

ArcGIS API for JavaScript: Using Arcade with your Apps

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ESRI EUROPEAN DEVELOPER SUMMIT



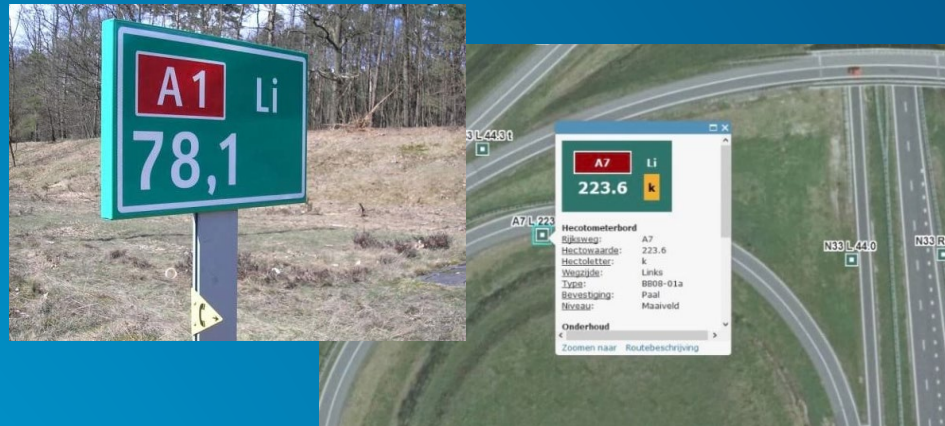
Arcade – Why ?



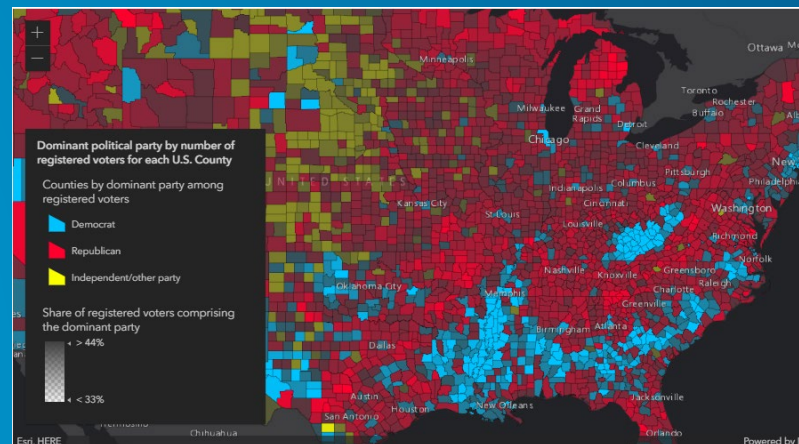
- First released 2017
- Current version 1.8.0. (October 3 2019)
- Light weight expression language
- X-platform
- Native support for geometries
- Profiles control capabilities
- Dynamic data-prep

Examples of using Arcade

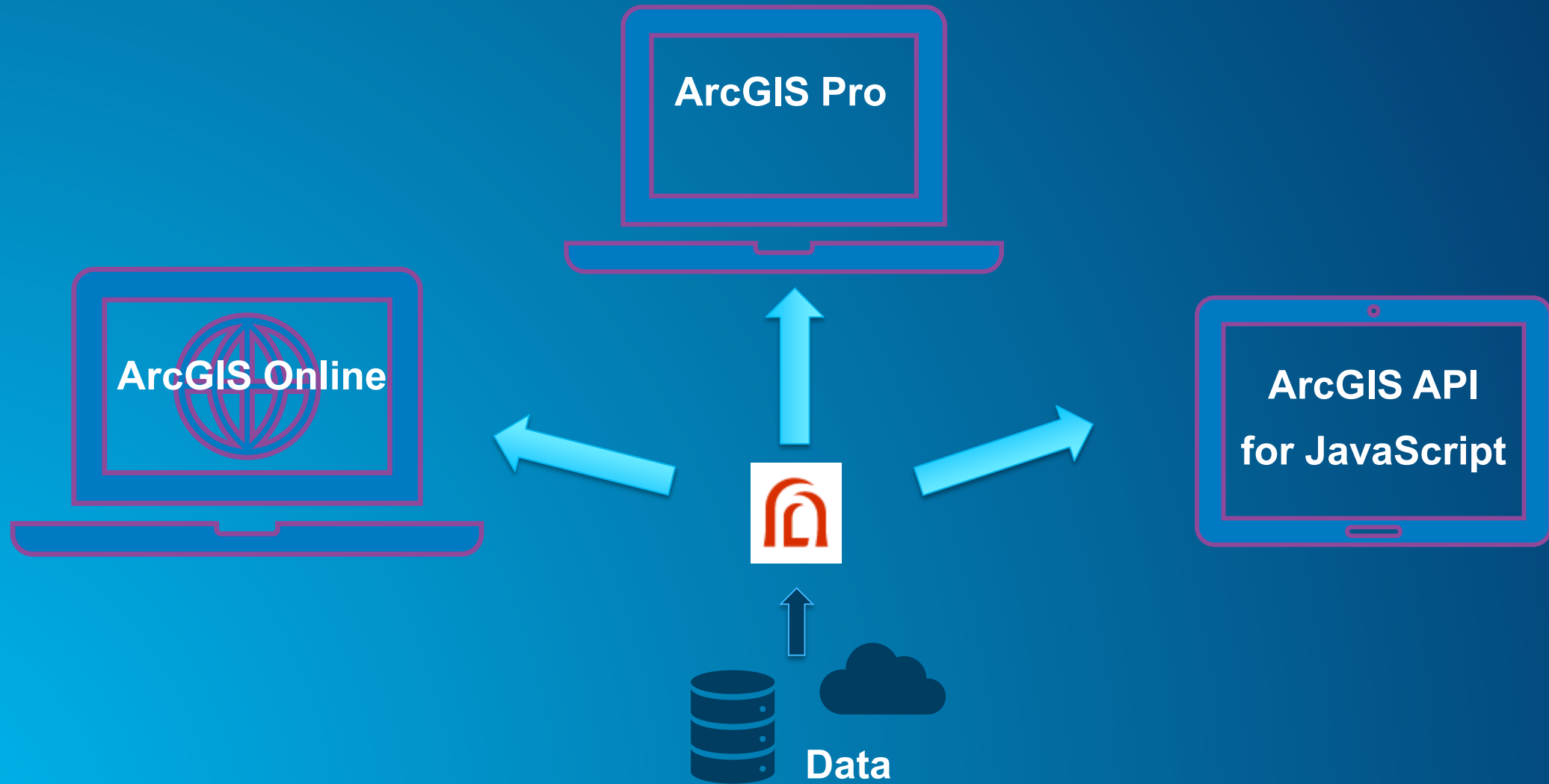
- Configuration of road signs information in popups



- Arcade used to create custom visualisation



Arcade in the platform - Demo




```

TestWorkspace_RevisedCode.html X
C: > Users > hmorton > OneDrive - ESRI (UK) Ltd > DevSummit > JS_files > <> TestWorkspace_RevisedCode.html > html > head > script > require() callback > treesBerlin
53 <script type="text/plain" id="carbonInfo">
54 //Calculate the carbon content of trees all in one line (heavily simplified version of multi-line above)
55 var carbon = Pow(($feature.Stammumfg/200/PI), 2) * $feature.BaumHoehe * 153.75 * PI;
56
57 //Concatenate the text for the popup into a meaningful sentence
58 var ifFalse = Concatenate(['This tree contains ', Text(carbon, '#,###'), 'kg of carbon.'], '');
59
60 //Return the value of carbon in kg, or 'Missing Value' is there is data missing
61 IIf(carbon == 0, 'Missing Data', ifFalse);
62 </script>
63
64
65
66 <script>
67 //Require statement containing relevant modules
68 require([
69     "esri/Map",
70     "esri/views/MapView",
71     "esri/layers/FeatureLayer",
72     "esri/renderers/UniqueValueRenderer",
73     "esri/widgets/Legend"
74 ], function(Map, MapView, FeatureLayer, UniqueValueRenderer, Legend) {
75
76     //Set basemap as topo-vector
77     var map = new Map({
78         basemap: "topo-vector"
79     });
80
81     //Create a MapView and set default zoom to Berlin
82     var view = new MapView({
83         container: "viewDiv",
84         map: map,
85         center: [13.404954, 52.520008],
86         zoom: 12
87     });
88
89     //Grab carbon info by tag to be used for popup content
90     var carbonInfo = document.getElementById("carbonInfo").text;
91     //Create popup
92     var popupTrees = {
93         title: "Carbon Storage Information",
94         expressionInfos: [{
95             name: "carbon-calculation",
96             title: "Tree Carbon Storage",
97             expression: carbonInfo
98         }],
99         content: "{expression/carbon-calculation}"
100     }
101

```

Using Arcade with the Javascript API

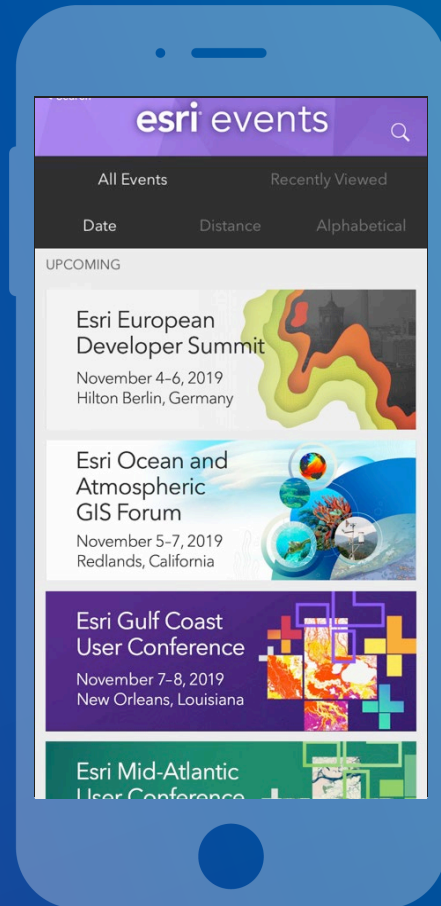
Hamish Morton

Documentation

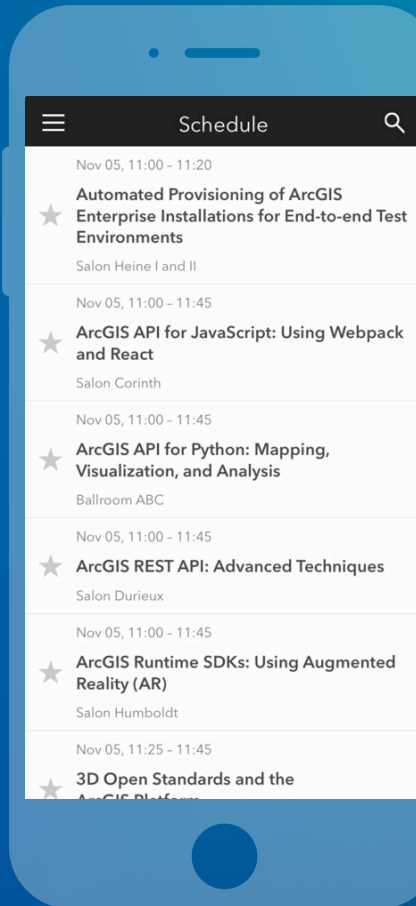
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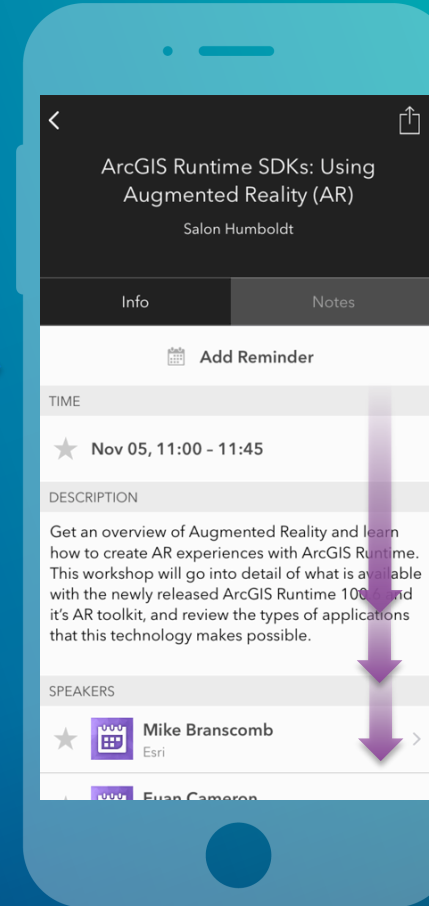
Download the Esri Events app and find your event



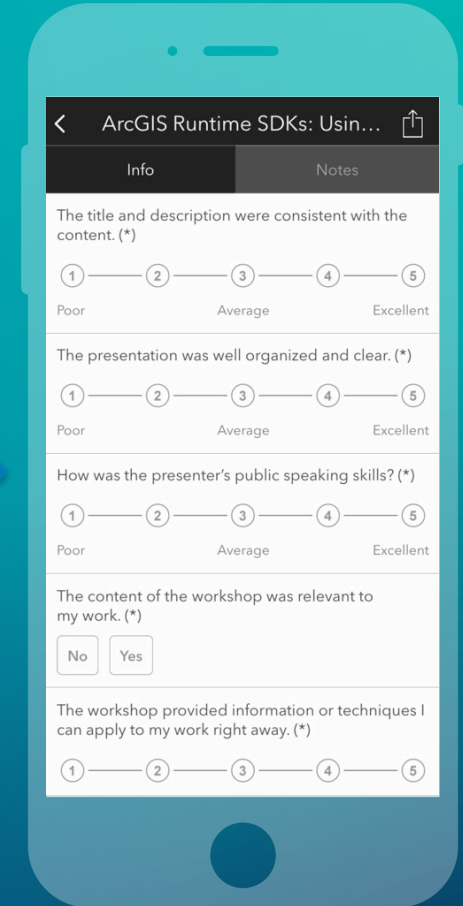
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"



Questions