Quick Reference Card
Release 1.2 February 5, 2016

**Toolbar**

![Toolbar Diagram]

**Swagger and RAPID-ML Editors**

- **Ctrl+Space** Code Assist
- **Ctrl+Shift+8** Toggle Whitespace – Useful for correcting syntax errors caused by stray whitespace.
- **Ctrl+Shift+F** Auto-Format – Works on selection or, if no text is selected, works on entire document.
- **Alt+Shift+R** Rename – Refactoring operation that changes the name of a model element, updating all references to the new name.

**RAPID-ML Editor (additional features)**

- **Ctrl+o** Quick Outline
- **F3 or Ctrl+Click** Go to Declaration

**Zooming Documentation and Diagram**

The documentation and diagram are displayed in an embedded browser. Use Ctrl +/- or Ctrl-scroll wheel to zoom.
## API Model

**API**

```
resourceAPI PersonObject
  baseURI "http://taxblaster.com/api"
```

**Object**

```
objectResource PersonObject
type Person
```

**Collection**

```
collectionResource partCollection
type MachinePart
```

**URI with Template**

```
URI taxFilings/{id}/{version}/*
```

**Parameters**

- `required templateParam id`
  - bound to property `filingID`
- `optional templateParam version`
  - of type `int`

**Exclusive Property Set**

- Override cardinality with property suffix:
  - with only properties
  - filingID!, year, taxpayer

**Inclusive Property Set**

- with all properties including
  - lastName!, addresses+

**User-Defined Types, Constraints**

- `char` `required`
  - `taxLiability`
  - `currency`

- `int` `optional` `default`
  - `taxable`

**Comments and Documentation**

- `Single-Line`
  - `// Error responses include diags.`

- `Multi-Line`
  - `/* See design guidelines on required properties. */`

- `Documentation`
  - `** An individual Tax Filing */
    objectResource taxObject` `type Tax`

## Model Import

**Import**

```
import Common.DataTypes from
  "http://my.org/Common.rapid"
...or "data models/Common.rapid"
...or "file://C:/models/Common.rapid"
```

**Namespace**

```
namespace com.xo
  rapidModel ZM
```

**Alias**

```
import Common.DataTypes from
  "Common.rapid" as cdt
```

## Data Model

**Data Model**

```
dataModel taxBlasterData
```

**Data Structure**

```
structure Person
  taxpayerID : string
  lastName : string
  dob : gDate
  address : reference to Address
```

**Cardinality**

```
! or [1..1]  employeeID : string!
* or [0..*]  otherNames : string*
+ or [1..*]  assignments : string+
  default:
? or [0..1]  dateFiled : date
```

**Enumerations**

```
  enum string CurrencyCodeEnum
    EUR : "Euro"
    USD : "US Dollar"
  enum int SpecialNullValueEnum
    NOT_AVAILABLE : -65534
    NOT_APPLICABLE : -65533
  enum int FilingStatusEnum
    //default
    DRAFT, FILED, CLOSED //0,1,2
```

**SimpleType**

```
  simpleType ISBN defined as string
  of length from 8 to 10
  matching regex "[0-9]+X?"
```

**Fractional**

```
  simpleType Fractional as decimal
  valueRange from "0" to "1"
```

## Linking and Embedding

**Reference Link**

```
Explicit hyperlink to specify target resource, link
targets or target properties:

  referenceLink >taxpayer
targetResource PersonObject
```

**Decorated Link**

```
Include important properties with the link:

  referenceLink >taxpayer
targetProperties
taxpayerID, firstName, lastName
```

**Embedded Objects**

```
Explicit embed to override default link or specify
target property subset:

  referenceEmbed >taxpayer
targetProperties
taxpayerID, fileName, address
```

## Methods and Messages

**Method**

```
method GET getPersonObject
```

**Request**

```
request //empty request
request with type Person //structure
request with TaxObject //resource
request with this //current resource
```

**Response**

```
Responses may be empty or have the current
resource (this), another resource or structure.

  response PersonObject statusCode 200
```

**Headers**

```
query param lang of type string in header
```

**Message**

```
Data types in messages support property sets,
constraints, reference linking and embedding:

  request with type TaxFiling
  with only properties
    filingID!, taxpayer!, year
  targetProperties
taxpayerID, lastName
```

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