ADAMS

Advanced **D**ata mining **A**nd **M**achine learning **S**ystem

Module: adams-osm

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Chapter 1

Introduction

OpenStreetMap[2] is built by a community of mappers that contribute and maintain data about roads, trails, cafs, railway stations, and much more, all over the world.

The *JMapViewer* component [3] displays the image tiles returned by a Mapnik server (either the official OpenStreetMap one or a user-defined one, e.g., an in-house one) in Java.

Chapter 2

Flow

The following sinks are available:

- *OpenStreetMapViewer* – displays a map with the option of displaying custom markers, circles, rectangles and polygons using layers.

The following conversions are available:

- *SpreadSheetToMapObjects* – can use various generators for creating map objects (markers, circles, rectangles, polygons) with optional meta-data to be displayed in layers in a *OpenStreetMapViewer* sink.

Chapter 3

Tools

The *OpenStreetMap viewer* is a simple tool for viewing maps using the official OpenStreetMap site (internet access required). Figure 3.1 shows a map centered around Hamilton, NZ. The viewer allows you to center the map around a provided GPS location, using the decimal notation for coordinates ("lat [,] lon").

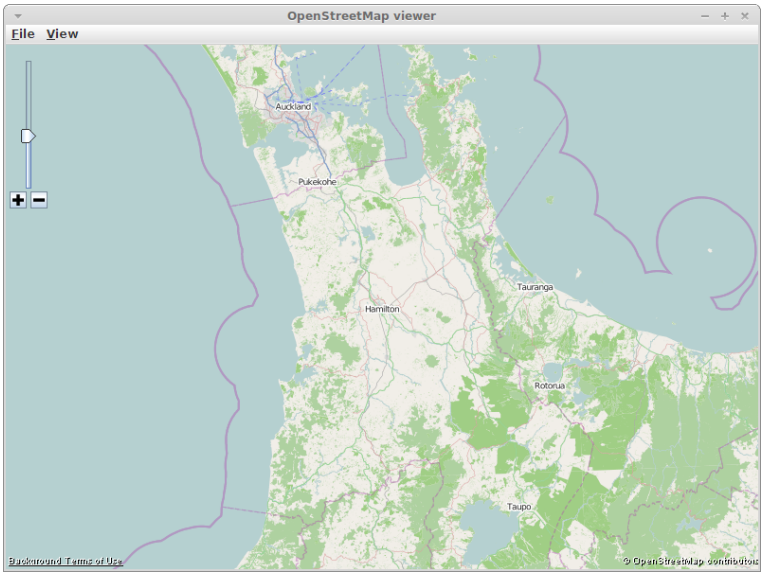

Figure 3.1: OpenStreetMap viewer showing Hamilton, NZ.

Bibliography

[1] *ADAMS* – Advanced Data mining and Machine learning System
`https://adams.cms.waikato.ac.nz/`

[2] *OpenStreetMap* – built by a community of mappers that contribute and maintain data about roads, trails, cafs, railway stations, and much more, all over the world.
`http://openstreetmap.org/`

[3] *JMapViewer* – A Java component which allows to easily integrate an OpenStreetMap view into your Java application.
`https://wiki.openstreetmap.org/wiki/JMapViewer`