

# AtlasMap

The AtlasMap Team

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# AtlasMap

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# Chapter 1. Introduction

This is the AtlasMap documentation. Please standby, more to come soon.

# Chapter 2. Terminology

## AtlasMap terminology

| Term         | Definition  | Example  |
|--------------|---|--|
| AtlasMapping | The top-level mapping file containing the mapping instructions to execute at runtime  | atlasmapping.xml, atlasmapping.json                          |
| Collection   | A data type used in conversion that repeats 0 or more times   | Used to process Arrays and Lists                             |
| Data Source  | The definition of an input or output data format within an AtlasMapping file  | atlas:java, atlas:json, atlas:xml, etc                       |
| Field        | The base type used to describe a data value used in a Mapping   | JavaField, JsonField, XmlField, etc                          |
| Field Action | A function to perform on a given value of an input or output field  | CurrentDate, Trim, SubString, etc                            |
| Field Type   | Normalized convention to describe the type of data expected within the value of a field   | String, Integer, Long, Number, Date Time, etc                |
| Lookup Table | A cross reference table used at runtime to define a data conversion that varies based on the value of the input field   | Used for mapping enumerations                                |
| Mapping      | A grouping of input Field(s), output Field(s) and optionally Field Action(s) that defines the conversion to be performed at runtime within an AtlasMapping file | JavaField → JsonField, XmlField → JsonField + Uppercase, etc |
| Mapping Type | The specific type of conversion that should be performed at runtime   | Map, Combine, Separate, Collection or Lookup                 |

## AtlasMap Data Format terminology

| Term                | Definition  | Example   |
|---------------------|---|---|
| Boxed Primitive     | A type of primitive that have a 'null' value  | Integer, Long, Boolean, etc                                 |
| (Unboxed) Primitive | A type of primitive that cannot be 'null' and generally has a default initialized value     | int, long, boolean, etc                                     |
| Rooted              | JSON documents that have a parent node identifying to contents of the JSON document         | { "Contact": { "firstName": "Yu", "lastName": "Darvish" } } |
| Unrooted            | JSON documents that do not have a parent node identifying the contents of the JSON document | { "firstName": "Yu", "lastName": "Darvish" }                |

| Term        | Definition  | Example   |
|-------------|---|---|
| Qualified   | Xml elements and/or attributes that contain the namespace prefix        | <ns1:Contact ns1:firstName="Yu" ns1:lastName="Darvish" /> |
| Unqualified | Xml elements and/or attributes that do not contain the namespace prefix | <Contact firstName="Yu" lastName="Darvish" />             |

# Chapter 3. User Guide

The User Guide documents how programmers will use AtlasMap within their code projects.

## 3.1. Prerequisites

- Required: Java 1.8.0u91
- Recommended: Java 1.8.0u131 (especially for running within a container)

## 3.2. Maven Instructions

Add the AtlasMap core runtime to the pom.xml

```
<dependency>
  <groupId>io.atlasmap</groupId>
  <artifactId>atlas-core</artifactId>
  <version>{version}</version>
</dependency>
```

# Chapter 4. Release Notes

## 4.1. 2.0.0 Release

- All new modular runtime
- Supported data formats: Java, Json and Xml
- Support for auto-type detection
- Support for auto-type conversion
- Support for Field Actions
- Support for design-time and runtime mapping file Validation rules
- Design Time: Support service
- Design Time: Java class inspection service
- Design Time: Xml Schema and Xml instance inspection service
- Design Time: Json instance inspection service