XForms 2.0 Cheatsheet

Common Attributes

- id [not AVT],model [not AVT]
- context
- xml:lang
- class

Binding Attributes

• bind [not AVT], ref

The value and mediatype Attributes

value, mediatype

model

- instance
- bind
- function
- result
- var

instance

- src [not AVT]
- resource [not AVT]
- response-mediatype [not AVT]

<u>bind</u>

type, constraint, relevant, required, readonly, calculate, label, help,hint, p3ptype

```
<bind ref="action"
readonly="../status='accepted'"/>
```

var

<var name="message"
value="instance('message')"/>

function

- signature [not AVT]
- override
- type
- var*
- result)?

<function signature="my:sumproduct(\$p as
xs:decimal*, \$q as xs:decimal*) as
xs:decimal">
 sum(for \$i in 1 to count(\$p) return
\$p[\$i]*\$q[\$i])
</function>
<function signature="my:fibonacci(\$n as
xs:integer) as xs:integer">
 <var name="sqrt5" value="math:sqrt(5)"
 <result value="(math:power(1+\$sqrt5,
\$n) - math:power(1-\$sqrt5,
\$n) div
(math:power(2,
\$n) * \$sqrt5)"/>
</function>

Controls

- appearance: "full" | "compact" | "minimal"
- inputmode
- incremental
- UI Common: <u>label</u> (xs:string) | <u>help</u> (xs:string) | <u>hint</u> (xs:string) | <u>alert</u> (xs:string)
- naviindex

accesskey

Core Controls

<u>input</u>

<input ref="order/shipTo/street"
label="Street"/>

secret

<secret ref="/login/password"
label="Password" hint="The password you
enter will not be displayed"/>

textarea

<textarea ref="message/body"
label="Message Body:"/>

output

<output ref="age" label="Age:"/>
<output class="note">Deleted</output>

<u>upload</u>

accept: Optional comma-separated list of suggested mediatypes

<u>range</u>

- start, end
- step
- Types:xs:duration, xs:date, xs:time, xs:dateTime, xs:gYearMonth, xs:gYear, xs:gMonthDay, xs:gDay, xs:gMonth, xs:float, xs:double, and xs:decimal.

```
<range ref="/stats/balance" start="-2.0"
end="2.0" step="0.5" label="Balance"/>
```

trigger

```
<trigger label="Click here">
  <message ev:event="DOMActivate">Hello!
</message>
</trigger>
```

submit

Shorthand for a trigger with a send action.

submission

```
<submit label="OK"/>
<submit submission="timecard"
label="Submit Timecard"/>
```

Selection Controls (Select/Select1)

- selection: "open" or "closed"
- appearance: full | compact | minimal

The (múltiple) select Element

```
<select ref="flavors" label="Flavors">
  <item label="Vanilla">v</item>
  <item label="Strawberry">s</item>
  <item label="Chocolate">c</item>
  </select>
```

The (single) select1 Element

```
<select1 ref="icecream/flavor"
label="Flavour">
  <item label="Vanilla">v</item>
  <item label="Strawberry">s</item>
</select1>
```

choices

```
<choices label="Cold">
  <item label="Water">water</item>
  <item label="Milk">milk</item>
</choices>
```

itemset

copy: Optional, value to be copied.

```
<itemset model="flavors" ref="flavor"
label="{description}"
copy="description"/>
<copy ref="."/>
```

The Control

resource, initial

<control resource="today.xhtml"
label="Today's date:"/>

Container Controls

group

collapse: One of ("open" | "closed").

Switch / Case / Toggle

- case : selected (false) Initial status for the case (boolean)
- name

dialog

- level:"modeless"|"modal"|<u>PrefixedName</u>)
 (def: "modal").
- hide: Optional boolean (def : true)

Content: (Controls | UI Common)*

- Show / Hide
- dialog

repeat

- indexref Optional<u>Single Item Binding</u> to simpleContent, with which the repeat index is synchronized.
- startindex Optional 1-based initial value
- number
- Content: (Controls | Action)*

```
<repeat ref="/products/product"
class="list">
    <output ref="."/><html:br/>
    </repeat>
```

Submission

- Header
- nonrelevant ("keep" | "remove" | "empty")
- relevant (xs:boolean) [deprecated]
- validate (xs:boolean)
- resource (xs:anyURI)
- action (xs:anyURI) [deprecated]
- mode ("asynchronous" | "synchronous")
- method ("post" | "get" | "put" | "delete"
 "multipart-post" | "form-data-post" |

"urlencoded-post" | Any other <u>NCName</u> | PrefixedName)

- serialization (xs:string)
- mediatype (xs:string)
- encoding (xs:string)
- separator (";" | "&")
- version (xs:NMTOKEN)
- indent (xs:boolean)
- omit-xml-declaration (xs:boolean)
- standalone (xs:boolean)
- cdata-section-elements (QnameList)
- includenamespaceprefixes (xs:NMTOKENS)
- response-mediatype (xs:string)
- replace ("all" | "instance" | "text" | "none" |
 PrefixedName)
- instance (xs:IDREF)
- targetref (Single Item Binding)
- target ("_self" | "_blank" | xs:string)

```
<submission
  ref="instance('address')"
  resource="http://example.com/new-
address"
  method="post"
  replace="none">
  <header name="Accept"</pre>
```

combine="replace">application/sparqlresults+xml</header>
</submission>

Events

Initialization Events

xforms-model-construct, xforms-model-construct-done, xforms-ready, xforms-model-destruct

Interaction Events

xforms-focus, xforms-previous, xforms-next, xforms-help, xforms-hint, DOMActivate, xforms-submit, xforms-submit-serialize, xforms-dialog-show, xforms-dialog-hide

Notification Events

xforms-insert, xforms-delete, xforms-value-changed, xforms-invalid, xforms-valid, xforms-readonly, xforms-readwrite, xforms-required, xforms-optional, xforms-enabled, xforms-disabled, DOMFocusIn, DOMFocusOut, xforms-select, xforms-deselect, xforms-in-range, xforms-out-of-range, xforms-scroll-first, xforms-scroll-last, xforms-submit-done, xforms-dialog-shown, xforms-dialog-hidden

Error Handling

xforms-binding-error, xforms-expressionerror, xforms-action-error, xforms-computeerror, xforms-version-error, xforms-linkerror, xforms-load-error, xforms-outputerror, xforms-submit-error

Actions

Common atributes:

if

<setfocus

```
ev:event="xforms-value-changed" control="LocalControl" if="string-length(.)=3 and . > 0"/>
```

• while

<action

while="instance('temps')/counter <=
count(/some/nodes)">

iterate (node-sequence)

```
<setvalue iterate="*/total" ref="."
value="0"/>
```

XML Events

- event(NMTOKEN)
- observer (IDREF)
- target (IDREF)
- handler (URI)
- phase ("capture" | "default"*)
- propagate ("stop" | "continue"*)
- defaultAction ("cancel" | "perform"*)

action

- type: Optional MIME type of the language of the script.
- Content: (Action | var)* | param*, body

```
<action ev:event="DOMActivate">
  <setvalue ref="ready">yes</setvalue>
```

```
<send/>
</action>
```

param

- name
- value

body

setvalue

```
<setvalue ref="a" value="0"/>
<setvalue iterate="player/score" ref="."
value="0"/>
```

insert

- origin: items to be inserted.
- at: index where items are to be inserted.
- position: before and after.

```
<insert context="/purchaseOrder"
ref="item" at="index('R')"
origin="/item" />
```

delete

at

```
<delete ref="list/a" at="1"/>
<delete ref="list/a" />
```

setindex

repeat

```
    index
```

```
<setindex repeat="R" index="index('R')
+1"/>
```

toggle

case

<toggle case="home"/>

setfocus

control

<setfocus ev:event="xforms-ready"
control="start"/>

previousfocus

coreviousfocus/>

nextfocus

```
<input ref="." incremental="true"
label="4 chars:">
<nextfocus ev:event="xforms-value-changed" if="string-length(.)=4"/>
</input>
```

dispatch

- name
- targetid
- control
- delay
- bubbles
- cancelable
- property

property

rebuild

recalculate

revalidate

<u>update</u>

refresh

reset

retain

load

- resource
- target (" self" | " blank")

<load><resource>http://example.com/
index.html</resource></load>

send

submission

```
<send submission="s1"/>
<send model="m"/>
```

<u>return</u>

nonrelevant

<u>renew</u>

control

<renew control="game"/>

message

• level: ephemeral | modeless | modal