Using the Loader

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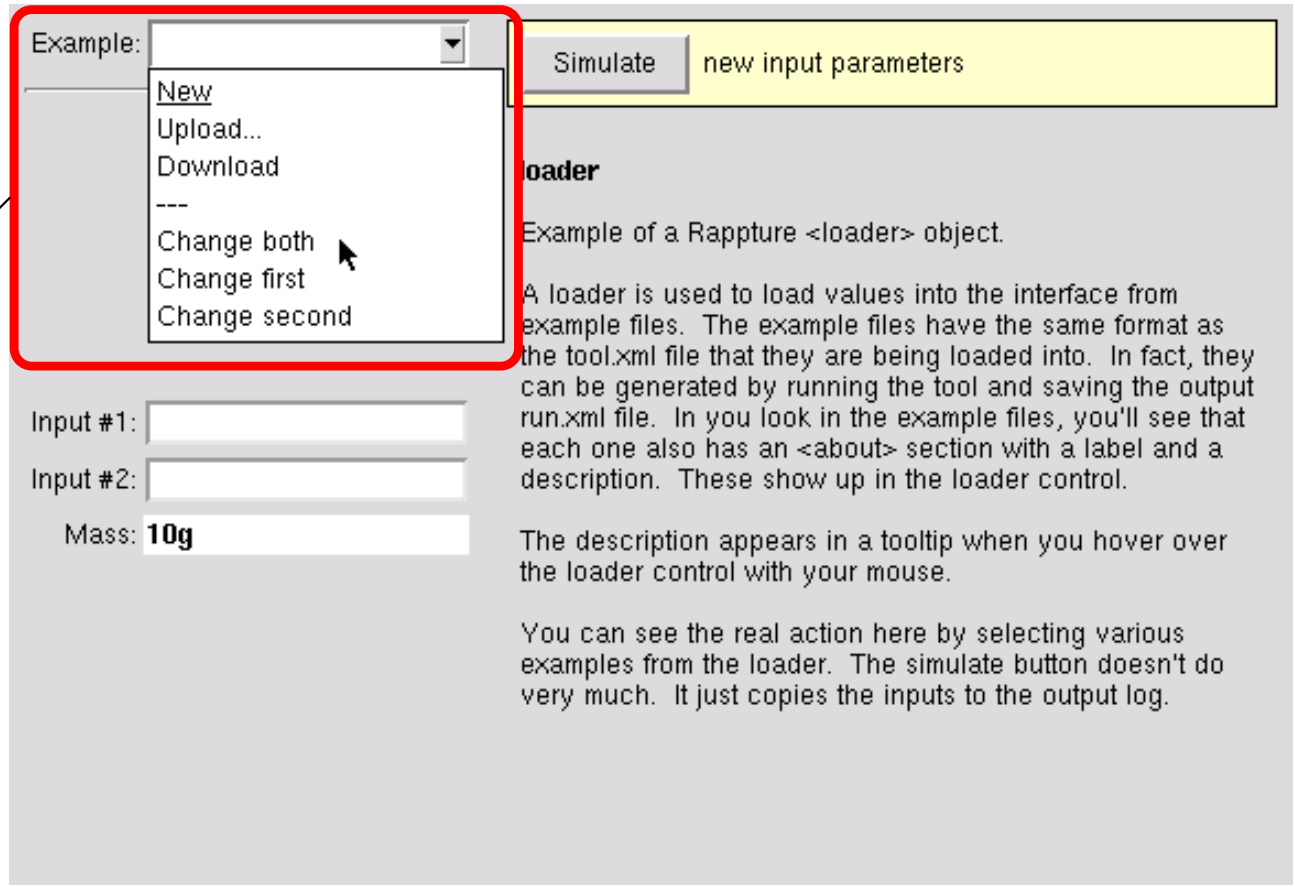
Introducing the loader...

loader



Change both

Input #1: first
Input #2: second
Mass: **10g**

Change first

Input #1: hello
Input #2: second
Mass: **10g**

Change second

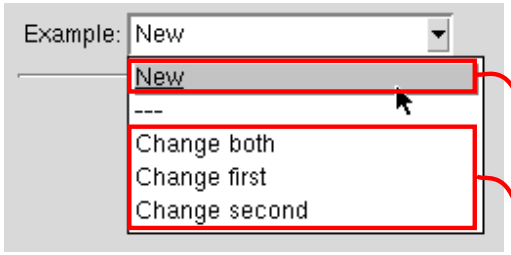
Input #1: hello
Input #2: goodbye
Mass: **10g**

New

Input #1: (enter a value here)
Input #2: (enter a value here)
Mass: **10g**

Loader definition

Put the loader definition in your input section, usually near the top:

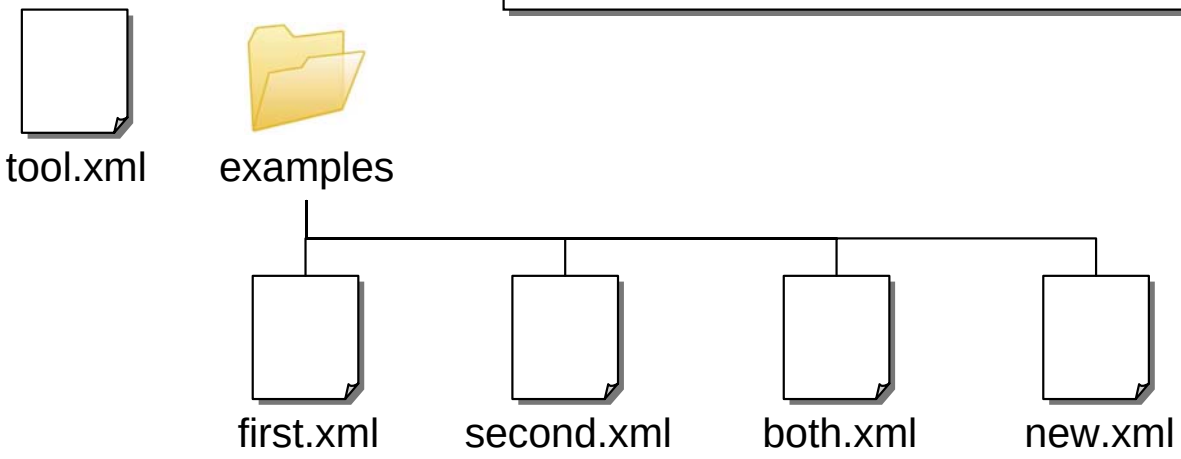



```
<loader>
  <about>
    <label>Example</label>
    <description>This loads examples.</description>
  </about>

  <new>new.xml</new>

  <example>*.xml</example>

  <default>new.xml</default>
</loader>
```

Load by default

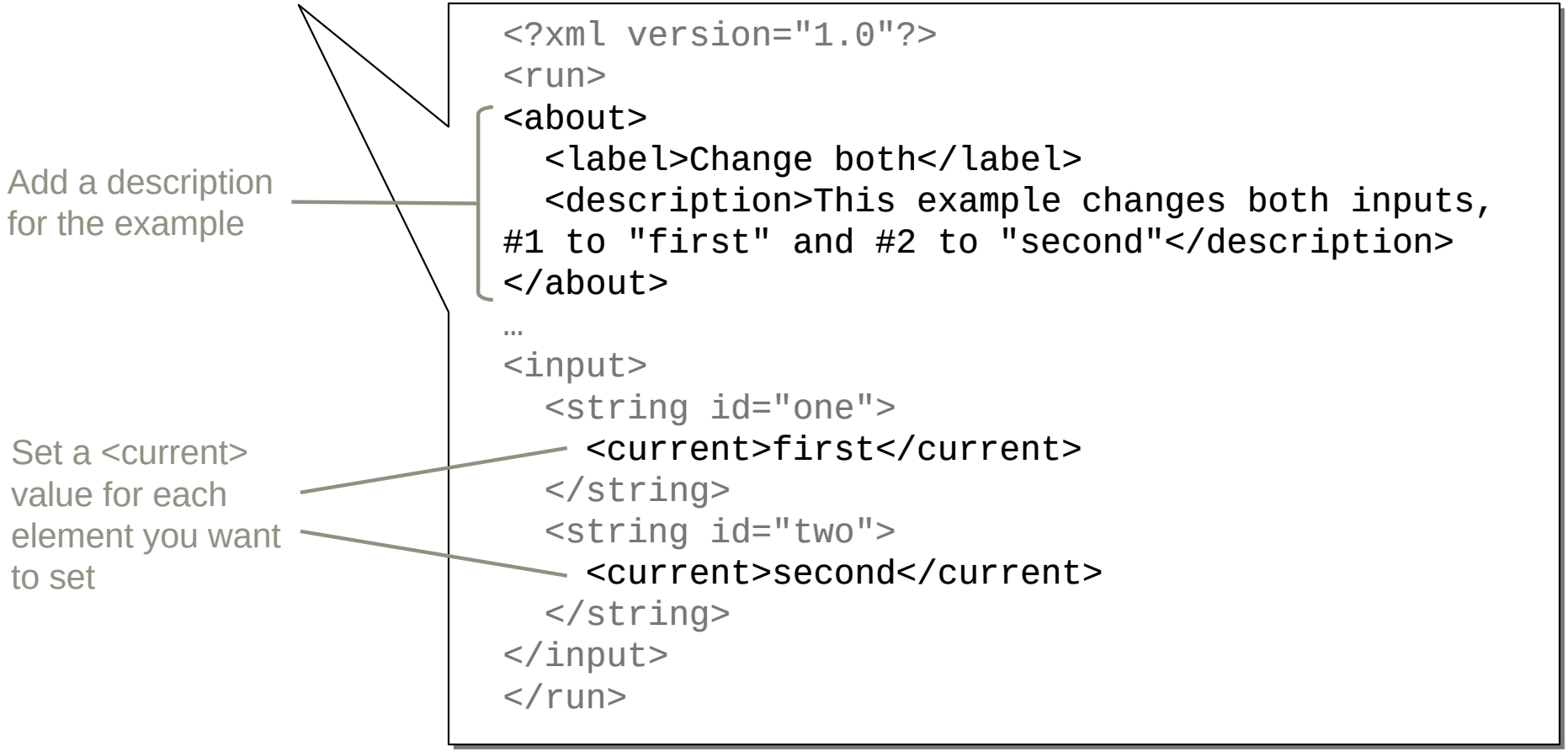
These files sit in `@tool/examples`

`@tool` is where `tool.xml` sits



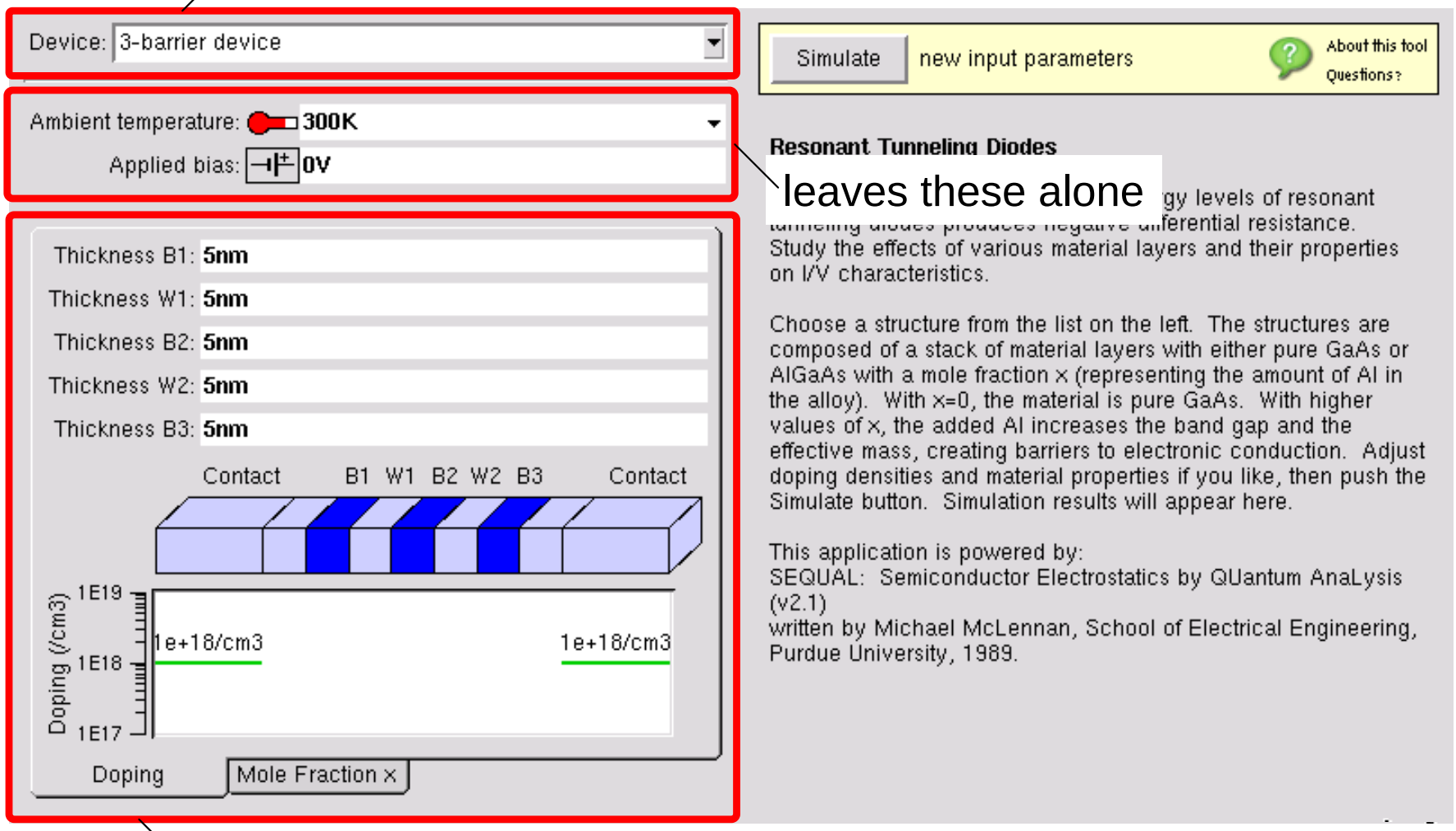
How do you make an example file?

```
cp tool.xml examples/both.xml
vi examples/both.xml
```



More complex example

loader



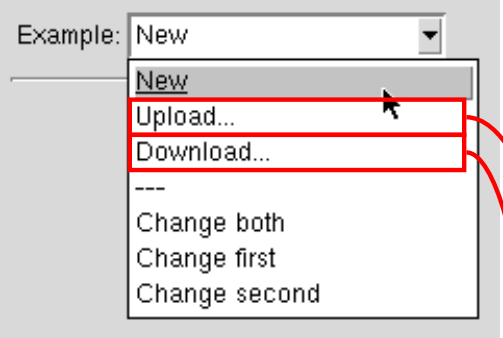
leaves these alone

loads a <structure> element

https://nanohub.org/tools/rtd

Using the loader to upload/download data

Add targets for upload/download forms




```
<loader>
  <about>
    <label>Example</label>
    <description>This loads examples.</description>
  </about>
  <upload>
    <to>input.string(indeck)</to>
    <to>input.string(datafile)</to>
  </upload>
  <download>
    <from>input.string(indeck)</from>
    <from>input.string(datafile)</from>
  </download>

  <new>new.xml</new>
  <example>*.xml</example>

  <default>new.xml</default>
</loader>
```

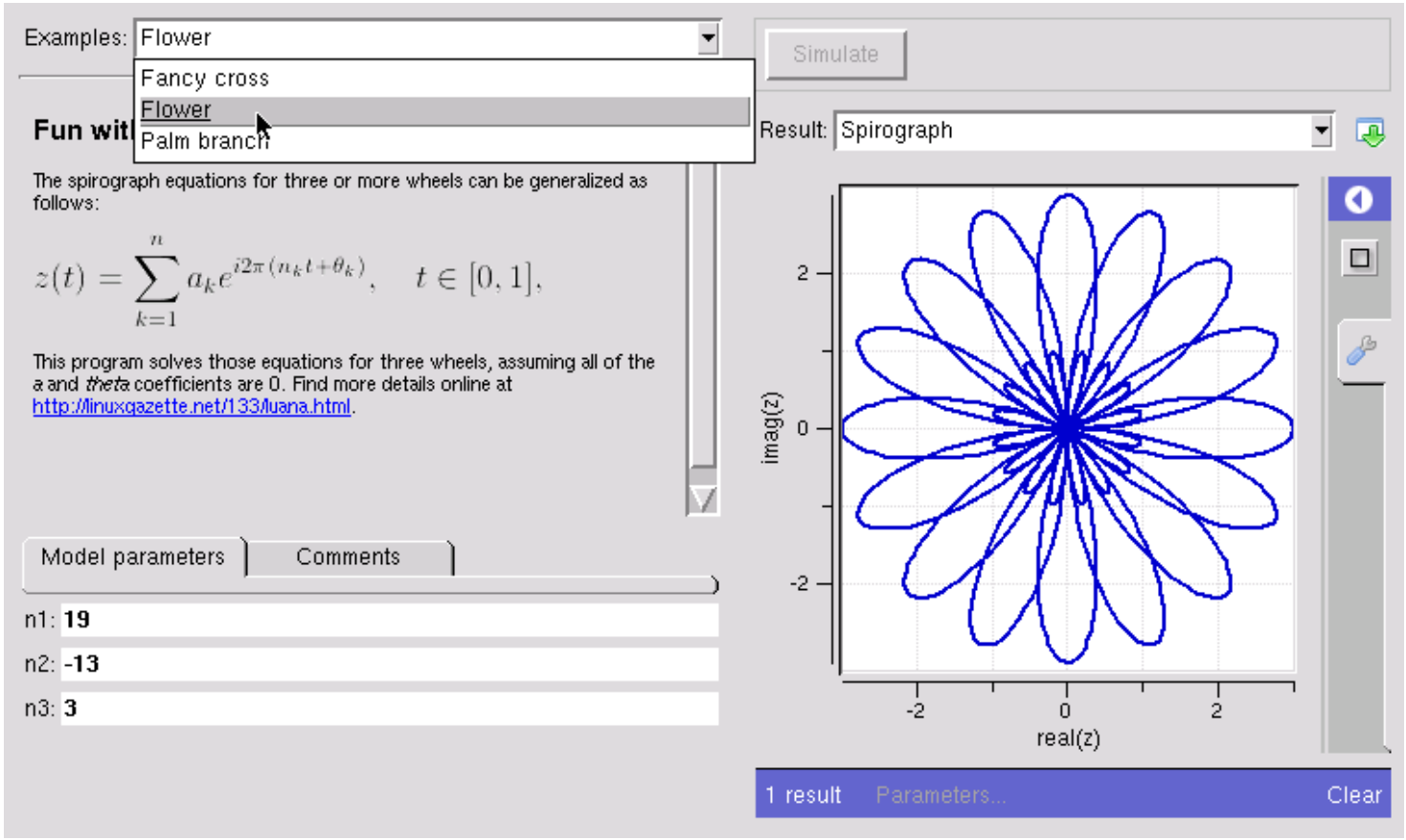
Prompts the user to upload directly into various controls

Most useful for <string> inputs

Allows the user to download input values, edit, and upload again

Assignment #8: Add a loader

Add a `<loader>` to the Rappture interface for your MATLAB script:



Include these examples	Fancy cross	Flower	Palm Branch
	n_1 = 13	n_1 = 19	n_1 = 7
	n_2 = -7	n_2 = -13	n_2 = -5
	n_3 = -3	n_3 = 3	n_3 = 2