## Type Conversion

### Python arguments to Java arguments

|  |  |  |
| --- | --- | --- |
| Java parameter type | Python arg type | Java arg |
| java.lang.Object | JObject | jobject |
|  | int | new java.lang.Integer |
|  | float | new java.lang.Double |
|  | str | new java.lang.String |
|  | dict | new java.util.HashMap |
|  | list | new java.util.List |
|  | seq | new java.lang.Object[] |
|  |  |  |
| java.lang.String | JObject | (String) jobject |
|  | str | new java.lang.String |
|  |  |  |
| java.lang.Map | JObject | (Map) jobject |
|  | dict | new java.util.HashMap |
|  |  |  |
| java.lang.Object[] | JObject | (Object[]) jobject |
|  | list | new Object[] |
|  | seq | new Object[] |
|  |  |  |
|  |  |  |

### Java return value to Python return value

|  |  |
| --- | --- |
| Java return type | Python return type |
| java.lang.Object | JObject(res) |
| java.lang.String | str |
| java.lang.Object[] | list of converted python types |
| java.lang.String[] | list of str |
| <T> | Jobject(res, &T) |