NRP MODEL CHEAT SHEET

LAYOUT - YAML price: type: float — or price: float SIMPLE TYPES integer boolean float double date (iso) time (iso) datetime (iso) edtf (level 0) edtf-interval (level 0) **TEXT TYPES** fulltext keyword fulltext+keyword **Examples:** title: fulltext published: edtf **CONSTRAINTS** price: type: float minimum: 0 required: true — or price: float{minimum:0, required: true} Supported: https://t.ly/Cy4Z

```
OBJECTS
person:
  properties:
    firstName: kevword
— or —
person{}:
  firstName: keyword
EXTRAS ON OBJECTS
person:
  label.en: "Person"
  properties:
    firstName: ...
— or —
person{}:
  ^label.en: Person
  firstName: ...
everything starting with ^ goes to person element,
not person.properties
NESTED
Why to use nested? See ...
person:
  type: nested
  properties:
    firstName: keyword
— or —
person{nested}:
  firstName: keyword
EXTRAS ON NESTED
same as on objects
```

```
ARRAYS
prices:
  type: array
  items:
     type: float
— or —
prices: array{items:float}
— or —
prices[]:
  type: float
— or —
prices[]: float
EXTRAS ON ARRAYS
prices[]:
  type: float
  ^label.en: Prices
  ^minItems: 5
everything starting with ^ maps to array, not item
EXTRAS ON ARRAY ITEMS
prices[]:
  type: float
  minimumFxclusive: 0
everything without starting ^ goes to item
ARRAYS OF OBJECTS
people{}[]:
  firstName: keyword
  lastName: keyword
do not use this as it is not readable, better way is
$defs or importing the definition from another file
```

INCLUDES use: person.vaml use: types.yaml#/Person — or — \$ref: person.vaml I18N USER INTERFACE WIP supported with parepo-model-builder-ui label.en: Person label.key: metadata.person tooltip.en: Person tooltip hint.en: Hint in deposit form help.en: richtext help .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" WIP **I18N VALUES** supported with oarepo-model-builder-multilingual translatedTitle: i18nStr — is translatedTitle{}: lang: keyword value: keyword OS mapping is the same, no special handling for different languages translatedTitle: multilingual — is 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 - write the type methods as in https://t.ly/Cy4Z and do not forget to register the datatype to entrypoint in your setup.cfg

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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

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

JSONSCHEMA OVERRIDES

```
title:
  isonschema:
    minLength: 5
```

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

MAPPING SETTINGS

```
model.vaml
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: WIP
  type: vocabulary
  vocabulary-type:
affiliations
  fields: [id. file]
— or —
the following is on one line
affiliation:
vocabulary{type:affiliations,f
ields:[id,title]}
id and title are default, so you can write
language:
vocabulary{type:languages}
```

HIERARCHY VOCABULARIES (TAXONOMIES)

```
degree-grantor: WIP
taxonomv{tvpe:degree-
grantors,fields:[id,title]}
— or —
degree-grantor:
  type: taxonomy
  taxonomy-type=degree-
grantors
  fields=[id, title]
```

CUSTOM VOCABULARIES WIP



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