



Accelerating Information Technology Innovation

<http://aiti.mit.edu>

India Summer 2012
Review Session – Accessing the Web



Accessing the Web

Accessing the Web

Open an `HttpURLConnection` to
<`http://pipian.com/ip.php`>

Accessing the Web

To connect via a proxy:

```
public class MyProgram {  
    public static void main(String[] args) {  
        URL url = new URL("http://pipian.com/ip.php");  
        HttpURLConnection c =  
            (HttpURLConnection) ip.openConnection();  
    }  
}
```

Accessing the Web

To connect via a proxy:

```
public class MyProgram {
    public static void main(String[] args) {
        URL url = new URL("http://pipian.com/ip.php");
        Proxy p = new Proxy(
            Proxy.Type.SOCKS,
            new InetSocketAddress("proxy.example.com",
                                80)); // port
        // OR Proxy.Type.DIRECT if no proxy...
        // OR Proxy.Type.HTTP if an HTTP proxy...
        HttpURLConnection c =
            (HttpURLConnection) ip.openConnection(p);
    }
}
```

See also: <http://stackoverflow.com/questions/1626549/>

Accessing the Web

To connect via a proxy on Android, see

<http://www.android-proxy.com/2011/11/may-force-be-with-you-use.html>

Accessing the Web

*Read in characters from the connection.
Write them to a `StringBuffer`.*

Close the connection.

Accessing the Web

```
public class MyProgram {
    public static void main(String[] args) {
        // Previous code, and then...
        InputStream is = c.getInputStream();
        BufferedReader r = new BufferedReader(
            new InputStreamReader(is));
        StringBuffer sb = new StringBuffer();
        String s;
        while ((s = r.readLine()) != null) {
            sb.append(s);
        }
        c.disconnect();
    }
}
```


Accessing the Web

Convert the `StringBuffer` to a `String` and print it.

Accessing the Web

```
public class MyProgram {  
    public static void main(String[] args) {  
        // Previous code, and then...  
        System.out.println(sb.toString());  
    }  
}
```