What's New with R and ArcGIS

Josiah Parry

Nicholas Giner

2024 ESRI DEVELOPER SUMMIT

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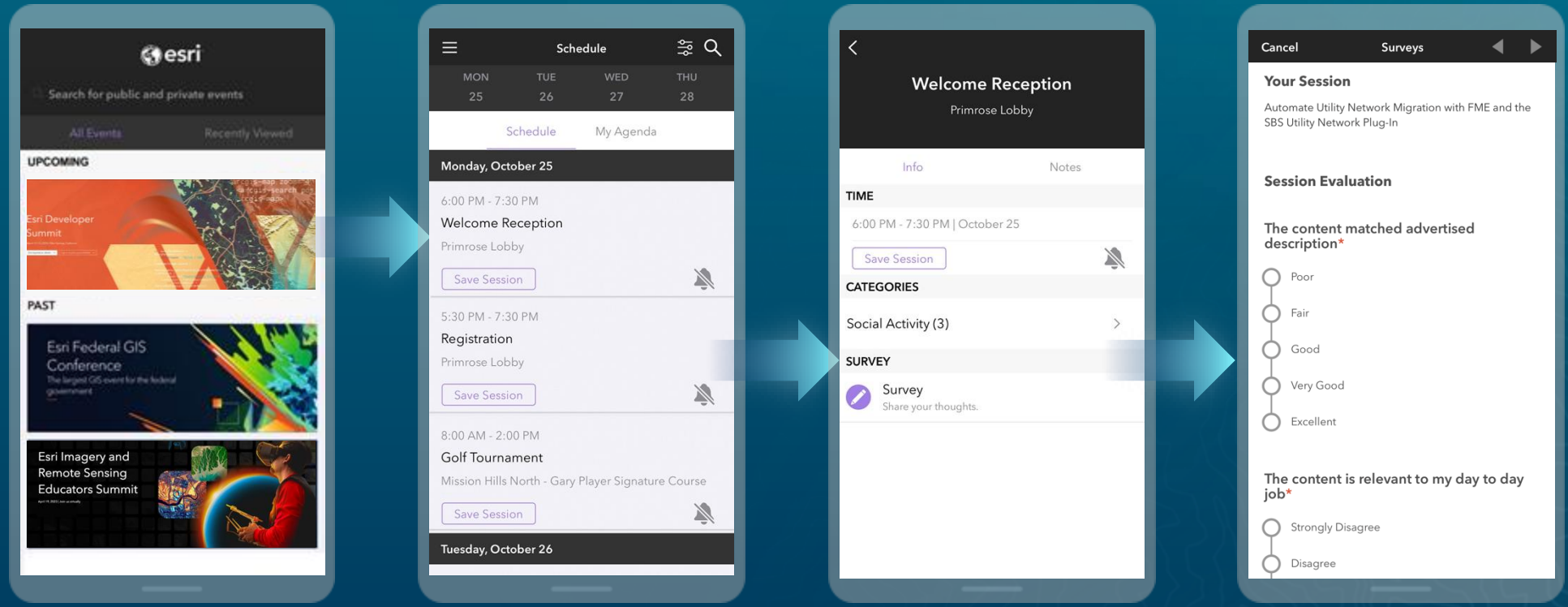

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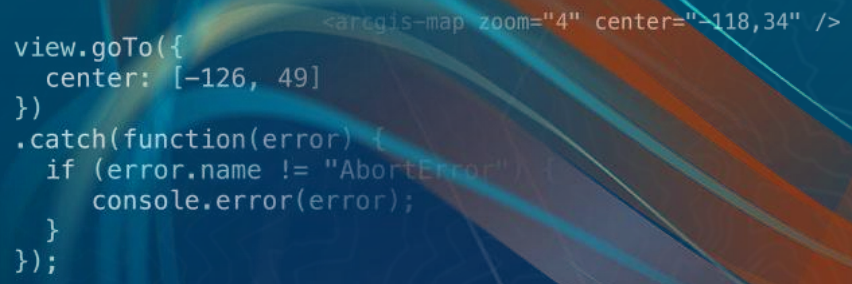

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Introduction

R-ArcGIS Bridge

{arcgisbinding}

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

Brings R to GIS analysts in Pro

NEW!

{arcgis}

- 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)

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

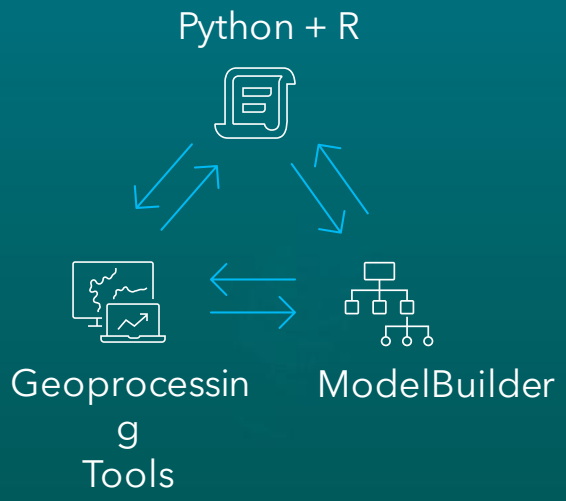
Broadening the reach

- GIS Analysts
- Data Analysts/Scientists
- Scientists?

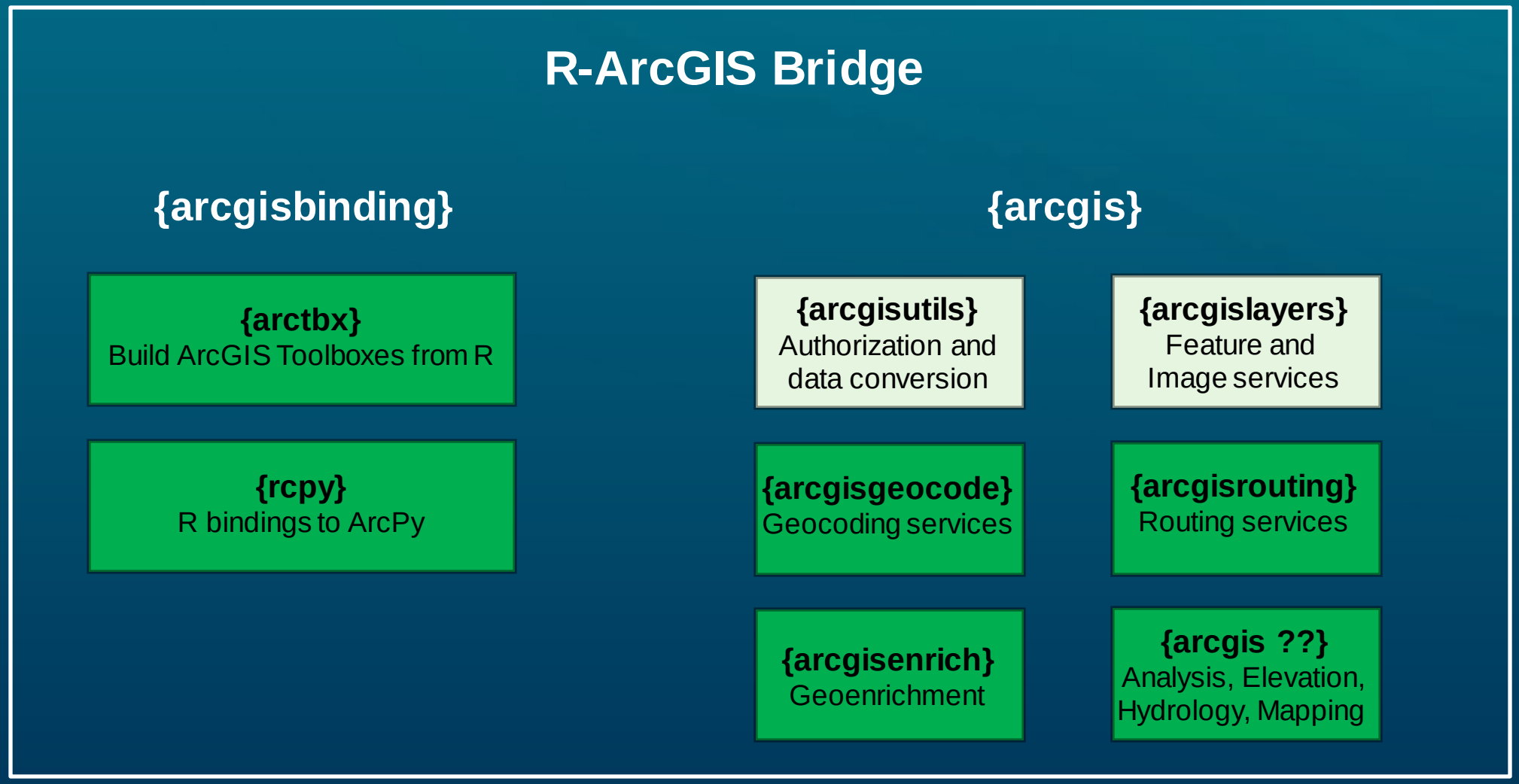
{arcgis}

view.goTo({
center: [-126, 49]
})
.catch(function(error) {
if (error.name != "AbortError") {
console.error(error);
}
});
queryParameters =
QueryParameters().apply {
= "price > 200"
}
viewModelScope.launch {

{arcgisbinding}



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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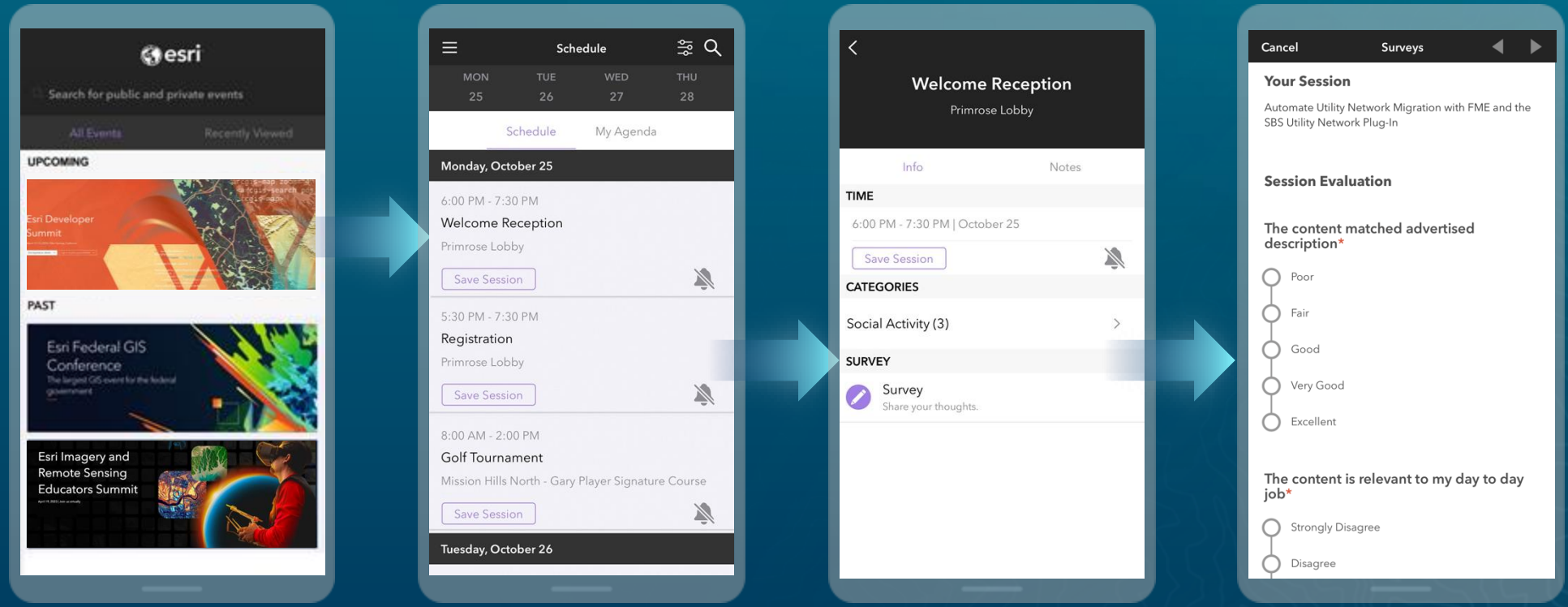

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