

o connect

```
protected abstract void connect(String host,  
                                int port) throws IOException
```

Connects the socket to the specified port on the specified host.

Parameters:

host – the specified host of the connection

port – the port where the connection is made

o connect

```
protected abstract void connect(InetAddress address,  
                                int port) throws IOException
```

Connects the socket to the specified address on the specified port.

Parameters:

address – the specified address of the connection

port – the specified port where connection is made

o bind

```
protected abstract void bind(InetAddress host,  
                             int port) throws IOException
```

Binds the socket to the specified port on the specified host.

Parameters:

host – the host

port – the port

o listen

```
protected abstract void listen(int count) throws IOException
```

Listens for connections over a specified amount of time.

Parameters:

count – the amount of time this socket will listen for connections

o **accept**

protected abstract void accept([SocketImpl](#) s) throws [IOException](#)

Accepts a connection.

Parameters:

s – the accepted connection

o **getInputStream**

protected abstract [InputStream](#) getInputStream() throws [IOException](#)

Gets an [InputStream](#) for this socket.

o **getOutputStream**

protected abstract [OutputStream](#) getOutputStream() throws [IOException](#)

Gets an [OutputStream](#) for this socket.

o **close**

protected abstract void close() throws [IOException](#)

Closes the socket.

o **toString**

public [String](#) toString()

Returns the address and port of this [Socket](#) as a [String](#).

Overrides:

[toString](#) in class [Object](#)