

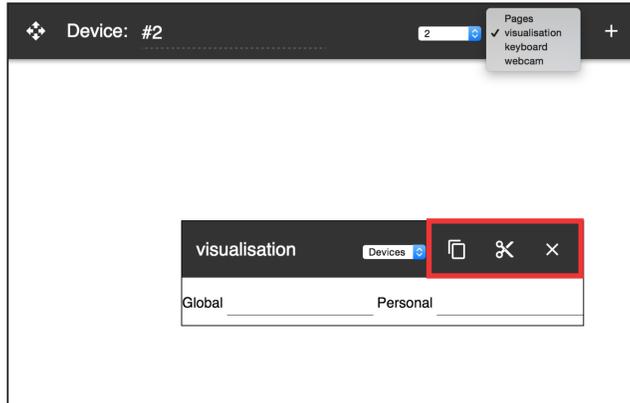
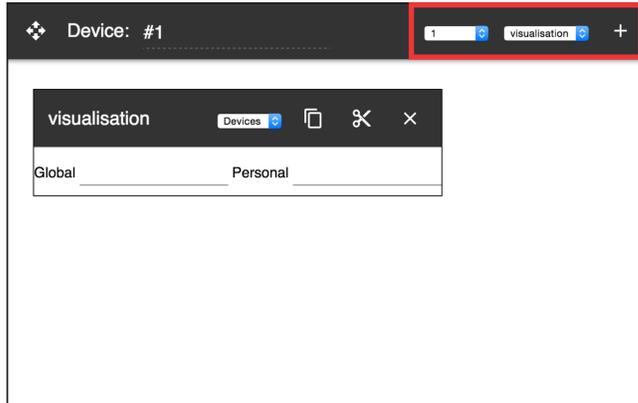


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Towards Liquid Web Applications



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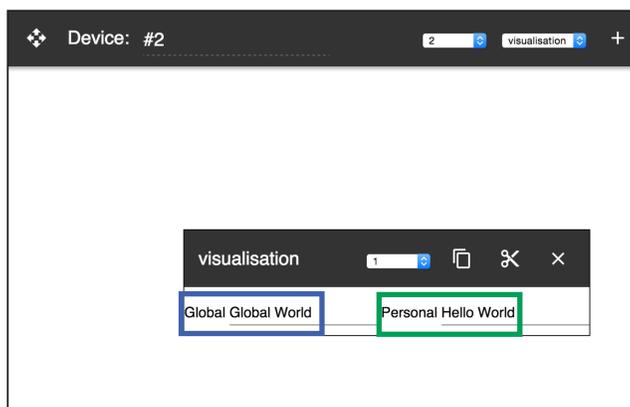
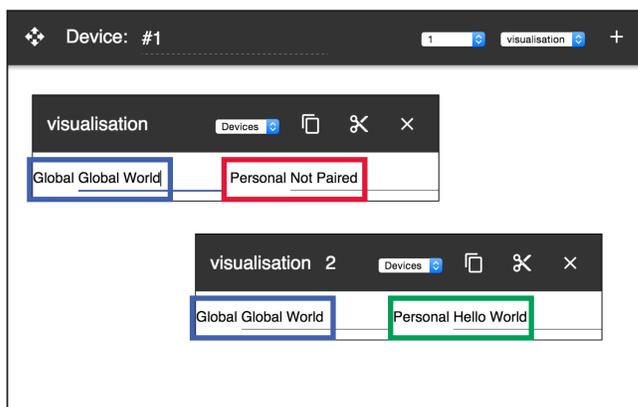
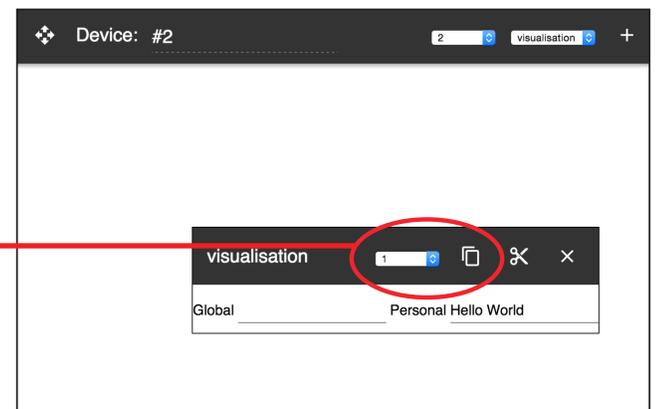
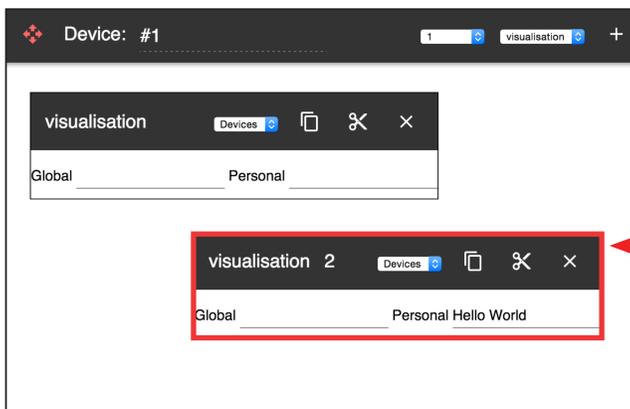


Liquid User Experience

- Create UI components
- Migrate UI components
- Clone UI components
- Close UI components

Liquid Components

- Automatic data synchronisation
- Direct communication among paired components
- Dynamic deployment on heterogeneous devices



Liquid Storage

- - Global variables
- - Local variables
- - Paired variables

Design Liquid Web Applications

JSON Description

- Components
- Variables

HTML



WebComponents

- HTML
- CSS
- Javascript (+ liquid.js library)



```

config.json
1 {
2   "title": "Collaborative writer",
3   "port": 9999,
4
5   "pages": {
6     "visualisation": {
7       "globals": ["text"],
8       "locals": ["personalText"]
9     },
10
11    "keyboard": {
12      "globals": [],
13      "locals": ["last"]
14    },
15
16    "webcam": {
17      "globals": [],
18      "locals": ["picture"]
19    }
20  },
21
22  "initialisation": {
23    "text": "",
24    "personalText": "",
25    "last": "",
26    "picture": ""
27  },
28
29  "permission": {
30    "personalText": {
31      "read": true,
32      "write": true
33    },
34    "last": {
35      "read": false,
36      "write": false
37    }
38  }
39 }

```

```

visualisation.html
1 <Link rel="import" href="/customs/polymer/polymer.html">
2 <Link rel="import" href="/customs/paper-input/paper-input.html">
3
4 <polymer-element name="liquid-page-visualisation">
5   <template>
6     <style>
7
8     </style>
9     <div>
10      Global <paper-input value="{{text}}">
11      </paper-input>
12      Personal <paper-input value="{{personalText}}">
13      </paper-input>
14    </div>
15   </template>
16
17   <script>
18     Polymer('liquid-page-visualisation', {
19       publish: {
20         text: "",
21         personalText: ""
22       },
23       textChanged: function(oldValue, newValue) {
24         if(oldValue != newValue) {
25           this.fire('var-change', {'text': newValue})
26         }
27       },
28       personalTextChanged: function(oldValue, newValue) {
29         if(oldValue != newValue) {
30           this.fire('var-change', {'personalText': newValue})
31         }
32       }
33     });
34   </script>
35
36 </polymer-element>

```

