1. **8-bit byte stream**
   * **InputStream and OutputStream**
   * **这类流以字节为处理单位。**

**继承InputStream**

* + **FileInputStream**
  + **StringBufferInputStream**
  + **ByteArrayInputStream**
  + **System.in**

**继承OutputStream**

* + **ByteArrayOutputStream**
  + **FileOutputStream**

1. **类FilterInputStream和FilterOutputStream加工inputStream和OutputStream以提供更多的功能(操作)。类FilterOutputStream 和 OutputStream的关系：(1)继承关系： FilterOutputStream继承outputStream (2)关联关系： FilterOutputStream维护一个私有的关联属性：-outputStream；**

**继承FilterInputStream的类**

* + **BufferedInputStream**
  + **DataInputStream**

**继承FilterOutputStream的类**

* + **BufferedOutputStream**
  + **DataOutputStream**
  + **PrintStream**

1. **16-bit Unicode stream**
   * **Reader and Writer**
   * **这类流以16位的Unicode编码表示的字符为处理单位。**

**继承Reader类：**

* + **FileReader (对比：FileInputStream)**
  + **StringReader(对比：StringBufferInputStream)**
  + **CharArrayReader（对比：ByteArrayInputStream）**

**继承Writer类：**

* + **FileWriter(对比：FileOutputStream)**
  + **StringWriter (对比： no corresponding class)**
  + **CharArrayWriter(对比： ByteArrayOutputStream)**

1. **字符流的过滤流**

