# interface

* a vertical list of identities displaying id and name on left. right side contains two thin line graphs displaying value and change product over time.
* when selected, all fields are displayed below the name and can be manipulated.
* identities can be organized into folders to represent constructs.
* switch between folder/category and alphabetical views.

# components

## identity

### fields:

1. id
2. function / auto-subscribe
3. value / notify
4. change / notify
5. change product / notify
6. color
7. name
8. tags
9. auto

### behavior:

1. when notified of change, an identity will:
   1. evaluate its function (hardest part to implement)
   2. update value
   3. update change
   4. update change product
   5. if change product is not equal to 1, notify subscribers
2. when auto-subscribe is selected, add own id to applicable identities update list.
3. function reference syntax:
   1. %XXX references XXX’s change product
   2. #XXX references XXX’s value
   3. @XXX references XXX’s change
4. function special syntax:
   1. boolean logic
      1. > greater than
      2. < less than
      3. == equals
5. auto allows user to specify a time interval in milliseconds to be updated.

### ideas to implement:

1. allow ‘auto’ to be a function

## display device:

a special identity which has a square display box, and two function fields (e.g. ‘x’ and ‘y’ respectively).

## input device:

a special identity which updates itself in response to keyboard or mouse input.

### summary:

allows user to manipulate many identities at once by the use of ‘tags’.