

# ADAMS

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

Module: adams-osm



Peter Reutemann

January 7, 2021

©2014



THE UNIVERSITY OF  
**WAIKATO**  
*Te Whare Wānanga o Waikato*



Except where otherwise noted, this work is licensed under  
<http://creativecommons.org/licenses/by-sa/4.0/>

# Contents

<b>1</b>	<b>Introduction</b>	<b>7</b>
<b>2</b>	<b>Flow</b>	<b>9</b>
<b>3</b>	<b>Tools</b>	<b>11</b>
	<b>Bibliography</b>	<b>13</b>



# List of Figures

3.1	OpenStreetMap viewer showing Hamilton, NZ. . . . .	11
-----	--	----



# Chapter 1

## Introduction

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



The *JMapView* 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:

- *OpenStreetMapView* – 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 *OpenStreetMapView* 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”).

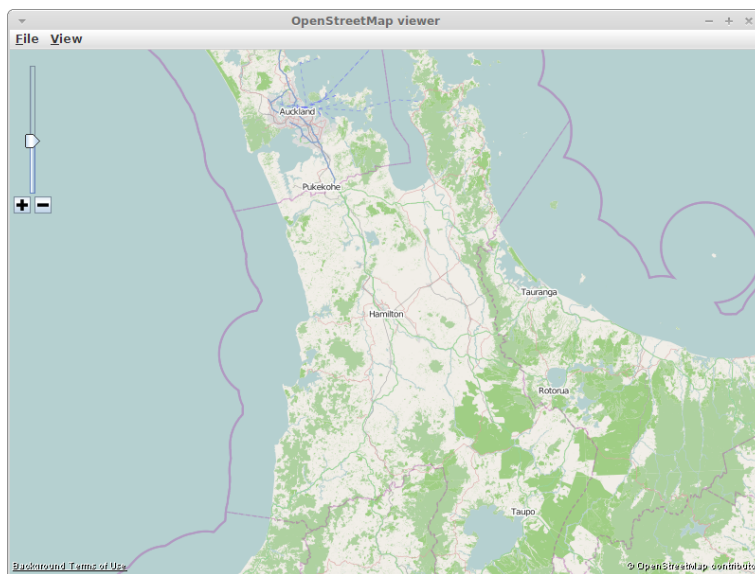


Figure 3.1: OpenStreetMap viewer showing Hamilton, NZ.



# 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] *JMapView* – A Java component which allows to easily integrate an OpenStreetMap view into your Java application.  
<https://wiki.openstreetmap.org/wiki/JMapView>