

Ramone

Jørn Wildt

June 5, 2012



# Chapter 1

## Introduction

Ramone is a C# client side library that simplifies access to HTTP based Web APIs and REST services. It has a strong focus on REST and implements elements of the Uniform Interface as first class citizens of the API.

This means natural support for

- URIs as identifiers for resources.
- The standard HTTP methods GET, POST, PUT and more.
- Multiple media types (XML, JSON, HTML, ATOM and more).
- User defined media types.
- Hyper media controls (linking and key/value forms).

What Ramone does is to wrap the inner workings of HTTP (using .NET's `HttpRequest`/`HttpResponse` classes) and make encoding and decoding easier through the use of codecs for the various formats used on the web.

Ramone supports plain XML, JSON, and Atom out of the box, but where it really excels is when it comes to working with user defined objects, domain specific media types and hyper media elements.



## Chapter 2

# Getting started

### 2.1 The very first GET of a resource

The simplest possible operation we can do with Ramone is a GET of a resource from a well known URL and then decode that resource into a client side object.

As an example we can GET the Twitter timeline for user JornWildt:

```
// All interaction with Ramone goes through a session
ISession session
    = RamoneConfiguration.NewSession(new Uri("https://api.twitter.com"));

// Fixed URL to timeline of JornWildt
string url = "/1/statuses/user_timeline.json?screen_name=JornWildt";

// Create a Ramone request by binding variables to a URI template
Request request = session.Bind(url);

// GET response from Twitter
Response response = request.Get();

// Extract payload as a C# dynamic created from the JSON response
dynamic timeline = response.Body;

// Write response to console ...
Console.WriteLine("This is the timeline for JornWildt:");
foreach (dynamic tweet in timeline)
    Console.WriteLine($"{0}.", tweet.text);
```

## 2.2 Universal Resource Identifiers

Ramone depends on `System.Uri` for resource identification and adds no additional semantics to them.

## 2.3 URI Templates

Ramone depends on `System.UriTemplate` for URI templates.