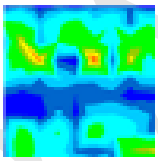
ADAMS

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

Module: adams-heatmap



Peter Reutemann

June 10, 2013

DRAFT

©2011-2013

THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato

Except where otherwise noted, this work is licensed under
http://creativecommons.org/licenses/by-sa/3.0/

Contents

1 Introduction **7**

2 Flow **9**

Bibliography **11**

List of Figures

Chapter 1

Introduction

According to WikiPedia [2], a "heat map is a graphical representation of data where the individual values contained in a matrix are represented as colors."

Chapter 2

Flow

The following conversions are available:

- *BufferedImageToHeatmap* – turns a BufferedImage into a heat map, using the RGB values (but not alpha).
- *HeatmapToArray* – generates a double array from a heat map.
- *HeatmapToBufferedImage* – generates an image from heat map.
- *HeatmapToSpreadSheet* – converts the heat map into a spreadsheet object.
- *SpreadSheetToHeatmap* – creates a heat map from an all-numeric spreadsheet.

The following transformers are available:

- *HeatmapFileReader* – reads a heat map from disk with a specified reader.
- *HeatmapFileWriter* – writes a heat map back to disk with a custom writer.
- *HeatmapFilter* – transform a heat map using a filter.
- *HeatmapInstanceGenerator* – turns a heat map into a WEKA instance.

The following sinks are available:

- *HeatmapDisplay* – displays a heatmap.

Bibliography

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

[2] *Heat map* – WikiPedia article
`http://en.wikipedia.org/wiki/Heat_map`