

# Class `java.net.SocketImpl`

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

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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.

**Version:**

1.12, 10/18/95

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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](#)