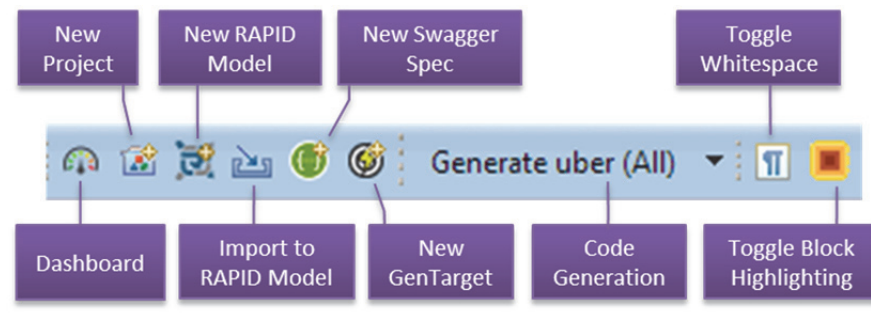


## Toolbar



## RAPID-ML Editor (additional features)

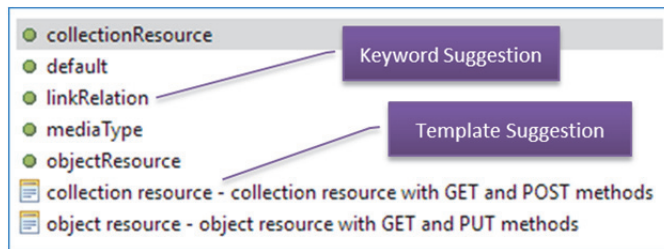
**Ctrl+Shift+F Auto-Format** – Works on selection or, if no text is selected, works on entire document.

**Alt+Shift+R Rename** – Refactoring operation that changes the name of a model element, updating all references to the new name.

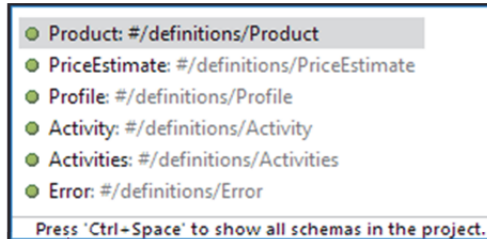
## Swagger and RAPID-ML Editors

**Ctrl+Space**

**Code Assist**



Swagger \$ref (reference properties)

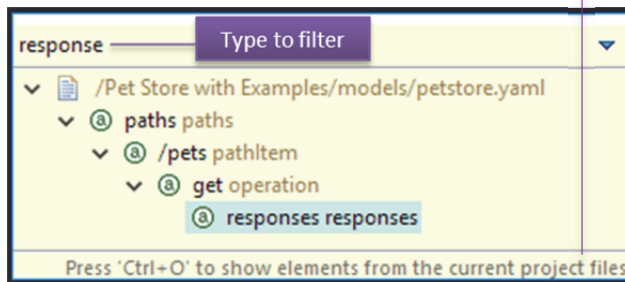


**Cycling**

(Swagger only) Repeat key combination to cycle file, project & workspace scope

**Ctrl+o**

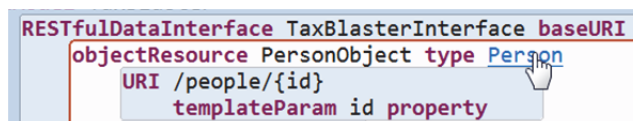
**Quick Outline**



**F3 or**

**Ctrl+Click**

**Go to Declaration**

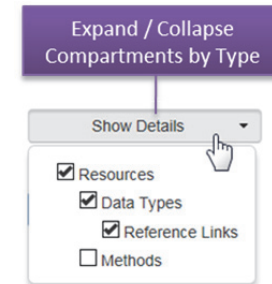


**Ctrl+Shift+8**

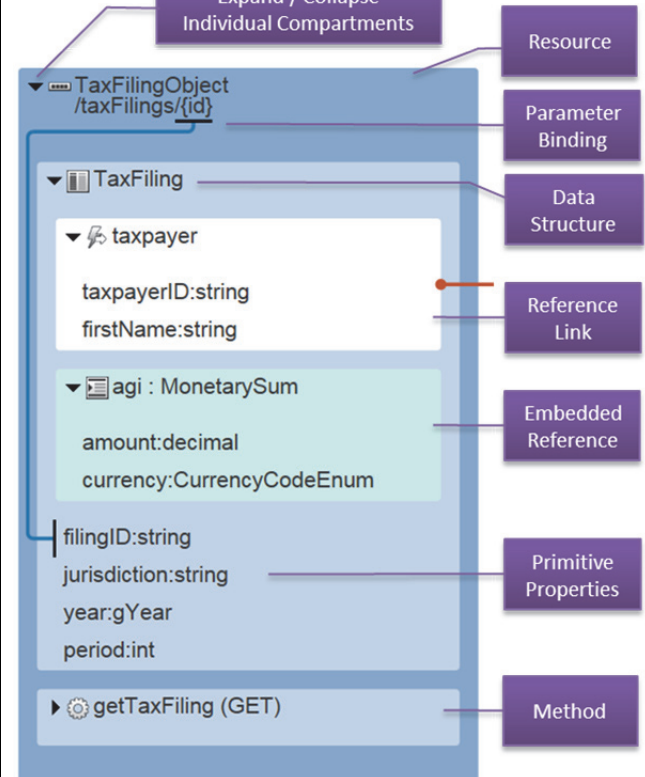
**Toggle Whitespace** – Useful for correcting syntax errors caused by stray whitespace.

## Diagram View

Zoom Documentation and Diagram Using **Ctrl +/-** or **Ctrl-scroll wheel**.



Expand / Collapse Individual Compartments





### Legend

Syntax Colors	required keyword	definition name
	optional keyword	string literal

### Data Model

Data Model	<code>dataModel</code> <b>taxBlasterData</b>
Data Structure	<b>structure</b> <b>Person</b> taxpayerID : string lastName : string dob : gDate
References	address : <b>reference to</b> Address
Cardinality	! or [1..1] → employeeID : string! * or [0..*] → otherNames : string* + or [1..*] → assignments : string+ default: ? or [0..1] → dateFiled : date
Enumerations	Has a symbolic name and an int or string value: <b>enum</b> string <b>CurrencyCodeEnum</b> EUR : "Euro" USD : "US Dollar" <b>enum</b> int <b>SpecialNullValueEnum</b> NOT_AVAILABLE : -65534 NOT_APPLICABLE : -65533 <b>enum</b> int <b>FilingStatusEnum</b> //default DRAFT, FILED, CLOSED //0,1,2
User-Defined Types, Constraints	<b>simpleType</b> <b>ISBN</b> defined as string of length from 8 to 10 matching regex "\d+X?" <b>simpleType</b> <b>Fractional</b> as decimal valueRange from "0" to "1"

### Comments and Documentation

Single-Line	// Error responses include diags.
Multi-Line	/* See design guidelines on required properties. */
Documentation	/** An individual Tax Filing */ <b>objectResource</b> <b>taxObject</b> type Tax

### Model Import

Import dataModel / resourceAPI	Import from a URL, relative or absolute path: <b>import</b> Common.DataTypes <b>from</b> "http://my.org/Common.rapid" ...or "data models/Common.rapid" ...or "file:///C:/models/Common.rapid"
Namespace	Model defined in a namespace... <b>namespace</b> com.xo <b>rapidModel</b> <b>ZM</b> must be imported using namespace prefix: <b>import</b> com.xo.ZM.API <b>from</b> "xo.rapid"
Alias	Assign an alias... <b>import</b> Common.DataTypes <b>from</b> "Common.rapid" <b>as</b> cdt to resolve name clashes: taxpayer : <b>reference to</b> cdt.Person

### API Model

API	<b>resourceAPI</b> <b>TaxBlasterAPI</b> baseURI "http://taxblaster.com/api"
Object	<b>objectResource</b> <b>PersonObject</b> type Person
Collection	<b>collectionResource</b> <b>partCollection</b> type MachinePart
URI with Template Parameters	<b>URI</b> taxFilings/{id}/{version} /* property-bound parameter */ <b>required templateParam</b> id bound to <b>property</b> filingID /* primitive type parameter */ <b>required templateParam</b> version of <b>type</b> int
Exclusive Property Set	<b>Override cardinality with property suffix:</b> <b>with only properties</b> filingID!, year, taxpayer
Inclusive Property Set	<b>with all properties including</b> lastName!, addresses+ <b>excluding</b> taxLiability, currency

### Linking and Embedding

Reference Link	<b>Explicit hyperlink to specify target resource, link relation or target properties:</b> <b>referenceLink</b> >taxpayer <b>targetResource</b> PersonObject
Decorated Link	<b>Include important properties with the link:</b> <b>referenceLink</b> >taxpayer <b>targetProperties</b> taxpayerID, lastName
Embedded Objects	<b>Explicit embed to override default link or specify target property subset:</b> <b>referenceEmbed</b> >taxpayer <b>targetProperties</b> taxpayerID, firstName, lastName, DOB

### Methods and Messages

Method	<b>method</b> <b>GET</b> <b>getPersonObject</b>
Request	<b>request</b> //empty request <b>request</b> with <b>type</b> Person //structure <b>request</b> with TaxObject //resource <b>request</b> with <b>this</b> //current resource
Request Parameters	<b>required param</b> div bound to <b>property</b> division in query <b>param</b> lang of <b>type</b> string in header
Response	Responses may be empty or have the current resource (this), another resource or structure. <b>response</b> PersonObject <b>statusCode</b> 200
Response Headers	<b>required param</b> source of <b>type</b> string <b>param</b> changeStatus bound to <b>property</b> status
Message Data Type Realization	Data types in messages support property sets, constraints, reference linking and embedding: <b>request</b> with <b>type</b> TaxFiling <b>with only properties</b> filingID!, taxpayer!, year <b>referenceLink</b> >taxpayer <b>targetProperties</b> taxpayerID, lastName