

Webinar

Das neue ArcGIS Runtime



Herzlich Willkommen!



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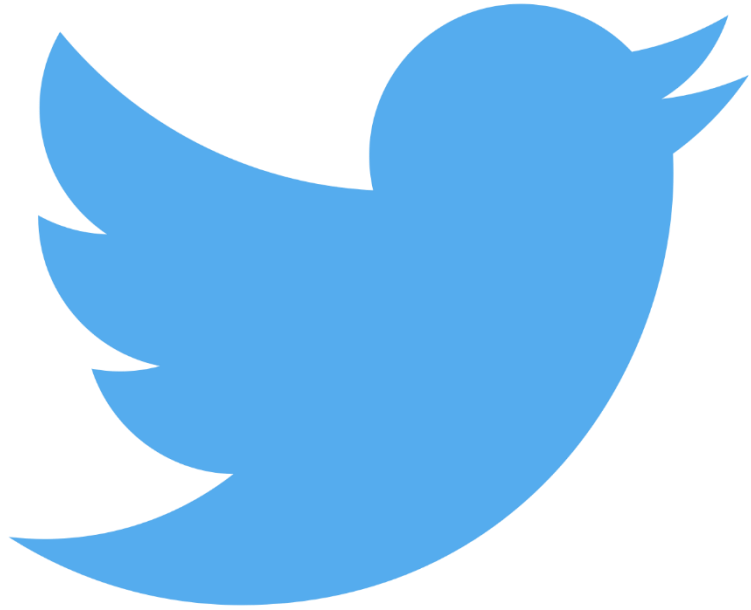
 de.linkedin.com/in/larsschmitz

 [@pilukinum](https://twitter.com/pilukinum)



Alexander Erbe, Esri Deutschland
Product Specialist, Developer

 a.erbe@esri.de

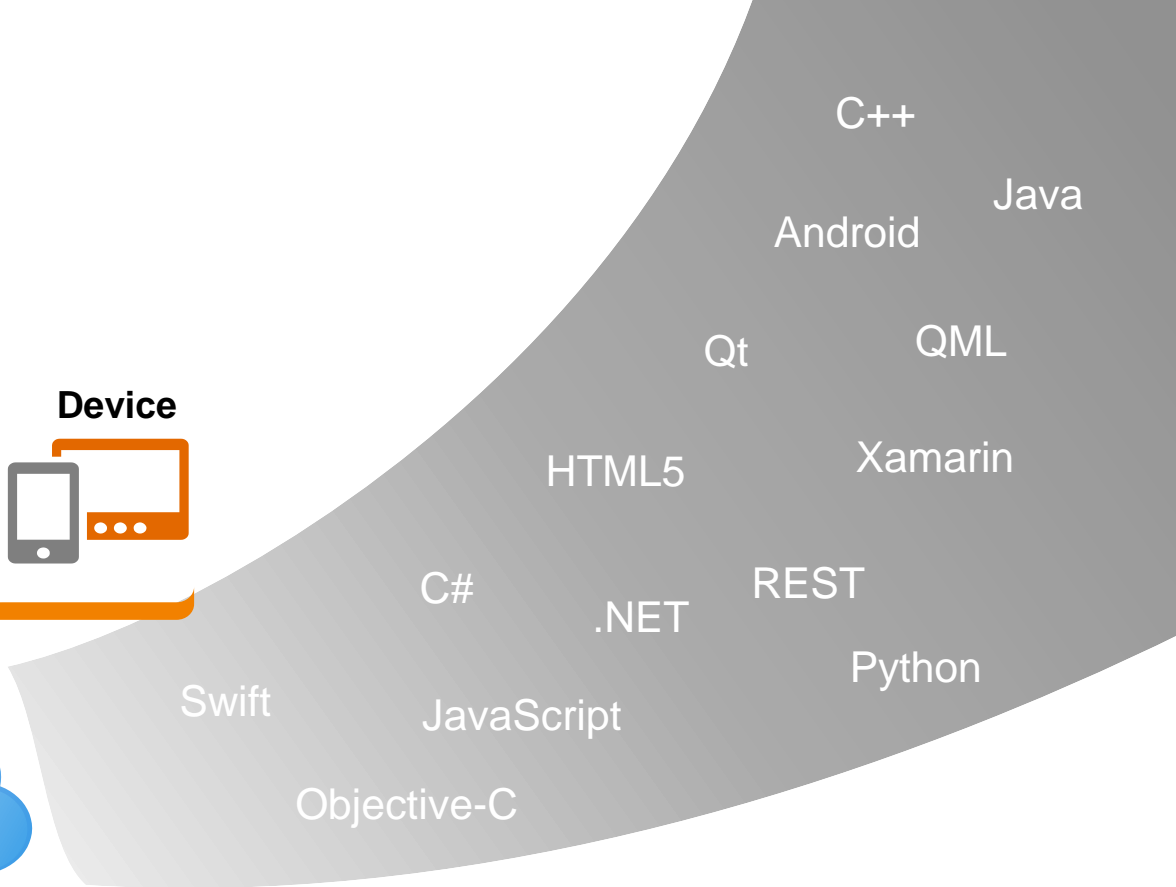
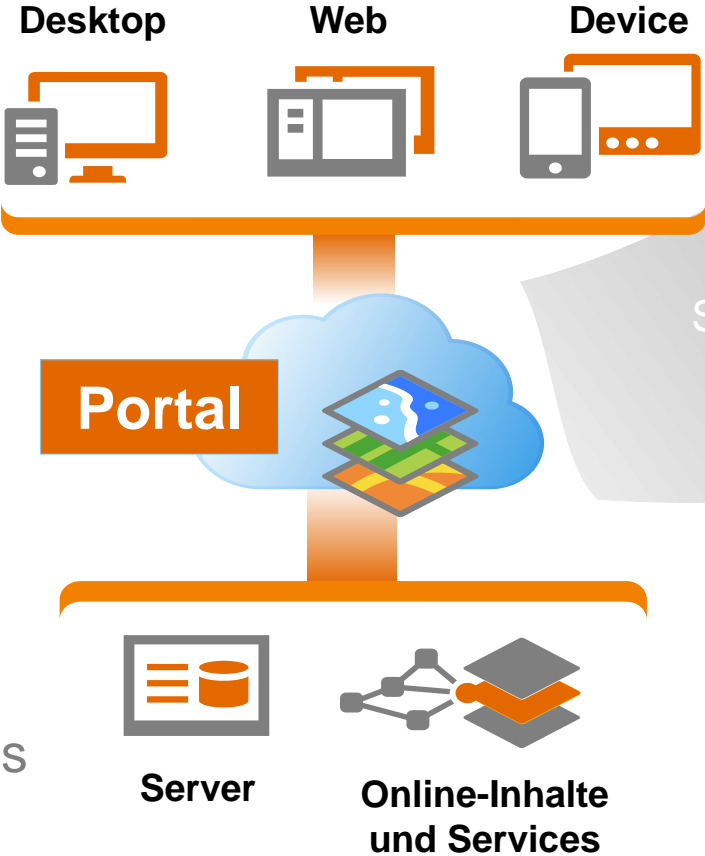


@GeoDevGermany
#geodev

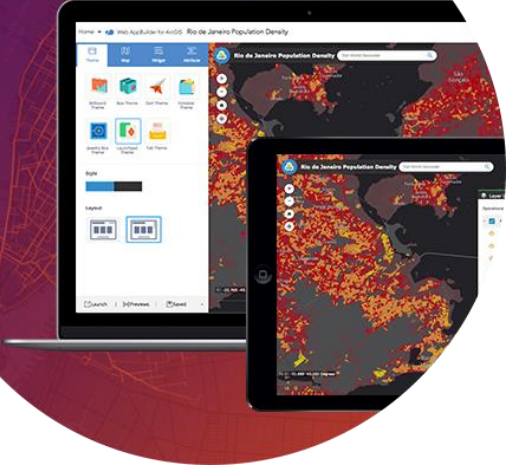

ArcGIS für Entwickler

Building Apps
Client APIs

Extending ArcGIS
Server and Desktop APIs



Entwickler können ...





Apps erstellen



REQUIREID	OBJECTID	DESCRIPTION	SPONSORID	REQUIRESTATUS	REQUIRETYPE	REQUIREDATE
100	100	Check Station	100	Completed	Station	2010-01-01
101	101	Check Station	100	Completed	Station	2010-01-01
102	102	Check Station	100	Completed	Station	2010-01-01
103	103	Check Station	100	Completed	Station	2010-01-01
104	104	Check Station	100	Completed	Station	2010-01-01
105	105	Check Station	100	Completed	Station	2010-01-01
106	106	Check Station	100	Completed	Station	2010-01-01
107	107	Check Station	100	Completed	Station	2010-01-01
108	108	Check Station	100	Completed	Station	2010-01-01
109	109	Check Station	100	Completed	Station	2010-01-01
110	110	Check Station	100	Completed	Station	2010-01-01













ArcGIS erweitern



```
lat: 45.5169068,  
long: -122.6806534
```

ArcGIS automatisieren

Umfangreiche Geo-Funktionalität

-  **Geocoding** >
Use the geocoding service to convert addresses to and from geographic coordinates. Search for places within a region and get places matching your search.
-  **Directions** >
Serve up directions, optimal routes between multiple destinations, and drive time calculations around a point of interest.
-  **GeoEnrichment** >
Given a point, area, or street address, find demographic and contextual data about the study area such as average income, household size and population density.
-  **Ready-to-use Content** >
Use a rich collection of ready-to-use basemaps, demographic maps and imagery in your app.
-  **Data Visualization** >
Create thematic interactive maps that allow your users to explore and understand their geographic data.
-  **Data Storage** >
Host your own geographic data in the cloud and make it available as a REST service. Store custom rendering rules, metadata, or create hosted map tiles.
-  **Work Offline** >
Use your data offline to view maps, search, find routes, and then sync edits when reconnected.
-  **Open & Interoperable** >
Connect your app with standards-based open services and open data formats.
-  **Real-time Processing** >
GeoEvent Processor provides an on-premise industrial-grade event notification system for your organization.
-  **Elevation Analysis** >
Query a worldwide dataset of elevation data to get answers to questions about watershed, viewshed and elevation summaries.
-  **Spatial Analysis** >
Spatial Analysis allows you to make more empowered decisions with your data. Sort, organize and empower your organization with pattern detection and trend assessment.
-  **Imagery** >

The background of the image features a dark gray grid of thin lines. Scattered across this grid are several small, semi-transparent geometric shapes: blue hexagons, green hexagons, and small green and blue dots. The text "ArcGIS Runtime" is centered in a bold, white, sans-serif font.

ArcGIS Runtime

Demo

quantum-systems.com



The screenshot displays the Quantum GroundControl software interface. At the top, the title bar reads "Quantum GroundControl" and the menu bar includes "File", "Debug", and "Info". The status bar shows various flight metrics: "AGND 0m", "Airspeed 0.0m/s", "Ground speed 0.0m/s", "To 0", "0.0V", "Bytes: 0", "Received: 0", "Lost: 0", "CRC Errors: 0", and a COM port set to "COM3".

The main display is an aerial map with a green dashed flight path consisting of 19 numbered waypoints (1-19) connected by arrows. A green drone icon is positioned at the start of the path (waypoint 1). A "Property Editor" panel on the right side of the map shows the following settings:

- Type: Fly Over
- Altitude [AGL]: 114 m
- JumpTo: 0
- Cycle: 0

Navigation and control icons are visible on the left and top-right sides of the map. A search box at the bottom left contains the text "Enter Address Information" and "Trier, Rheinland-Pfalz, Deutschland" with a "Find" button. The Esri logo is located in the bottom left corner of the map area.

ArcGIS Runtime SDKs

developers.arcgis.com/arcgis-runtime

- + Eine Familie von mehreren nativen SDKs
 - > Entwicklung von fokussierten Geo-Anwendungen
 - > Einbindung von Geo-Funktionalität in bestehende Anwendungen
- + Leichtgewichtig, schnell und leistungsfähig



ArcGIS Runtime Endgeräte



PHONE



TABLET



LAPTOP

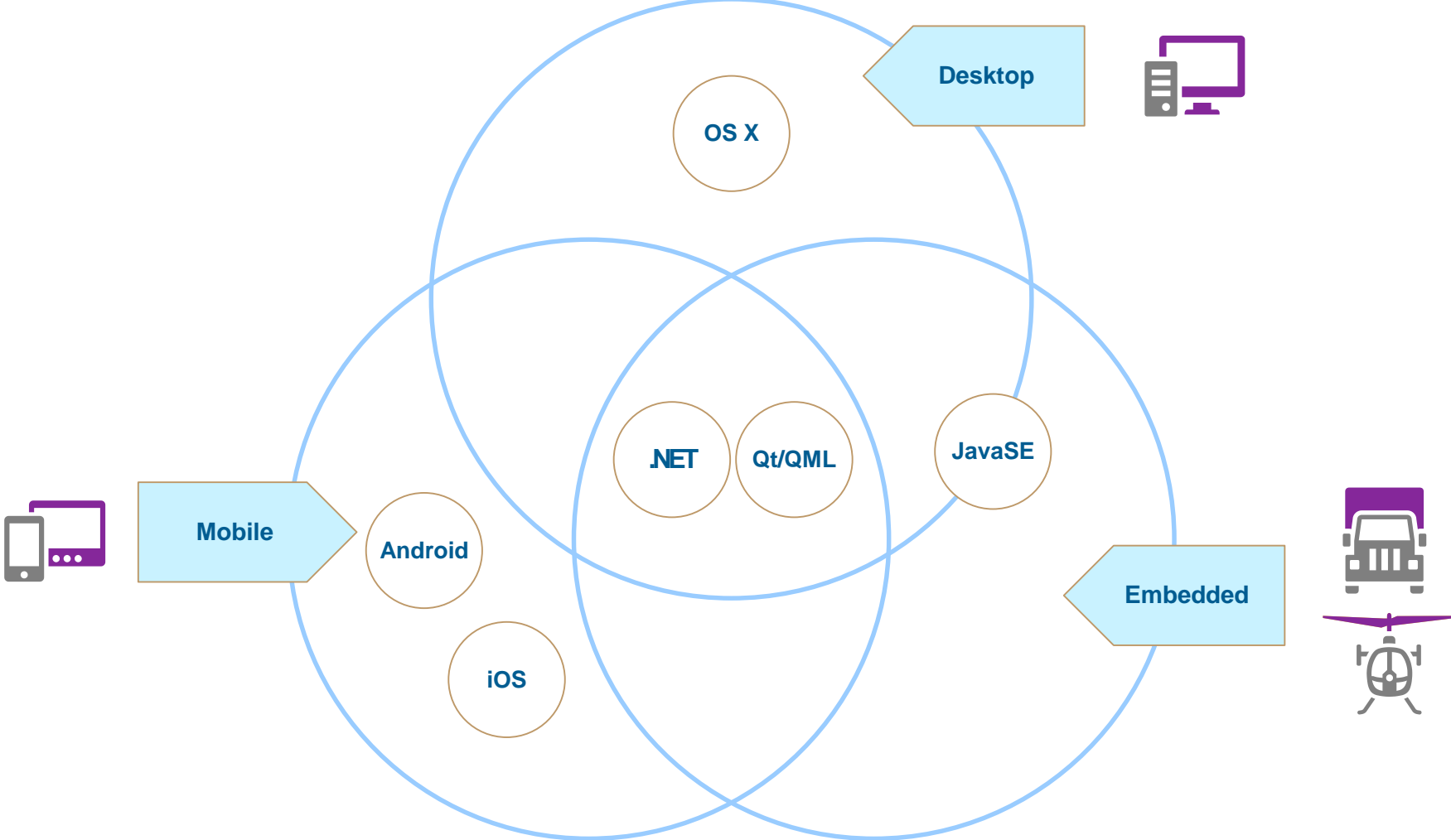


DESKTOP



EMBEDDED

ArcGIS Runtime SDKs für verschiedene Zielplattformen



Quartz?

Version 100.0

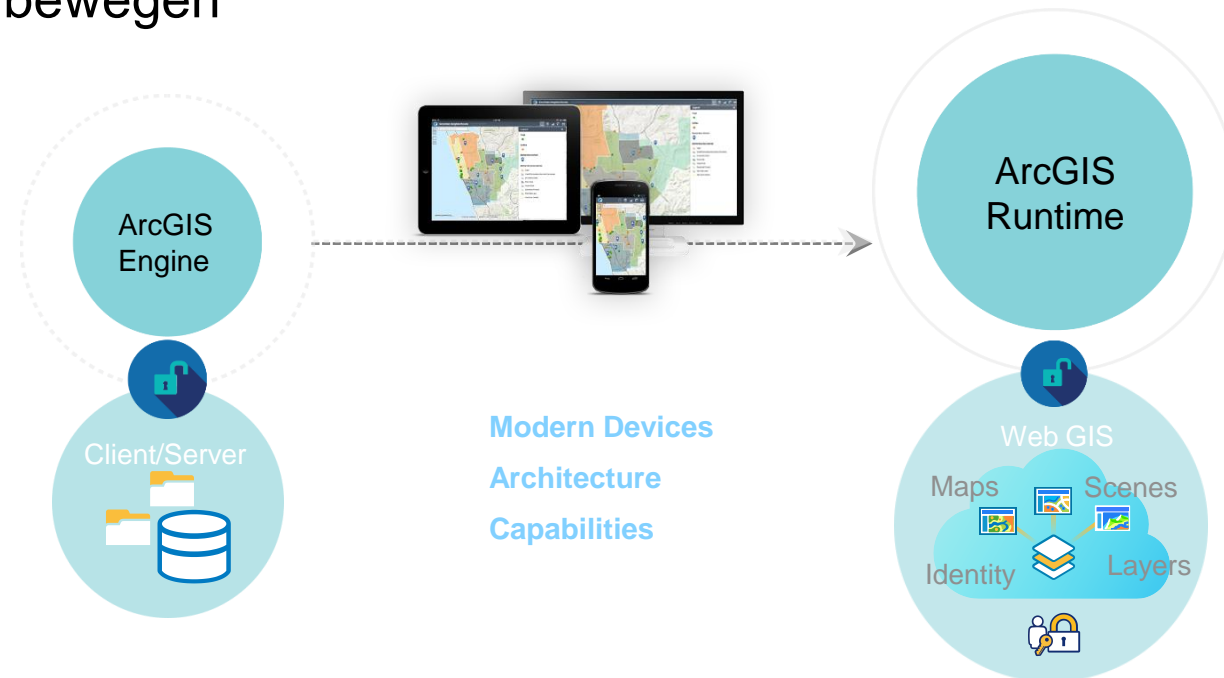


ArcGIS Runtime v100.0

Motivation

- + ArcGIS Funktionalität vollständig nutzen
- + Web GIS unterstützen
- + ArcGIS Engine Entwickler zu ArcGIS Runtime bewegen
- + ArcGIS Runtime SDKs harmonisieren

**Building a platform for app developers
for the future!**



Neuerungen auf einen Blick



NEW APIs



CONTENT



SYMBOLLOGY



3D



CROSS PLATFORM

Architektur

+ Neue interne Architektur

- > Erweiterter C++ runtime core plus common API

+ Redesign aller plattformspezifischen APIs

- > Erlaubt neue Funktionen und Möglichkeiten
- > Einfacher zu nutzen
- > Alle APIs sind weitestgehend einheitlich
- > Robust und performant

+ Einfache Migration von ArcGIS Runtime 10.2.x nicht möglich

Map Class

The map contains layers and additional properties and can be displayed in a MapView.

↳ Inheritance Hierarchy

System.Object
Esri.ArcGISRuntime.Mapping.Map

Namespace: Esri.ArcGISRuntime.Mapping

Assembly: Esri.ArcGISRuntime (in Esri.ArcGISRuntime.dll) Version: 100.0.0.0

↳ Syntax

```
C# VB  
public class Map : INotifyPropertyChanged, ILoadable
```

The Map type exposes the following members.

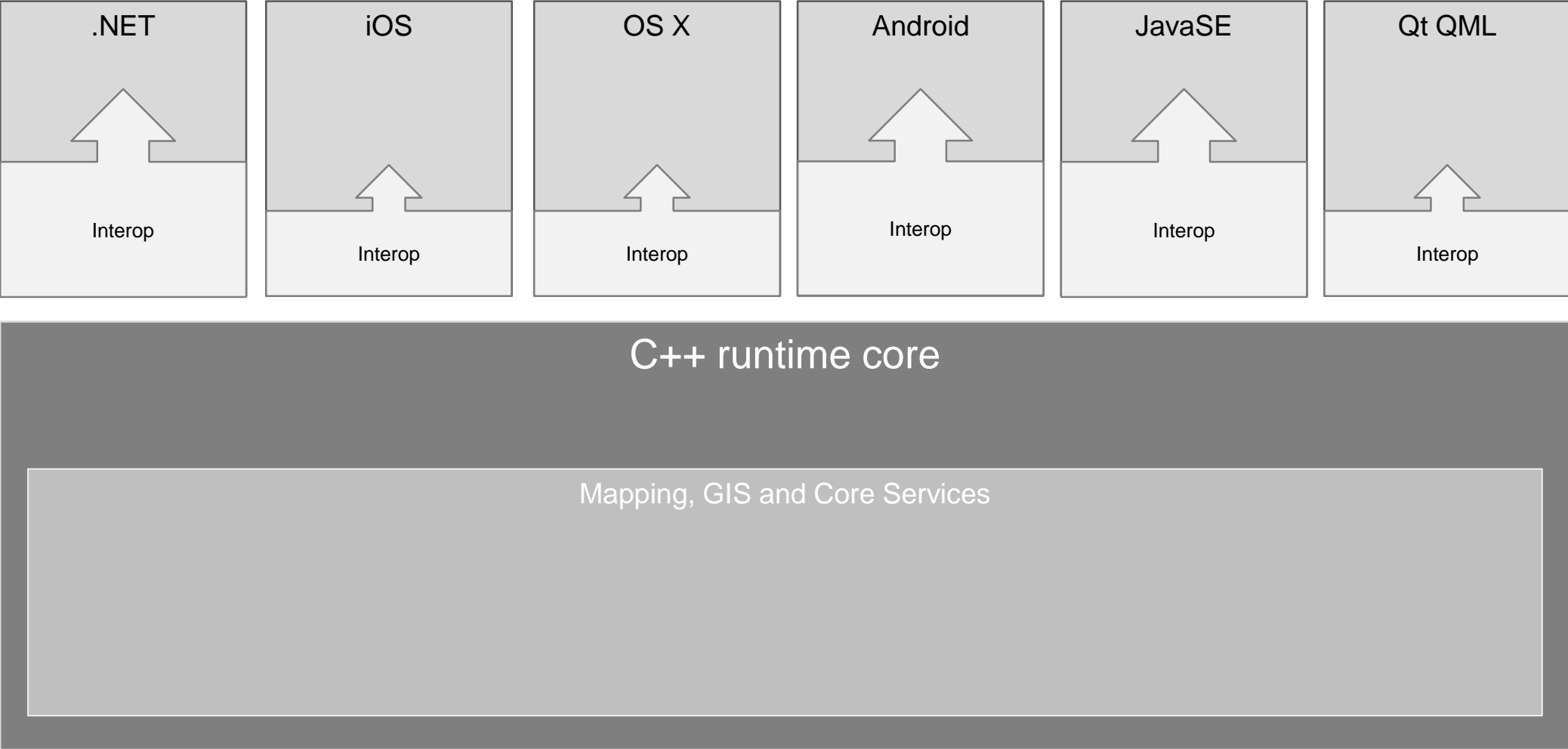
↳ Constructors

Name	Description
Map()	Initializes a new instance of the Map class.
Map(Uri)	Initializes a new instance of the Map class with a Uri to a web map.
Map(Basemap)	Initializes a new instance of the Map class with a Basemap and an initial viewpoint.
Map(Item)	Initializes a new instance of the Map class with an ArcGIS Item.
Map(SpatialReference)	Initializes a new instance of the Map class.
Map(BasemapType, Double, Double, Int32)	Initializes a new instance of the Map class with a Basemap and an initial viewpoint.

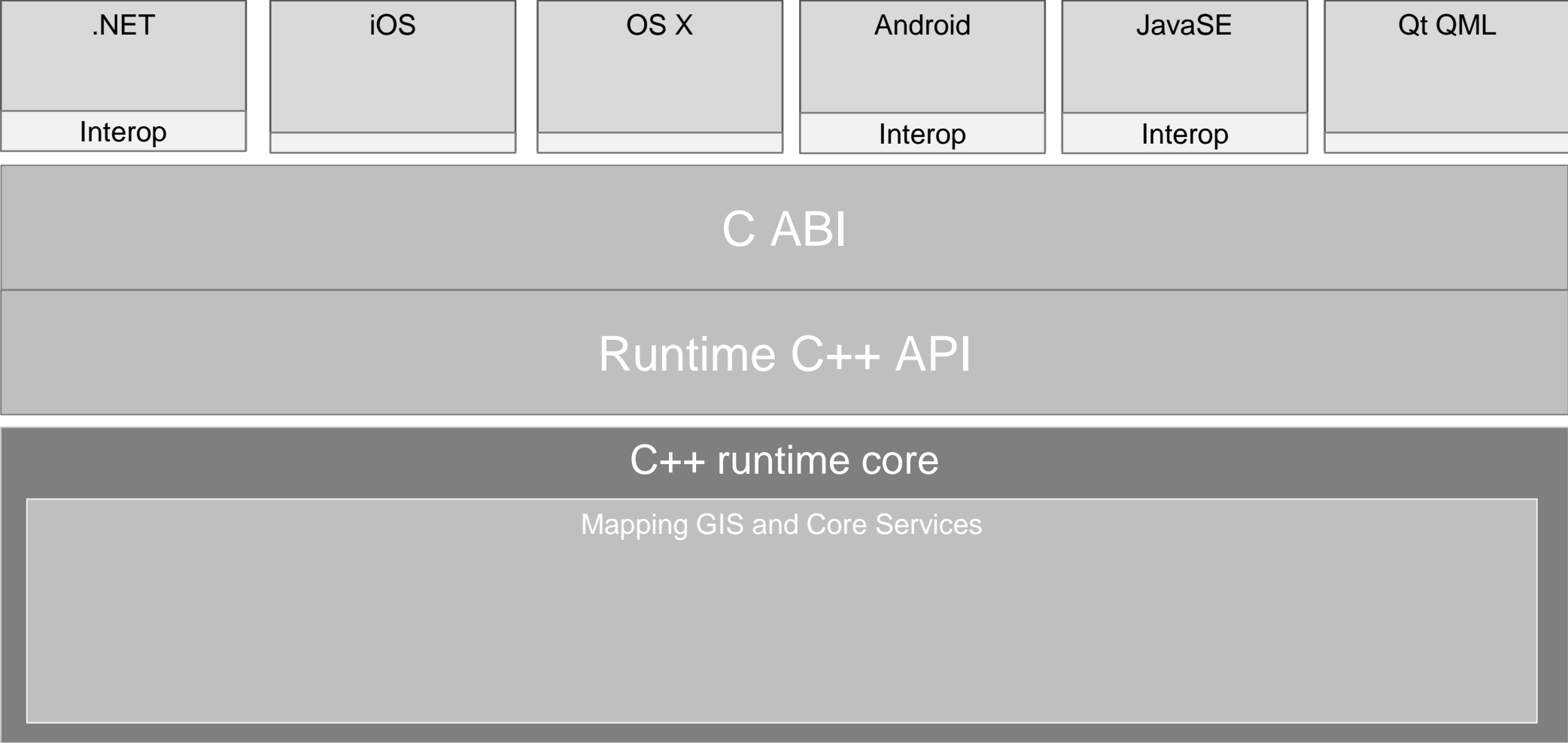
Top

↳ Properties

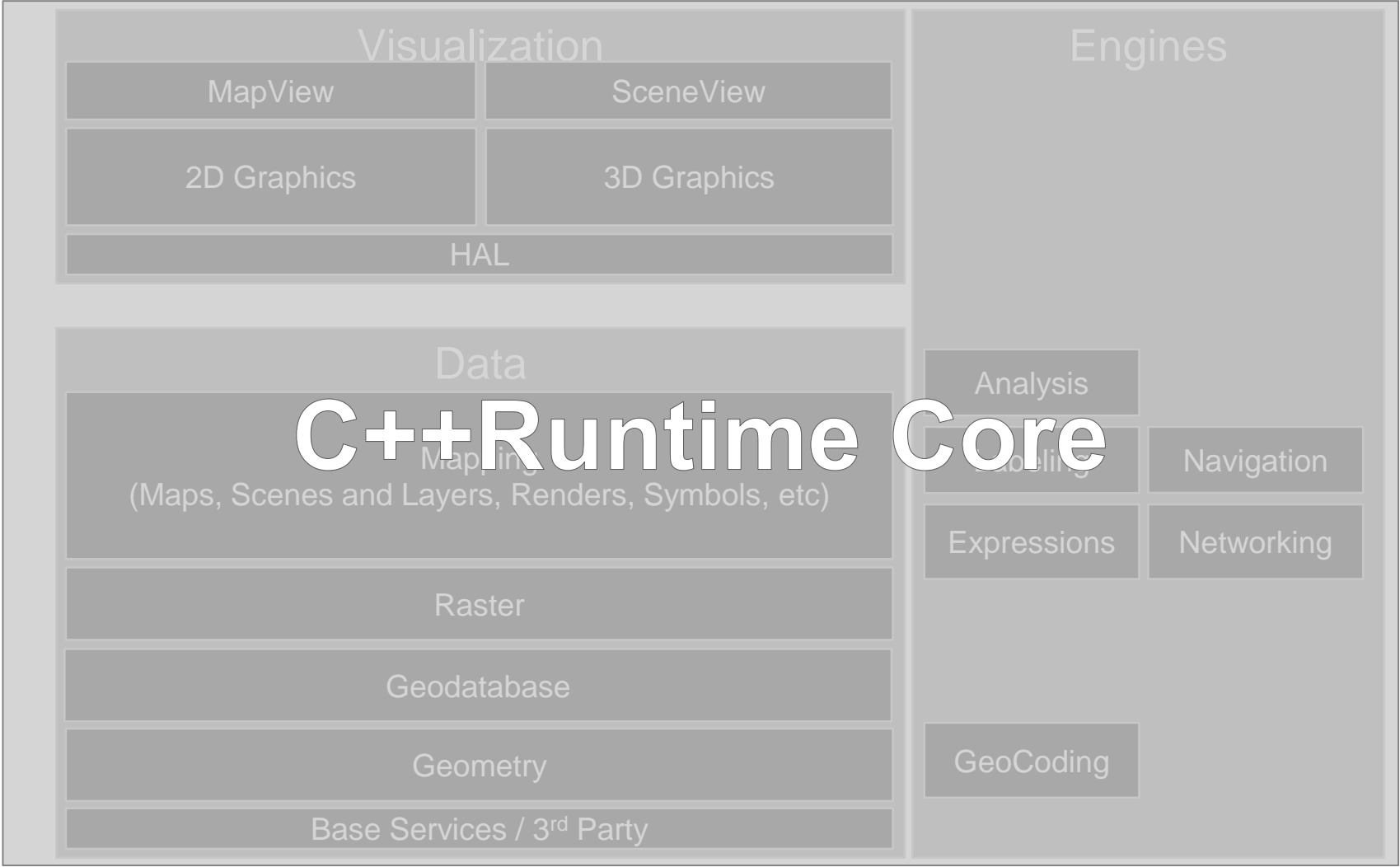
ArcGIS Runtime v10.2.x - Architecture Internals



ArcGIS Runtime v100.x - Architecture Internals

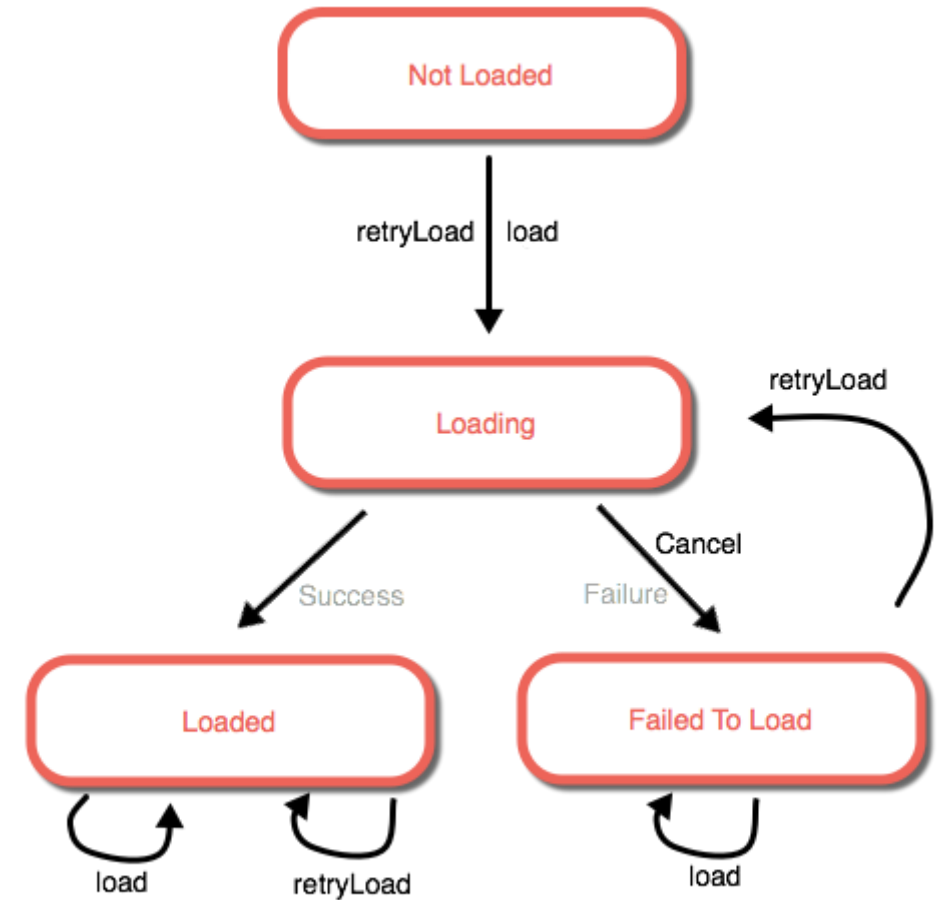


ArcGIS Runtime v100.x - Core Internals



Loadable Pattern

- + Generisches API für verschiedene Typen von Klassen
- + Gibt Kontrolle über asynchrones Laden von Daten
 - > Einfach zu Überwachen
 - > Erhöht Performance und verringert Fehler
- > **load()**
- > **retryLoad()**
- > **cancelLoad()**
- > **loadStatus**
- > **loadError**



Local Server

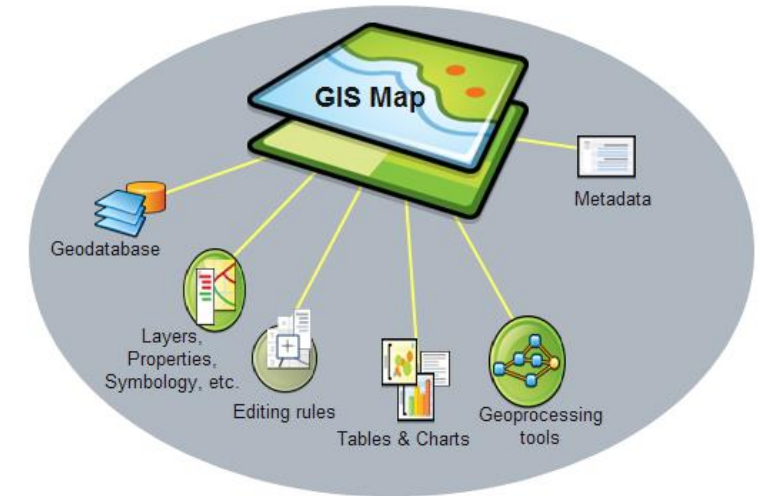
- + Unterstützt ArcGIS Desktop Packages
- + Neue Tools:
 - > Unterstützung von MXD und LYR Files
 - > Data Management
- + Eigenständiges SDK für ArcGIS Runtime Desktop SDKs
 - > .NET, Java und QT



Mapping

Wo kommen Maps her?

- > Portal (Web Maps)
- > ArcGIS Pro (Mobile Map Packages)
- > Erstellt im Code (können lokal oder im Portal gespeichert werden)
- > Lokal von der Festplatte (LocalItems)



Maps and Layers from local data

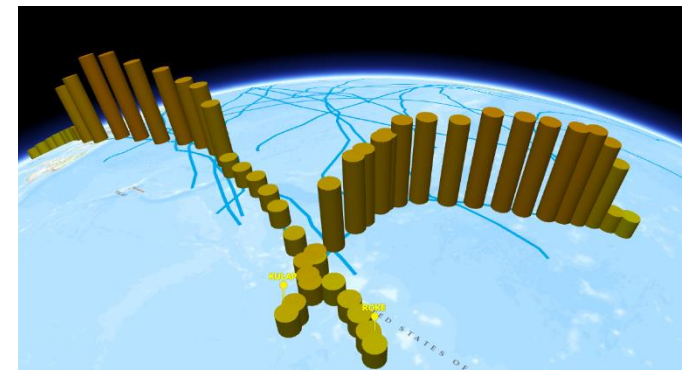
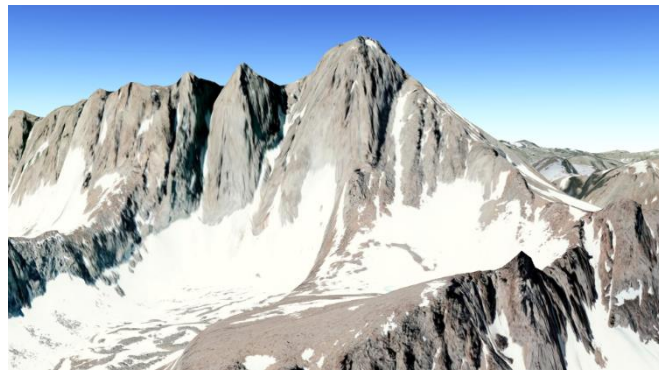
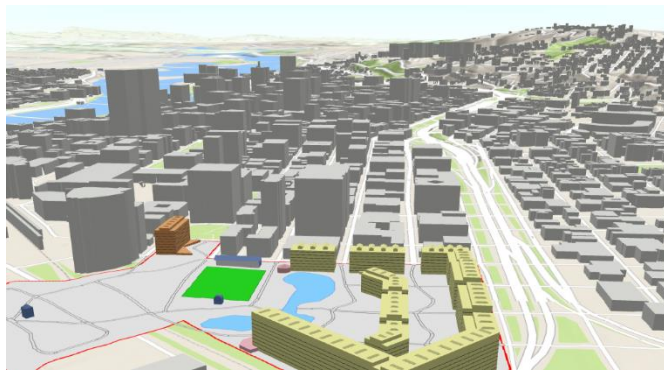
- + Mobile Map Packages, Scene Layer Packages
- + Raster data (read only)
- + Vector and raster basemap layers

- + *Vector data (read and write)*
- + *KML and Shape (read and write)*

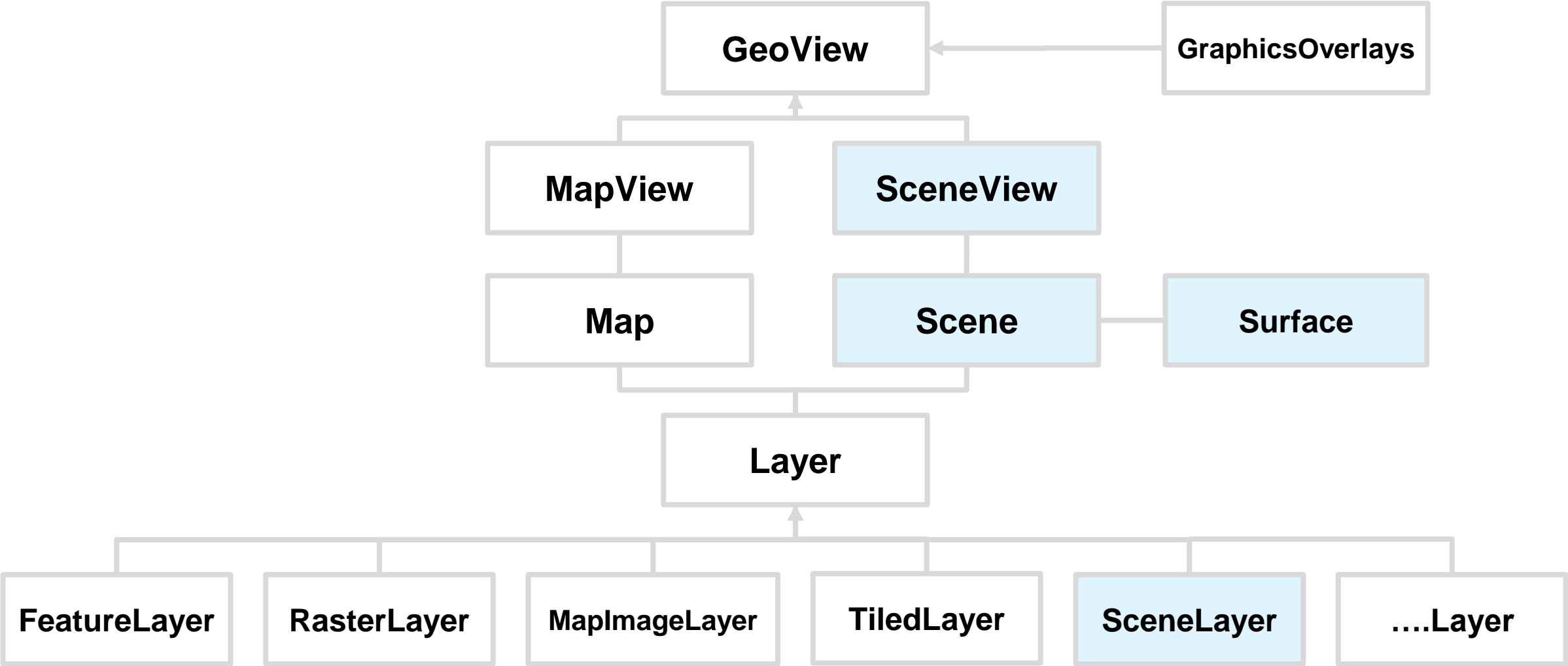


3D

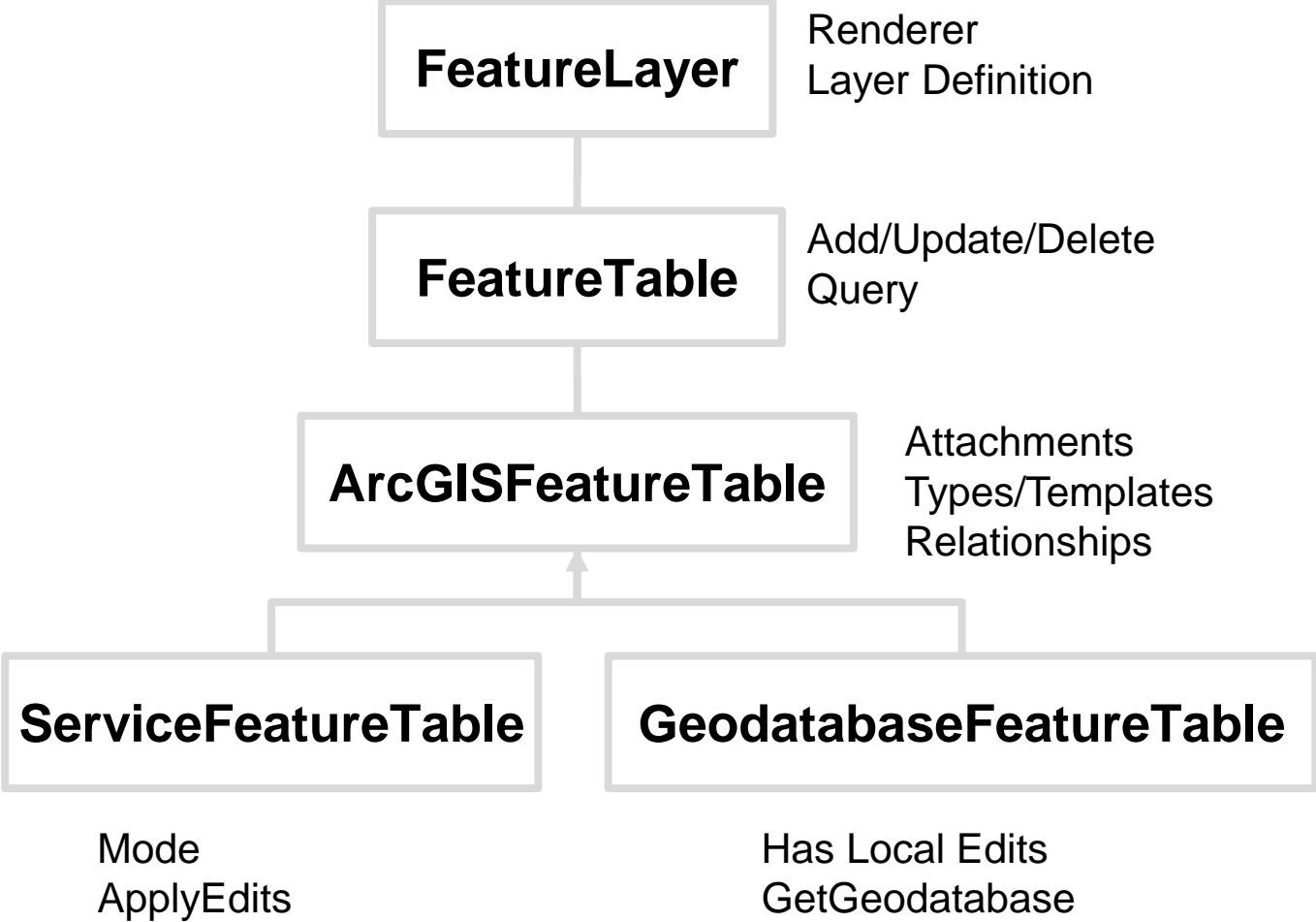
- + 3D → Scenes | 2D → Web Map
- + Scenes funktionieren in der ganzen Plattform
 - > ArcGIS Pro, ArcGIS Online, ArcGIS API for JavaScript, ArcGIS Runtime
- + Scenes bestehen aus
 - > Scene Layers, Elevation Sources, 2D Map Layers



Mapping 2D / 3D



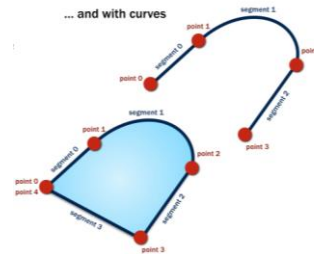
FeatureLayer



Weitere Neuerungen

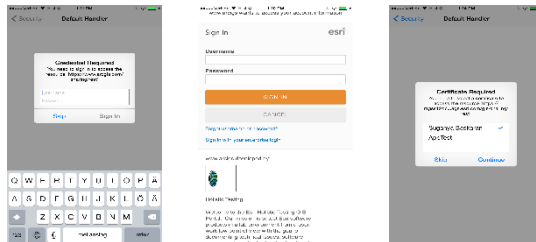
+ Geometry API

- > Verbesserte Architektur und Performance
- > Immutable Geometries
- > Unterstützt jetzt Curves



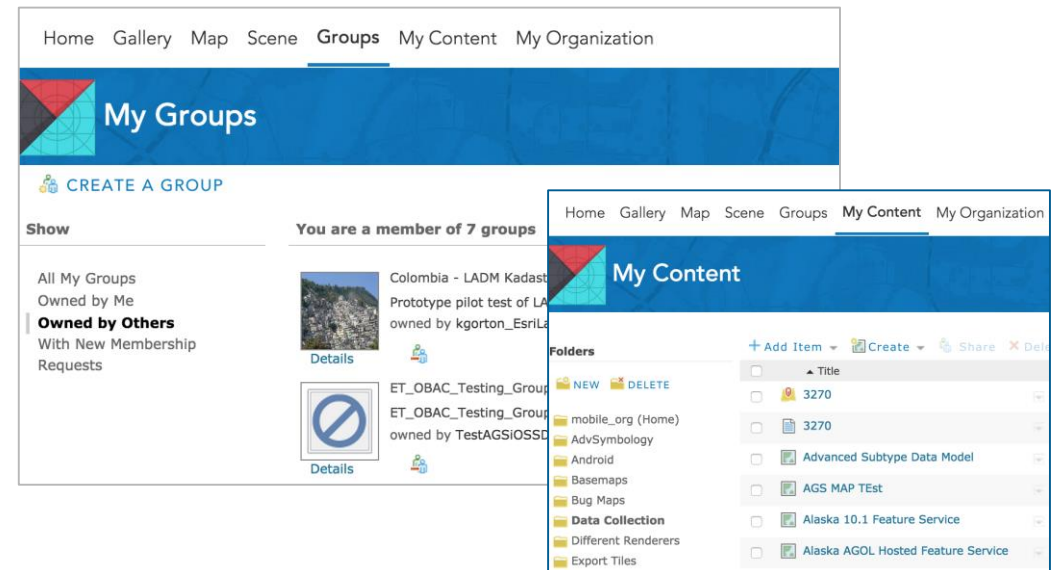
+ Authentication Manager

- > Go-to class for all security related configuration



+ Portal API

- > Gateway zum Portal Information Model
- > access, use, create, modify and share content



ArcGIS Runtime v100.x Feature Demo

The image shows a Visual Studio IDE with a C# code file named `MapViewModel.cs`. The code defines a `MapViewModel` class with a `GraphicsOverlays` collection and a `ChangeMapView` method that switches between 2D and 3D views. The 2D view shows a map of Berlin with orange feature markers. The 3D view shows a 3D perspective of the same area. A control panel on the right allows switching between 2D and 3D views and selecting different map services.

```

MapViewModel.cs
{
    2 references
    public MapViewModel()
    {
        GraphicsOverlays.Add(new GraphicsOverlay());
    }

    private Map _map = new Map();
    private Scene _scene = new Scene();
    private GraphicsOverlayCollection _graphicsOverlays = new GraphicsOverlayCollection();
    private BackgroundGrid _backgroundGrid = new BackgroundGrid(Colors.White, Colors.Black);

    10 references
    public void ChangeMapView(DemoType demoType)
    {
        #region 2D

        1 reference
        private async void CreateBlank2DMap()
        {
            GraphicsOverlays[0].Graphics.Clear();

            try
            {
                // connect to ArcGIS Online (default portal if no URL is passed to ArcGISPortal)
                ArcGISPortal arcGisOnline = await ArcGISPortal.CreateAsync();
            }
        }
    }
}
    
```

Quartz

2D

Rotate 2D

- Web Map
- mmpk
- Vector Tile Service
- vtpk Switzerland
- vtpk Oberbayern
- local raster (.ntf)

3D

- blank globe
- Scene Layer Service
- Scene Layer Package
- FeatureLayer 2D/3D

Licensed For Developer Use Only

Powered by Esri

The background features a dark gray field with a network of thin, light gray lines connecting various nodes. The nodes are represented by small, hollow hexagons in shades of blue and green, and small solid dots in the same color palette. The overall aesthetic is technical and digital.

ArcGIS Runtime Deployment

ArcGIS Developer Program

developers.arcgis.com/announcements

Bietet Entwicklern ein einheitliches und vollständiges Angebot für den Erfolg mit ArcGIS.



APIs und SDKs



Credits



Templates und App Builder



Dokumentation und Beispiele



Developer Community



Beta Software



ArcGIS Developer Subscription

ArcGIS Developer Subscription - Pläne

developers.arcgis.com/pricing

Essentials



*“Essential”
App
Development
Tools*

Builder



*Rapid App and
cross platform
Development
Tools*

Professional



*Extend
Desktop/Enterprise*

Premium



*Extend Desktop
at the
Enterprise
Level*

Enterprise



*All the
Development
tools you can
handle*

ArcGIS Runtime Deployment


developers.arcgis.com/arcgis-runtime/licensing

ArcGIS for Developers | [Get Started](#) | [Documentation](#) | [Features](#) | [Pricing](#) | [Support](#)

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ArcGIS Runtime / [Licensing](#)

Licensing Your ArcGIS Runtime App

 **Note:** This page details licensing ArcGIS Runtime applications at version 100.x. To license ArcGIS Runtime apps with the 10.2.x ArcGIS Runtime SDKs refer to the guides for [Android](#), [iOS](#), [.NET](#), [Java](#), [macOS](#) and [Qt](#).

As a member of the [ArcGIS Developer Program](#), you have a free [ArcGIS Developer Subscription \(Essentials Plan\)](#). With this you can download and install any ArcGIS Runtime SDK and immediately have access to all the functionality of the APIs for development purposes. You can become a [member of the developer program](#) for free. There is no cost associated with developing apps using a Runtime SDK and no need to authorize your development machine. However, any map or scene in your app will be watermarked and debug output messages may be generated at runtime to indicate your app is licensed for developer use only.

Before you deploy your ArcGIS Runtime app into production, you are required to license it. Esri provides four ArcGIS Runtime license levels: Lite, Basic, Standard, and Advanced as described below. When you use ArcGIS Online in your app and use more than 50 credits per month or generate revenue, you need to purchase a [deployment plan](#). Refer to our [FAQ](#) for more information on the terms and conditions.

Two options are available to set the license level for your app: license key and Named User.

Your ArcGIS Runtime Lite license key

[Sign in to see your ArcGIS Runtime Lite license key](#)

Licensing and deployment

Use these SDK-specific instructions for licensing and deploying your app.

- [Android](#)
- [iOS](#)
- [Java](#)
- [macOS](#)
- [.NET](#)
- [Qt](#)

Deployment Level **Lite**

developers.arcgis.com/arcgis-runtime/licensing

Lite

Commonly used capabilities found in most applications. Allows a user to participate in Web GIS.

INCLUDES:

- **Viewing of maps, scenes, layers, and packages from the ArcGIS Platform**
- **Routing and Geosearch**

Your ArcGIS Runtime Lite license key

```
runtimelite,1000,rud4944428944,none,1JPJD4SZ8L6YTJ1
```


Deployment Level **Basic**

Basic

For apps that need editing and more advanced Web GIS capabilities.

INCLUDES:

- **All capabilities of Lite**
- **Simple feature editing**
- **Add, update, or delete content on portals**
- **Use of ArcGIS Online analysis services**

Deployment Level **Standard**

Standard

For apps that want to leverage the full capabilities of the device.

INCLUDES:

- **All capabilities of Basic**
- **Access to additional data**
 - **Local raster layers, Local raster elevation sources**
- **ArcGIS Runtime Local Server**
 - **Map services, Feature services (edit file geodatabases)**
 - **GP services (subset of standard desktop tools)**

OPTIONAL:

- **Analysis Extension**
 - **Advanced 3D + advanced network + advanced spatial analysis**

Deployment Level **Advanced**

Advanced

For apps performing enterprise workflows that require “GIS heavy lifting”.

INCLUDES:

- **All capabilities of Standard**
- **ArcGIS Runtime Local Server**
 - **Feature services: Edit enterprise geodatabases (SDE)**
 - **GP services (subset of standard and advanced desktop tools)**

OPTIONAL:

- **Analysis Extension**
 - **Advanced 3D + advanced network + advanced spatial analysis**

Licensing ArcGIS Runtime Apps

Lite

Basic

Standard

Advanced

Do You Already have Named Users?

Customers who already have named users



License Runtime levels with a named user

- App prompts user for credentials
- App is licensed per user

ArcGIS Runtime **Lite**

Level 1 or 2 Named user

ArcGIS Runtime **Basic**

Level 2 Named user

Licensing Standard and Advanced with a named user will be coming in a subsequent release

Customers who **do not** have Named Users



Unlock Runtime levels with a deployment license

- Purchased by the pack
- Deployments are per app/per device

Lite

Deployment Pack
No-cost

Basic

Deployment Pack
50 deployments

Standard

Deployment Pack
25 deployments

Advanced

Deployment Pack
5 deployments

Analysis Extension

Available with Standard and Advanced

Deployment Pack
5 deployments

Ressourcen für Entwickler

ArcGIS for Developers

developers.arcgis.com

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ArcGIS for Developers

Bring the power of location to your apps with ArcGIS – a complete geospatial platform for developers. Regardless of your developer experience, you can create and manage apps that include mapping, visualization, analysis, and more. Build web, mobile, and desktop apps for any industry and any device.

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[ArcGIS DevLabs](#)

[Documentation](#)

Developer Labs

developers.arcgis.com/labs



Learn how to build an app in 15 minutes.

ArcGIS DevLabs guide you through the three phases of building geospatial apps:
Data, Design, Develop

Introduction Data Design Develop

Data

- ▶ Explore ArcGIS Open Data
- ▶ Create or import new datasets
- ▶ Share content or keep it private
- ▶ Prep data for offline use

[View All 5 Data DevLabs](#)



Import data

Load your data into the cloud (xls, gpx, GeoJSON, shapefiles).

[Start Lab \(10 minutes\)](#)



Create a new dataset

Define and populate datasets in the cloud for your apps.

[Start Lab \(10 minutes\)](#)

Online Sign-up

developers.arcgis.com/sign-up

Sign up for the ArcGIS Developer Program

First name

Last name

Email

[Send Confirmation Email](#)

Already have an ArcGIS Online account or are a member of the ArcGIS Developer Program? [Sign in](#) to access developer tools and downloads.

Membership in the ArcGIS Developer Program gives you access to:



Basic online app builders



Web and native client SDKs



Credits for developing and testing your apps



A large developer community to communicate and collaborate




Documentation including a vast library of developer samples




Beta software and the Esri Early Adopter Community (EAC)

Developer Dashboard

developers.arcgis.com/dashboard

ArcGIS for Developers [Dashboard](#) + [Get Started](#) [Documentation](#) [Pricing](#) [Support](#) 🔍  Lars Isc4devprog ⌵

**Lars Schmitz**
@lsc4devprog
GeoDev Germany, Admin
ArcGIS Organization Account
2452.3184 credits available


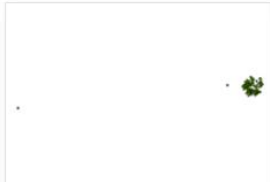
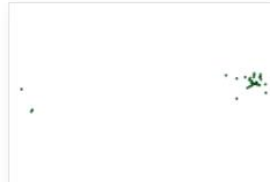

Applications

[View all 12 Applications](#)

- Netze BW
🕒 February 13, 2017
- Startups 2016
🕒 January 23, 2017
- StartupPortfolio2016-Setup-x64.exe.zip (1.0.5)
🕒 October 26, 2016

Layers

[View all 9 Layers](#) [Create New Layer](#)

- 
Startups_2016
🕒 October 25, 2016
- 
Developer Community 2016
🕒 April 25, 2016
Community
- 
Events 2014
🕒 April 25, 2016
Conferences
- 
Startups 2014
🕒 April 25, 2016
Startups

APIs & SDKs

Download APIs and SDKs, such as the ArcGIS API for JavaScript or ArcGIS Runtime SDKs.

[Download APIs and SDKs](#)

Professional GIS Software

Download and license GIS software such as ArcGIS Pro and ArcGIS Enterprise.

[Download On My Esri](#)

ArcGIS Online Organization

- Password and Profile
- Redeem Voucher
- Support
- Feedback
- Switch Accounts
- Sign Out

GeoDev Germany auf GeoNet

geonet.esri.com/groups/geodev-germany

GeoDev Germany Following Actions ⓘ ⚙

Overview Activity Content People Reports Calendar

ANNOUNCEMENT: Webinar: Das neue ArcGIS Runtime (German) Show Details

Welcome!

Welcome to the German geodev community! Follow us for all things geo development and startups. You can leave your comments and questions, too.

HELPFUL LINKS

- GeoDev Germany on Twitter
- GeoDev Germany on Meetup
- Esri Startup Program
- Esri on GitHub
- GIS IQ Blog (D)
- ArcGIS Produkt Blog (D)

GROUP ADMINS

- Alexander Erbe
- Lars Schmitz

FEATURED CONTENT

- Entwickler Webinare (German) - Lars Schmitz 4 days ago
- Meetup 1.2017 - GeoIntelligence - Lars Schmitz 4 days ago
- Webinar ArcGIS Developer Program (Deutsch) - Lars Schmitz 1 day ago
- European Geo Business Seminar - Lars Schmitz 1 day ago

All Content in GeoDev Germany

ARC GIS DEVELOPER EXPERIENCE

ArcGIS Developer Experience

UPCOMING EVENTS

- MAR 28 Webinar: Das neue ArcGIS Runtime (German) Online
- MAR 29 1st BMVI Startup-Pitch Bundesministerium für Verkehr und digitale Infrastruktur
- APR 4 Webinar: Die neue ArcGIS API for JavaScript (Deutsch) Online Webinar
- APR 7 Startup Camp Humboldt Universität zur Berlin
- APR 11 Webinar: ArcGIS API for Python (Deutsch) Online Webinar

#geodev Tweets

#GeoDev

theatre sessions, did you? More to come soon! #DevSummit #geodev arc.is/2nb95GC

GeoDev Meetups

meetup.com/GeoDev-Germany



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Change photo

München, Germany
Founded Feb 13, 2014

Mapping, Location und GIS - von Entwicklern für Entwickler

+ Schedule a new Meetup

[Upcoming \(2\)](#) [Past](#) [Calendar](#)

Webinar: Das neue ArcGIS Developer Program

ONLINE
ONLINE, München (map)

Tue Mar 21
4:00 PM

[I'm going](#)

5 days left

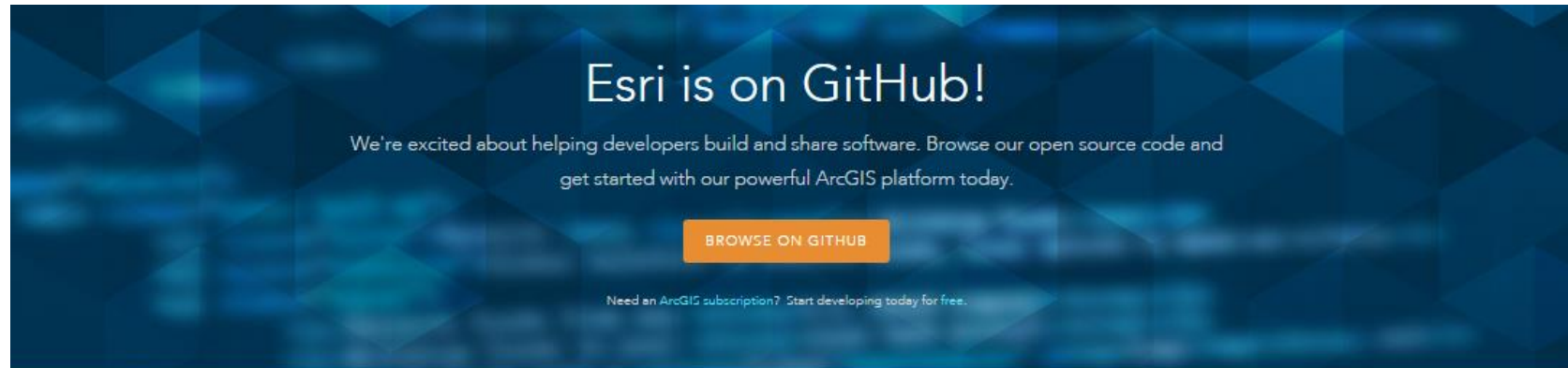
Das neue ArcGIS Developer Program Für

What's new



Esri @ GitHub

esri.github.io



Filter by language or keyword:

Search/Select

esri-leaflet
JavaScript

A lightweight set of tools for working with ArcGIS services with Leaflet.

🔼 274 ★ 339

terraformer
JavaScript

A geometric toolkit for dealing with geometry, geography, formats, and building geo databases

🔼 61 ★ 227

koop
JavaScript

Expose GeoJSON services as Feature Services

🔼 48 ★ 155

gis-tools-for-hadoop
Python

arcgis-viewer-flex
ActionScript

bootstrap-map-js
JavaScript

A light-weight JS/CSS extension for building

Key Take-Aways

- + Entwickler realisieren mit ArcGIS Runtime leistungsfähige native Geo-Apps für mobile Geräte und den Desktop.
- + Mit Version 100 steht ihnen eine neue Generation SDKs zur Verfügung.
- + Die Entwicklung mit ArcGIS Runtime ist kostenlos.
- + Für den Betrieb stehen die Pläne Lite, Basic, Standard und Advanced zur Verfügung. Die Unterscheidung zwischen Online und Offline entfällt.
- + Esri unterstützt Entwickler mit umfangreichen Ressourcen bei ihrer Arbeit.

Webinare für Entwickler

esri.de/entwickler-und-start-ups/webinare

21.03. - Das neue ArcGIS Developer Programm

28.03. - Native Apps entwickeln mit ArcGIS Runtime Version 100

04.04. - Web Apps entwickeln mit ArcGIS API for JavaScript und Web AppBuilder

11.04. - Web GIS automatisieren mit der neuen ArcGIS Python API

Online-Anmeldung auf esri.de!

Eure Fragen

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