

fluid.model.transformWithRules



This functionality is [Sneak Peek](#) status. This means that the **APIs may change**. We welcome your feedback, ideas, and code, but please use caution if you use this new functionality.



This page is still a rough draft.

fluid.model.transformWithRules(model, rules)

Transforms a model based on a specified expansion rules objects.

```
fluid.model.transformWithRules(model, rules);
```

File name: ModelTransformations.js

Parameters

model	(Object) the model to transform
rules	(Object) a rules object containing instructions on how to transform the model (see below for more information)
options	(Object) a set of rules governing the transformations. At present this may contain the values: <code>isomorphic: true</code> indicating that the output model is to be governed by the same schema found in the input model, or <code>flatSchema</code> holding a flat schema object which consists of a hash of EL path specifications with wildcards, to the values "array"/"object" defining the schema to be used to construct missing trunk values.

Return Value

Object	the transformed model
---------------	-----------------------

See Also

- [Model Transformation](#)

Rules

Rules objects take the form of:

```
{
  "target.path": "value.el.path"
}
```

or

```
{
  "target.path": {
    transform: {
      type: "transform.function.path",
      ...
    }
  }
}
```

Transformation Expanders

The Framework currently provides the following expanders that can be used as part of a model transformation.

- `fluid.transforms.value`
- `fluid.transforms.arrayValue`
- `fluid.transforms.firstValue`
- `fluid.transforms.merge`

Each of these is described below.

`fluid.transforms.value`

This extracts and/or the value of a given path, and can be used for the following purposes:

To rename a property:

Start:

```
var source = {
  cat: "meow",
  ...
}
```

>>

Rule to rename "cat" to "feline":

```
var rules = {
  feline: {
    transform: {
      type: "fluid.transforms.value",
      // specify only the path to transform
      inputPath: "cat"
    }
  },
  ....
}
```

>>

Result:

```
{
  feline: "meow",
  ...
}
```

To set a default value:

Start:

```
var source = {
  gerbil: undefined,
  // or if "gerbil" doesn't exist
  ...
}
```

>>

Rule to set default value of "gerbil":

```
var rules = {
  gerbil: {
    transform: {
      type: "fluid.transforms.value",
      // specify path and default value
      inputPath "gerbil",
      value: "squeek"
    }
  },
  ....
}
```

>>
Result:

```
{
  gerbil: "squeek",
  ...
}
```

Note that if "gerbil" has a value initially, it will be unaffected.

To specify a literal value:

Start:

```
var source = {
  // no mention of kangaroos
  ...
}
```

>>
Rule to set a value for "kangaroo":

```
var rules = {
  kangaroo: {
    transform: {
      type: "fluid.transforms.value",
      // specify only a value
      value: "boingg"
    }
  },
  ....
}
```

>>
Result:

```
{
  kangaroo: "boingg",
  ...
}
```

To change the structure/nesting:

Start:

```
var source = {
  goat: false,
  sheep: [
    "baaa",
    "woooooool"
  ],
  ...
}
```

>>
Rule to change the nesting:

```
var rules = {
  "farm.goat": {
    transform: {
      type: "fluid.transforms.value",
      inputPath "goat"
    }
  },
  "farm.sheep": {
    transform: {
      type: "fluid.transforms.value",
      inputPath "sheep"
    }
  }
  ....
}
```

>>
Result:

```
{
  farm: {
    goat: false,
    sheep: [
      "baaa",
      "woooooool"
    ]
  },
  ...
}
```

fluid.transforms.arrayValue

The arrayValue expander will transform a value into an array. If the value is already an array, the expander will have no effect.

For example:

Start:

```
var source = {
  cat: "meow",
  sheep: [
    "baaa",
    "woooooool"
  ],
  ...
}
```

>>

Rule to convert to arrays:

```
var rules = {
  cat: {
    transform: {
      type: "fluid.transforms.arrayValue",
      inputPath "cat"
    }
  },
  sheep: {
    transform: {
      type: "fluid.transforms.arrayValue",
      inputPath "sheep"
    }
  }
  ....
}
```

>>

Result:

```
{
  cat: ["meow"],
  sheep: [
    "baaa",
    "wooooool"
  ],
  ...
}
```

Note that the value of `cat` is now an array, but the value of `sheep` is unaffected.

fluid.transforms.firstValue

fluid.transforms.merge

Example

In this example, description here...