

```
<arcgis-map zoom="4" center="-118,34">  
  <arcgis-search position="top-right" />  
</arcgis-map>
```

# What's New with R and ArcGIS

Josiah Parry

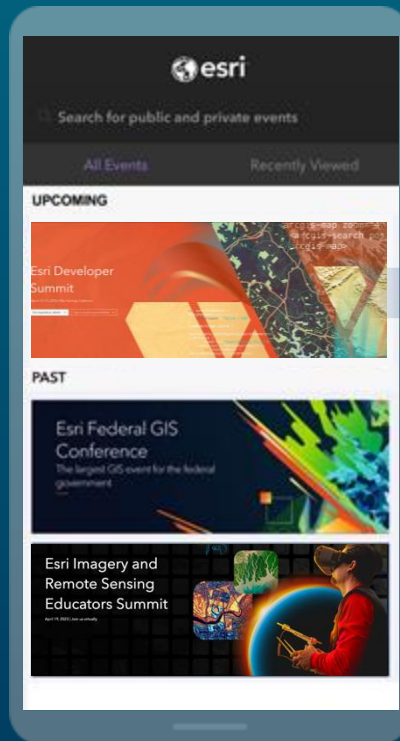
Nicholas Giner

2024 ESRI DEVELOPER SUMMIT

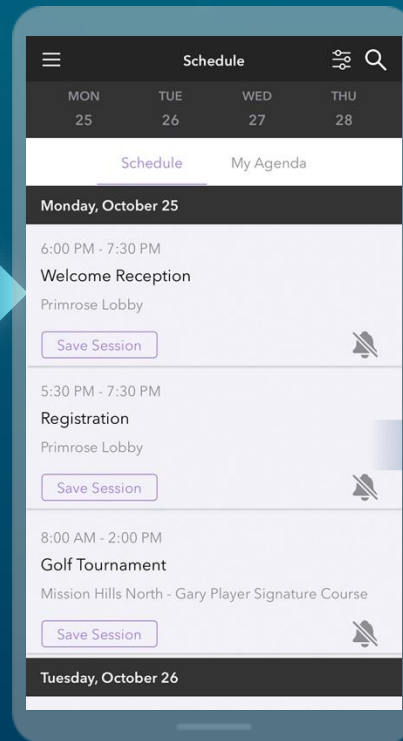
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# Please Share Your Feedback in the App

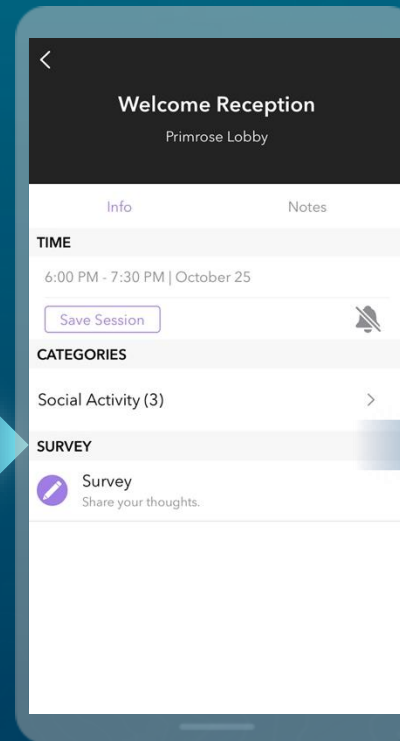
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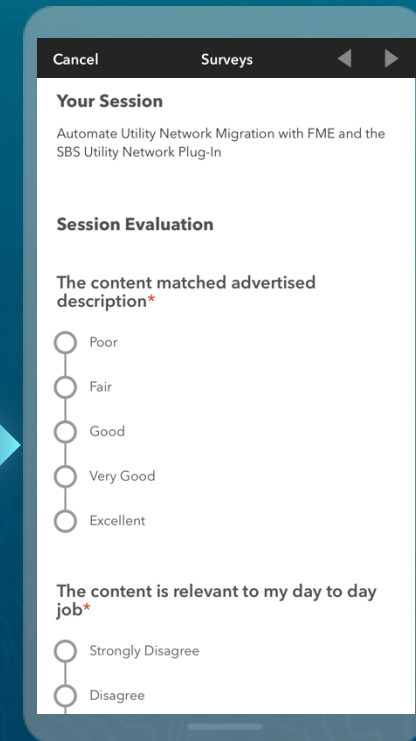
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[github.com/EsriDevSummit](https://github.com/EsriDevSummit)



[links.esri.com/EsriDevCommunity](https://links.esri.com/EsriDevCommunity)

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const layerList = new LayerList({
  view: view
});

// Add widget to the top right corner
of the view
view.ui.add(layerList, "top-right")
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# Introduction

## R-ArcGIS Bridge

**NEW!**

### **{arccgisbinding}**

- Connects ArcGIS Pro and R
- Data I/O between Pro and R
- R-driven GP tools

*Brings R to GIS analysts in Pro*

### **{arccgis}**

- Access to ArcGIS Location Services in R  
(Hosted data I/O, Geocoding, Routing, Enrichment, etc.)
- R data scientists with ArcGIS Online, Enterprise, or Platform accounts (e.g. existing subscriptions)
- Free, open-source, available on CRAN

*Brings ArcGIS to R data scientists  
where they work*





**ArcGIS API for Python**





**ArcGIS Maps SDK (JS)**

# R

SDK for R??

## **arcgis: ArcGIS Location Services Meta-Package**

Provides easy installation and loading of core ArcGIS location services packages 'arcgislayers' and 'arcgisutils'. Enabling developers to interact with spatial data and services from 'ArcGIS Online', 'ArcGIS Enterprise', and 'ArcGIS Platform'. Learn more about the 'arcgis' meta-package at <<https://r.esri.com/r-bridge-site/>>.

Version: 0.1.0  
Imports: [arcgislayers](#) (≥ 0.2.0), [arcgisutils](#) (≥ 0.2.0), [cli](#), [httr2](#) (≥ 1.0.0), utils  
Suggests: [arcpbf](#), [testthat](#) (≥ 3.0.0)  
Published: 2024-03-05  
Author: Josiah Parry  [aut, cre]  
Maintainer: Josiah Parry <josiah.parry at gmail.com>  
License: [Apache License \(≥ 2\)](#)  
URL: <https://github.com/R-ArcGIS/arcgis/>, <https://r.esri.com/arcgis/>  
NeedsCompilation: no  
Language: en  
Materials: [README](#)  
CRAN checks: [arcgis results](#)



# Broadening the reach

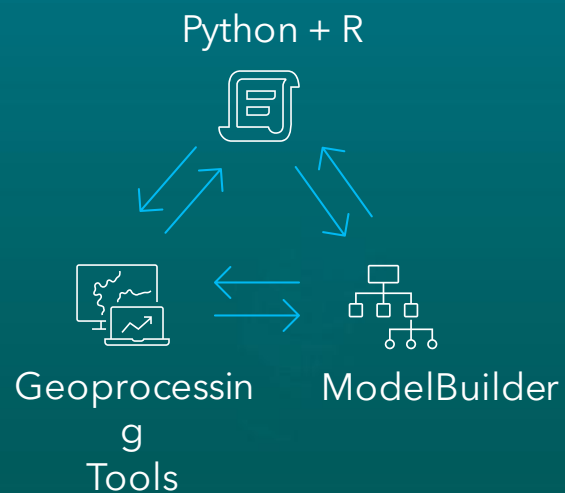
- GIS Analysts
- Data Analysts/Scientists
- Scientists?

# {arcgis}

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```

```
queryParams =  
queryParams().apply {  
  whereClause = "price > 200"  
}  
viewModelScope.launch {
```

# {arcgisbinding}



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# Roadmap

## R-ArcGIS Bridge

### {arcgisbinding}

#### {arctbx}

Build ArcGIS Toolboxes from R

#### {rcpy}

R bindings to ArcPy

### {arcgis}

#### {arcgisutils}

Authorization and  
data conversion

#### {arcgislayers}

Feature and  
Image services

#### {arcgisgeocode}

Geocoding services

#### {arcgisrouting}

Routing services

#### {arcgisenrich}

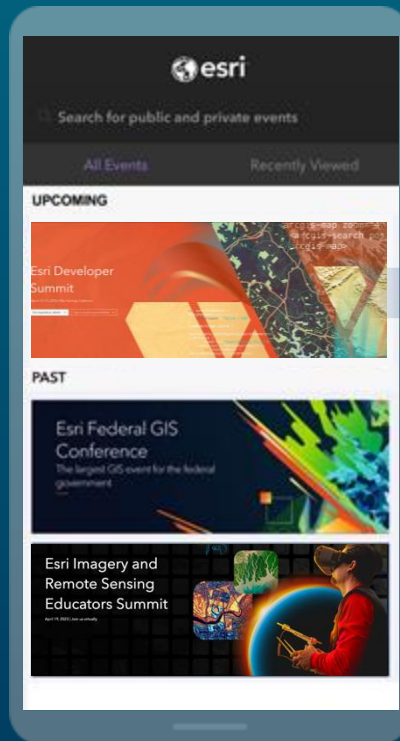
Geoenrichment

#### {arcgis ??}

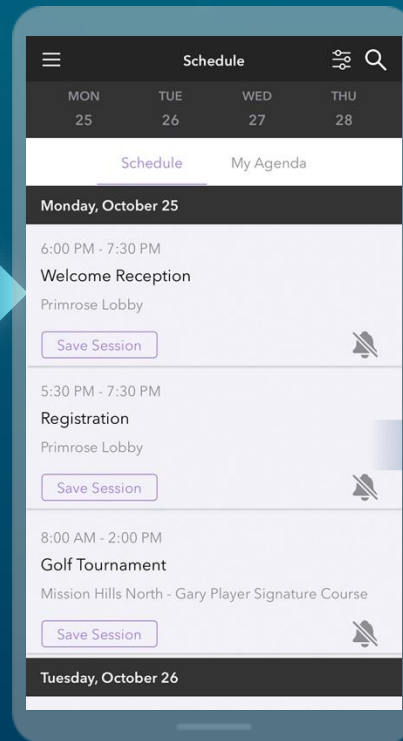
Analysis, Elevation,  
Hydrology, Mapping

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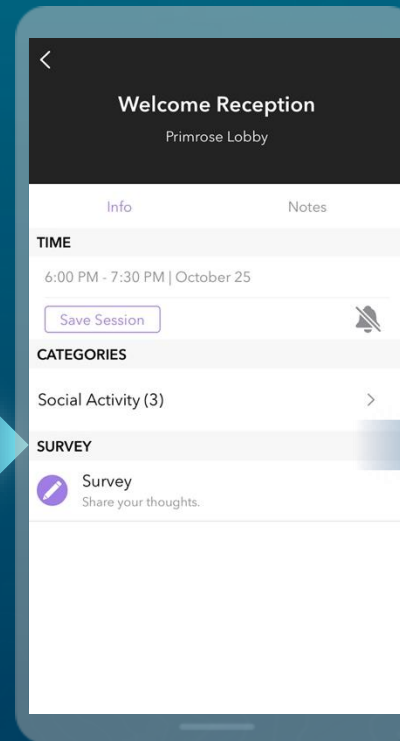
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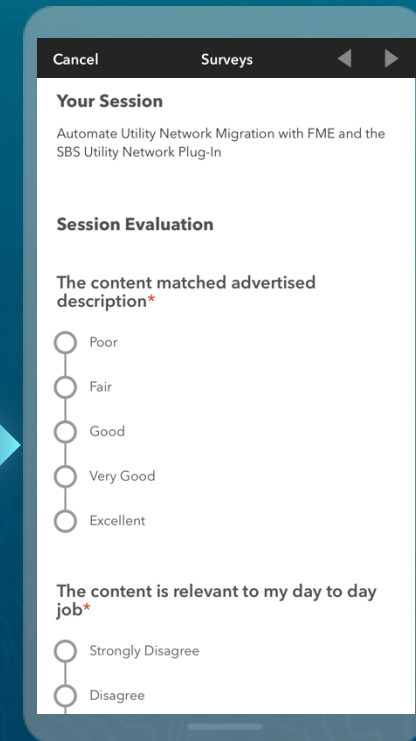
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