

# TinyLine SVG Evaluation for Java

## Version 2.4

TinyLine SVG is a software development kit for Java applications that want to use images in the SVG Tiny format for various purposes on Java platform.

### 1. Content

After downloading the `tinylinergreen24.zip` file, unzip it into some place on your hard disk. As a result you will have the following structure of the `tinylinetry24` directory:

<code>docs</code>	TinyLine SVG API specification
<code>tinylinetry</code>	TinyLine SVG files for J2ME CLDC/MIDP2.0
<code>tinylinetry_and</code>	TinyLine SVG files for Android
<code>tinylinetry_gae</code>	TinyLine files for Google App Engine
<code>tinylinetry_pp</code>	TinyLine SVG files for CDC/Personal Profile and J2SE
<code>THIRDPARTY_LICENSES.TXT</code>	Third parties Licenses
<code>TINYLINE_DEVELOPER_LICENSE.TXT</code>	TinyLine License Agreement
<code>tinylinetry_gae.pdf</code>	TinyLine for Google App Engine Guide
<code>tinylinetry_guide.pdf</code>	TinyLine SVG Programming Guide
<code>tinylinetry_readme.pdf</code>	This file you are currently reading

### 2. TinyLine SVG for CLDC/MIDP2.0

The `tinylinetry` subdirectory has the following content:

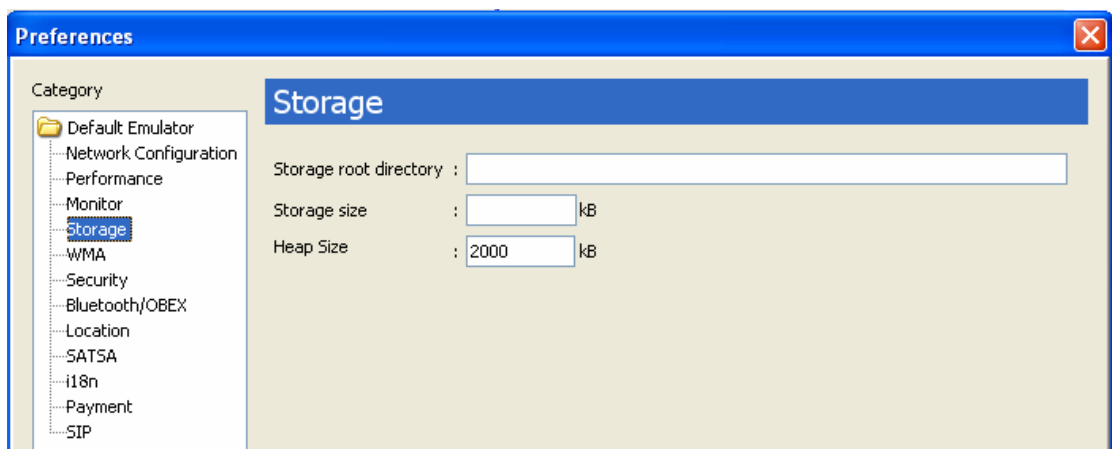
<code>bin</code>	This directory contains the TinyLine SVG CLDC/MIDP 2.0 files: <code>tinylinetry.jad</code> , <code>tinylinetry.jar</code> ,
<code>lib</code>	This directory contains core classes ( <code>tinylinetry.jar</code> ) of the TinyLine SVG for CLDC 1.0. DO NOT UNZIP THIS FILE! It must remain zipped for the compiler and interpreter to access the class files within it properly. This file contains all of the the compiled <code>.class</code> files for the TinyLine SVG.
<code>res</code>	This directory contains a examples image files
<code>src</code>	This directory contains sources of the TinyLine SVG MIDP 2.0

examples.

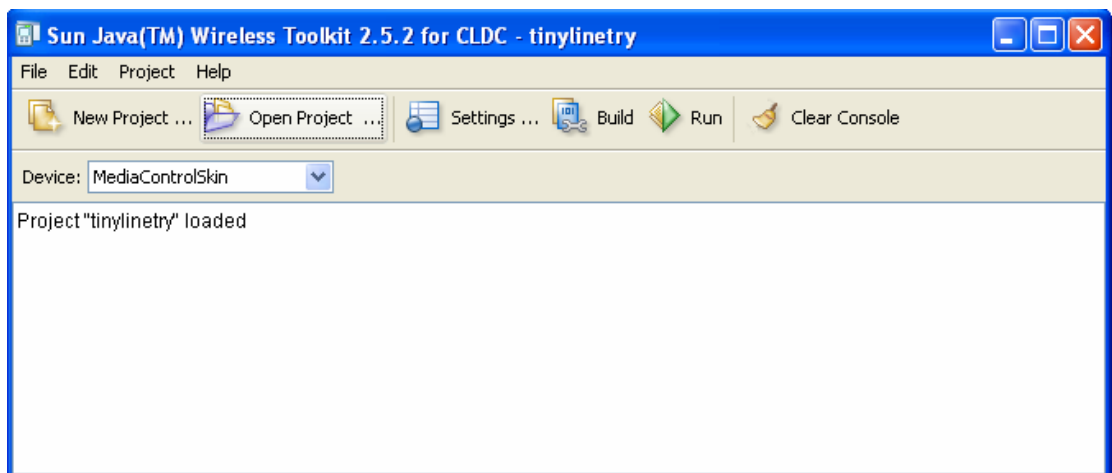
`tmplib` This directory contains PREVERIFIED core classes (`tinyline.jar`) of the TinyLine SVG for CLDC 1.0.

## Using the TinyLine SVG on WTK2.5.2 or later

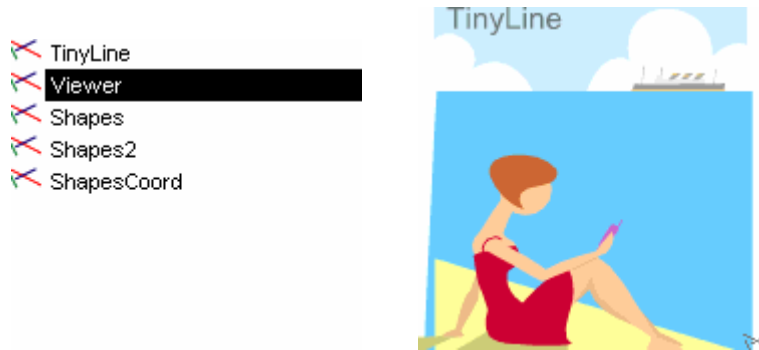
1. Copy the `tinylinetry` directory into the `C:\WTK2.5.2\app` directory or into your project directory.
2. Run the WTK2.5.2 KToolbar and set the heap size equal 2000K. By default it is very small and TinyLine SVG examples use the offscreen buffer (`TinyBuffer`).



3. Open the `tinylinetry` project and select the `MediaControlSkin`



4. Rebuild the project
5. Press the Run button and Select the example application (Viewer)



## Using the TinyLine SVG on other development tools (IDE)

You should add the path to the `tinylinetry/lib/tinyline.jar` to the class path of your IDE.

Some IDEs require that the class library (in our case `tinyline.jar`) should be PREVERIFIED. The preverified version is located at `tinylinetry/tmplib/tinyline.jar`

### 3. TinyLine SVG for Android

The `tinylinetry_and` subdirectory has the following content:

`bin` This directory contains the examples class files (`*.class`)

`lib/tinylinetry_and.jar`

This file contains core classes of the TinyLine SVG for Android.

DO NOT UNZIP THIS FILE! It must remain zipped for the compiler and interpreter to access the class files within it properly. This file contains all of the the compiled `.class` files for the TinyLine SVG.

`res` This directory contains resources (bitmaps, layouts, etc).

`src` This directory contains sources of the TinyLine SVG for Android examples (`*.java`).

`.classpath`

The Eclipse project classpath file

`.project`

The Eclipse project file

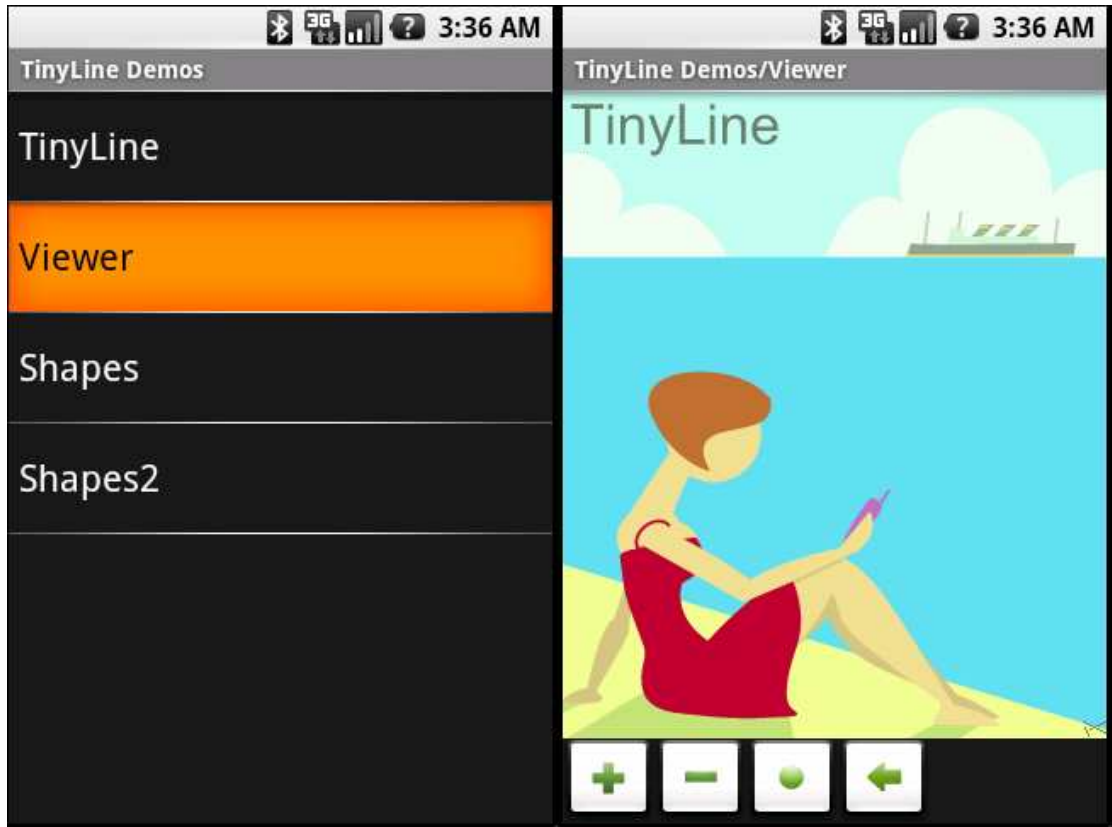
`AndroidManifest.xml`

The manifest for TinyLine SVG Eclipse project

## Using the TinyLine SVG on Eclipse with ADT

1. Copy the `tinylinetry_and` directory into your Eclipse projects directory. For example to `/user/workspace/tinylinetry_and`

2. Run Eclipse with ADT and rebuild /user/workspace/tinylinetry\_and project from scratch (Project/Clean).
3. Run tinylinetry\_and as Android Application.
4. Select the example application (Viewer)



#### **4. TinyLine for Google App Engine**

The `tinylinetry_gae` subdirectory has the following content:

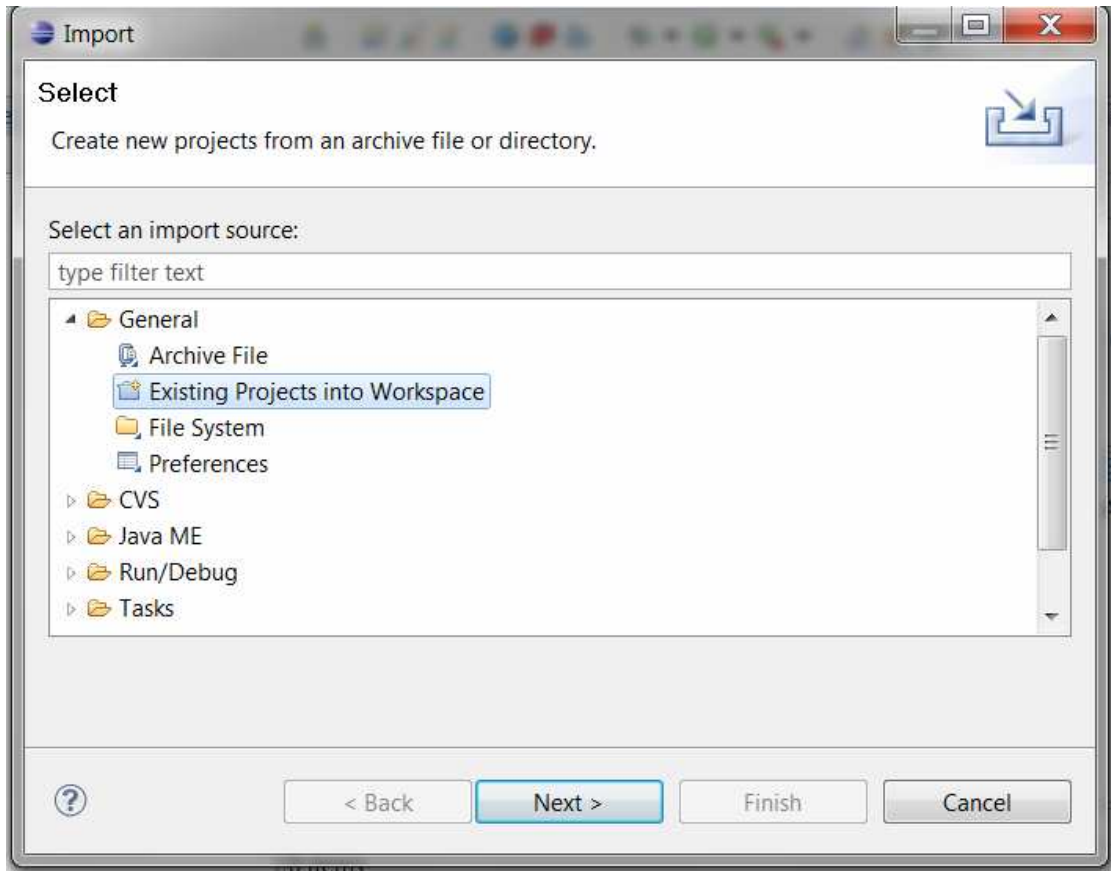
- `.settings` This directory contains the Google App Engine settings.
- `src` This directory contains the sources of TinyLine for Google App Engine: Basic demos (`*.java`).
- `war` This directory contains Web archive files.
- `.classpath`  
The Eclipse project classpath file
- `.project`  
The Eclipse project file

#### **Using TinyLine on Eclipse with Google Plugin**

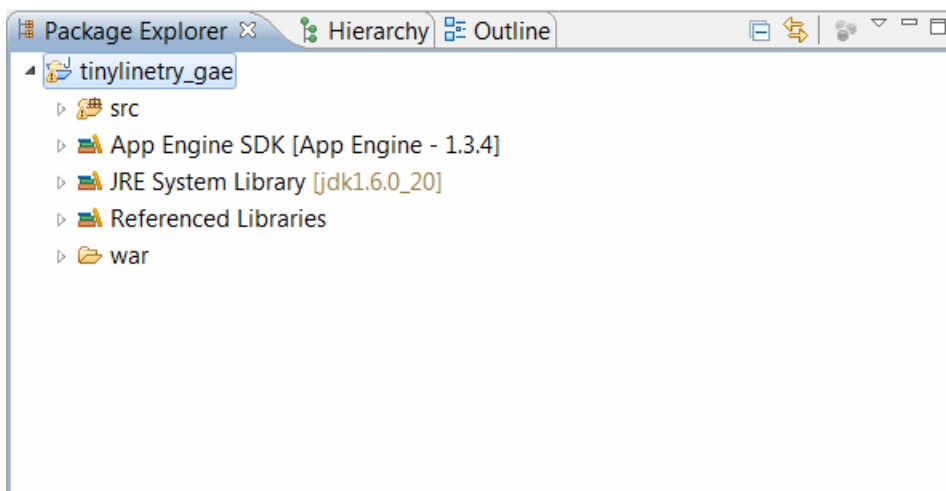
1. Install the Google Plugin for Eclipse for App Engine for Java from

<http://code.google.com/eclipse/docs/download.html>

2. Run Eclipse and import the existing project (the `tinylinetry_gae` directory).



4. You should see the following project structure in the package explorer.



5. Run the project as a Web Application

```
Problems @ Javadoc Declaration Console
tinylinestd_gae [Web Application] C:\Program Files\Java\jdk1.6.0_20\bin\javaw.exe (Aug 18, 2010 8:49:07 AM)
Your SDK:
Release: 1.3.4
Timestamp: Sat May 15 00:26:11 IDT 2010
API versions: [1.0]

-----
Please visit http://code.google.com/appengine for the latest SDK.
*****
Aug 18, 2010 5:49:08 AM com.google.apphosting.utils.jetty.JettyLogger inf
INFO: Logging to JettyLogger(null) via com.google.apphosting.utils.jetty.
Aug 18, 2010 5:49:08 AM com.google.apphosting.utils.config.AppEngineWebXm
INFO: Successfully processed C:\tinyline\tinyline24\products24\tinyline24
Aug 18, 2010 5:49:08 AM com.google.apphosting.utils.config.AbstractConfig
INFO: Successfully processed C:\tinyline\tinyline24\products24\tinyline24
Aug 18, 2010 8:49:09 AM com.google.appengine.tools.development.DevAppServ
INFO: The server is running at http://localhost:8888/
```

6. Open in a browser <http://localhost:8888/>



## TinyLine for Google App Engine: Basic demos

### TinyLine 2D Examples

TinyLine for Google App Engine comes with a list of [TinyLine 2D Examples](#). They show how Java developers could use TinyLine and Google App Engine for the server side 2D graphics.



### SVG Thumbnail images

TinyLine brings SVG server side rendering to Google App Engine platform. This example demonstrates how to build a very basic SVG Thumbnail service using TinyLine and Google App Engine. Thumbnail images are convenient way to show SVG files previews to users before they decide to download or play real SVG files. [SVG drawing service](#) fetches an SVG Tiny document from the Internet and exports a PNG image of the given size - a Thumbnail image.



### Barcode example

TinyLine for Google App Engine helps to port other graphical Java applications to the Google App Engine platform. It is easier to port Java applications that are already using SVG. [The Barcode example](#) uses Barcode4J library port. Barcode4J has a wide range of barcodes it supports, it is written in Java and it is using SVG.



See also [SVGArk: Store and Search SVG](#) which is more advanced example of using TinyLine and Google App Engine.

Check the latest version of TinyLine at [TinyLine Home](#).

## 5. TinyLine SVG for CDC/Personal Profile and J2SE

The `tinylinetry_pp` subdirectory has the following content:

`example` This directory contains the examples class files (`*.class`)

`src` This directory contains sources of the TinyLine SVG for CDC/Personal Profile and J2SE examples (`*.java`).

`lib/tinylinepp.jar`

This file contains core classes of the TinyLine SVG for CDC/Personal Profile and J2SE.

DO NOT UNZIP THIS FILE! It must remain zipped for the compiler and interpreter to access the class files within it properly. This file contains all of the the compiled `.class` files for the TinyLine SVG.

`*.html` Open these files in a Java enabled browser. These files contain examples applets.

### Run TinyLine SVG examples in a Web Browser

You can run the examples in any Java enabled browser. Just open the `index.html` file in the browser and click on links following to examples. Alternatively, you can open in a browser any `*.html` file to run a given example.

For example, you can open `tgirl.html` in your browser:



## 6. SVGT2Bin

The SVGT2Bin compiles SVG T content into TinyLine 2D data stream

**Usage:** `java -cp tinylinetry_pp.jar tinyapp.SVGT2Bin [-v] -op font|path input ouput`

## 7. More Info

For more information on the TinyLine SVG, please see <http://www.tinyline.com>