Attaching Semantics

Partial replay from T2TRG 2018-10-11

Attaching Semantics

"Semantic Style" (looking for a better word)

Attach information via **selectors** into the instance

— Similar to adding style semantics to HTML via CSS

One "style" can apply to:

— single instance
— "class" of instances (making it "metadata")

SDF

Models are instances

Can use JSON pointer as a selector syntax for a single item in a
single spec

More complex selectors may come in handy later ("all
IPSO models"...)

Approaches

Transformation language (DSSSL/XSLT)

— What is the target language (generic data model)?

Augmentation language (CSS)

— In-model augmentation:
   Stay in generic data model of input

— Extra-model augmentation:
   Generate into expanded generic data model

SDF

Both transformation and augmentation might make sense

In-model augmentation might trigger existing extension points
Extra-model augmentation creates new extension points (i.e., they don't really differ that much)

Rules

selector ➜ effect

```
.warning {color: red}
```

Selector selects zero or more structural elements into a "node set"

Effect is then applied to each selection

SDF

Start with JSON pointer

Use JSON syntax, as usual

```
{ ...
  "pg:#/sdfType/foo": ...
}
```