NRP MODEL CHEAT SHEET

LAYOUT - YAML OBJECTS ARRAYS person: prices: price: properties: type: array type: float firstName: keyword items: type: float — or — — or — — or price: float person{}: firstName: keyword prices: array{items:float} SIMPLE TYPES **EXTRAS ON OBJECTS** — or integer boolean person: prices[]: float label.en: "Person" type: float double properties: date (iso) firstName: ... — or time (iso) datetime (iso) — or edtf (level 0) prices[]: float edtf-interval (level 0) person{}: **EXTRAS ON ARRAYS** ^label.en: Person **TEXT TYPES** firstName: ... prices[]: type: float everything starting with ^ goes to person element, fulltext not person.properties ^label.en: Prices keyword ^minItems: 5 fulltext+keyword everything starting with ^ maps to array, not item **NESTED** — is — **Examples:** Why to use nested? See ... **EXTRAS ON ARRAY ITEMS** title: fulltext published: edtf prices[]: person: type: float type: nested minimumFxclusive: 0 properties: **CONSTRAINTS** firstName: keyword everything without starting ^ goes to item price: type: float — or minimum: 0 ARRAYS OF OBJECTS required: true person{nested}: - is people{}[]: firstName: keyword firstName: keyword — or lastName: keyword **EXTRAS ON NESTED** price: float{minimum:0, same as on objects do not use this as it is not readable, better way is required: true} \$defs or importing the definition Supported: https://t.lv/4Met

INCLUDES

use: person.vaml use: types.yaml#/Person — or — \$ref: person.vaml

118N USER INTERFACE

supported with oarepo-model-builder-ui

label.en: Person label.key: metadata.person title.en: Person tooltip hint.en: Hint in deposit form

.key → generated to .po files as msgid, if not specified, ison path within the model with removed "properies" and "items", with added ".label", ".title" and ".hint"

I18N VALUES

supported with oarepo-model-builder-multilingual

translatedTitle: i18nStr

translatedTitle{}: lang: keyword value: keyword

OS mapping is the same, no special handling for different languages

translatedTitle: multilingual

translatedTitle: type: array items{}: lang: keyword value: keyword

OS mapping per language, supported languages must be defined on root element, see docs at

CUSTOM TYPES

Custom datatypes are supported, see for details

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JSONSCHEMA OVERRIDES

```
title:
   jsonschema:
    minLength: 5
```

whatever is in jsonschema is merged with an automatic jsonschema generator (and overrides its settings). Marshmallow is not generated for such a section

MAPPING SETTINGS

```
model.yaml
model:
  metadata: ...
mapping:
  settings:
  analysis: ...
```

everything defined on model root in "mapping" section goes to the top of the OS index definition file

MAPPING OVERRIDES

compound:
 type: keyword

mapping:
 analyzer: chemcompound

everything defined inside "mapping" goes directly to index definition. Make sure the analyzer is defined in the mapping settings.

MARSHMALLOW

```
prop:
  type: object
  marshmallow:
  read: true
   write: true
  field-name: prop
   field: <if defined. use it
as it is>
   field-class: <if defined.
use it as a field class on
prop's parent
   arguments: ["key=value"]
   schema-class:
<package>.PropSchema
   base-classes: ["ma.Schema"]
   generate: true
   imports: [{import:"",
alias: ""}]
```

VOCABULARIES (INVENIO FLAVOUR)

```
affiliation:
   type: vocabulary
   vocabulary-type:
affiliations
   fields: [id, file]

- or -

the following is on one line
affiliation:
vocabulary{type=affiliations, fields=[id, title]}
id and title are default, default model is "vocabulary"
language:
```

HIERARCHY VOCABULARIES (TAXONOMIES)

the same as above, but "taxonomy" is used

vocabulary{type=languages}

```
degree-grantor:
taxonomy{type=degree-
grantors,fields=[id,title]}
```

CUSTOM VOCABULARIES

vocabularies with custom properties can be created, see docs at ...

MODEL DEFAULTS

model defaults are defined directly on the model element. The list below shows just the basic ones, to see all of them generate an empty model and look at the model.json file. Alternatively, consult the schema at

```
model:
   package:
   record-class:
   record-base-classes: []
   properties:
    ... model properties go here
```