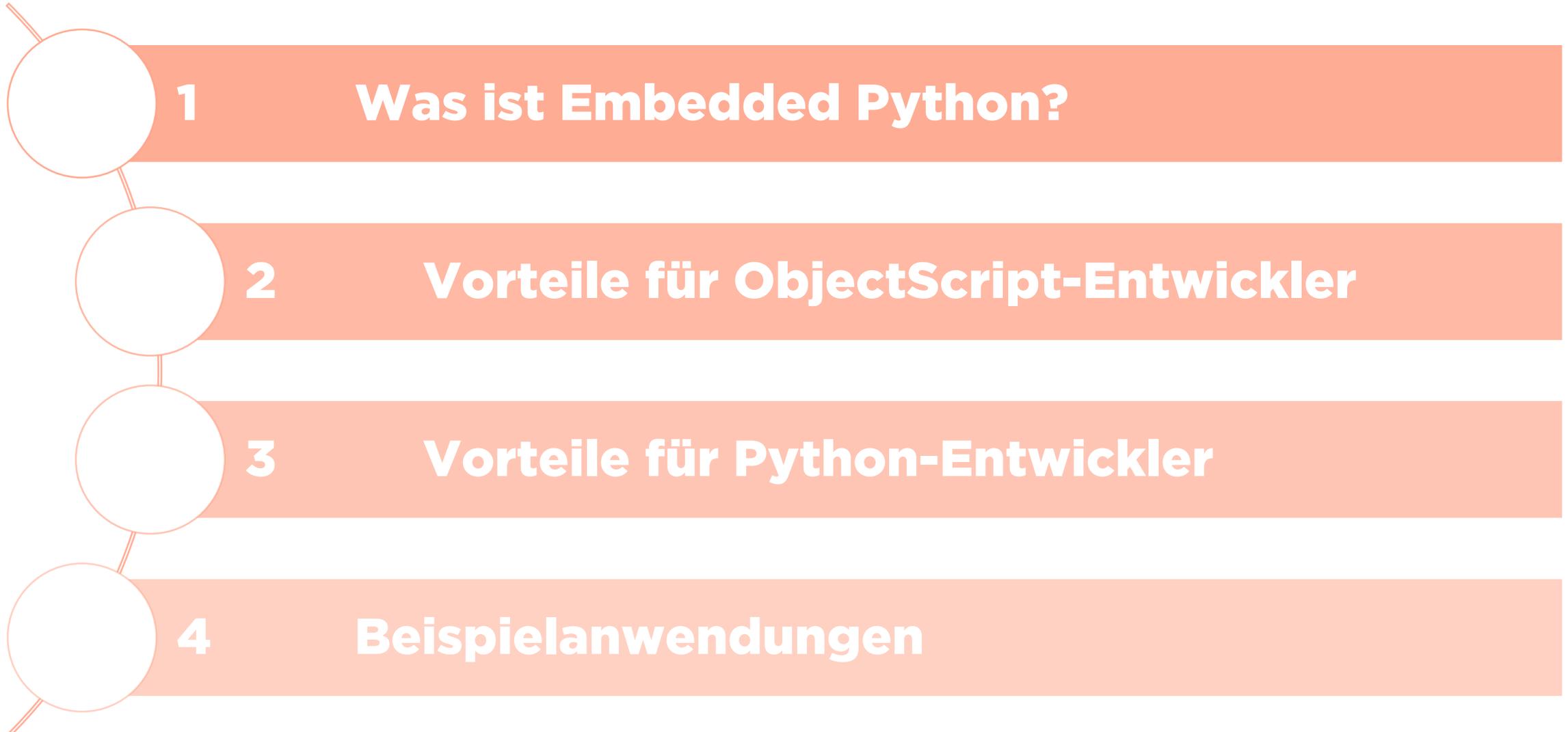


Anwendungsbereiche Embedded Python

Michael Braam | Senior Sales Engineer | InterSystems

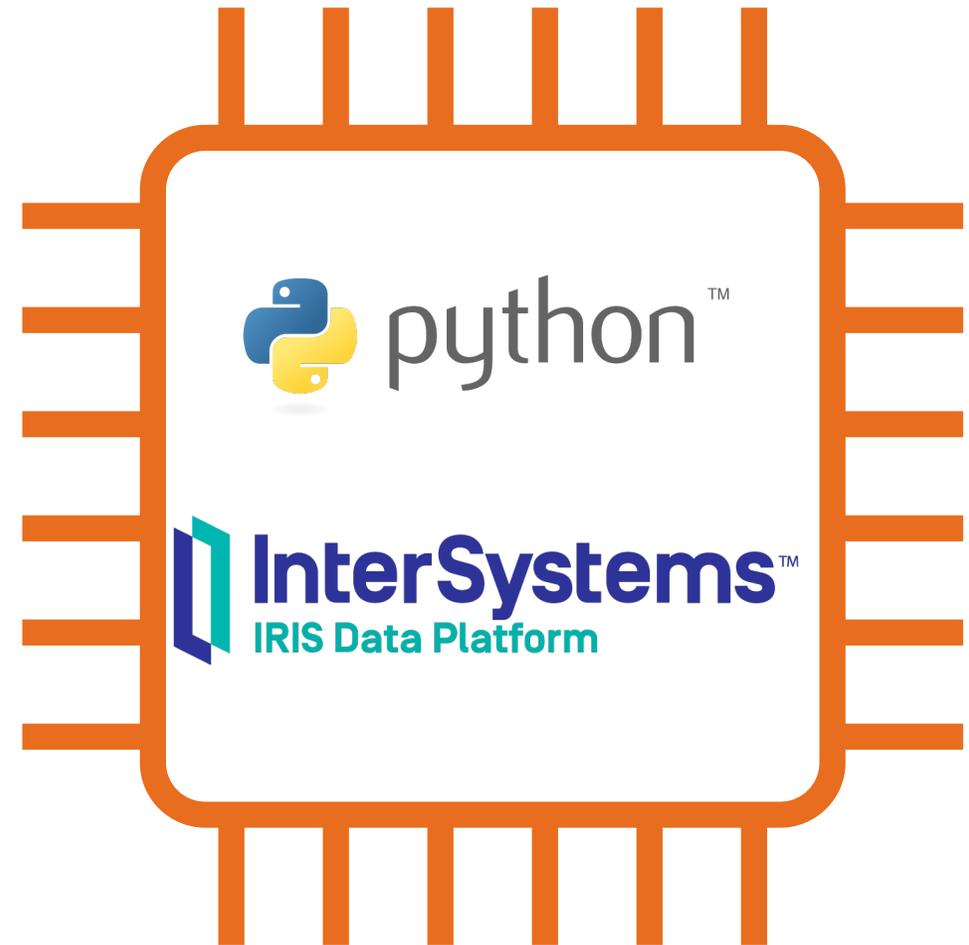


Agenda



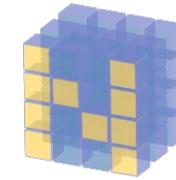
Was ist Embedded Python?

- Bestandteil seit InterSystems IRIS 2022.1
- Alternative Programmiersprache für die serverseitige Entwicklung
- Kein Language-Server (Language-Binding) notwendig
- ObjectScript und Python existieren gleichwertig nebeneinander



Vorteile für ObjectScript-Entwickler

- Zugriff auf das Python Ökosystem
 - >200,000 Pakete (alleine via PyPi)
- Große Developer-Community
- Python ergänzt bestehende Projekte
- Neue Entwickler sind leichter zu finden



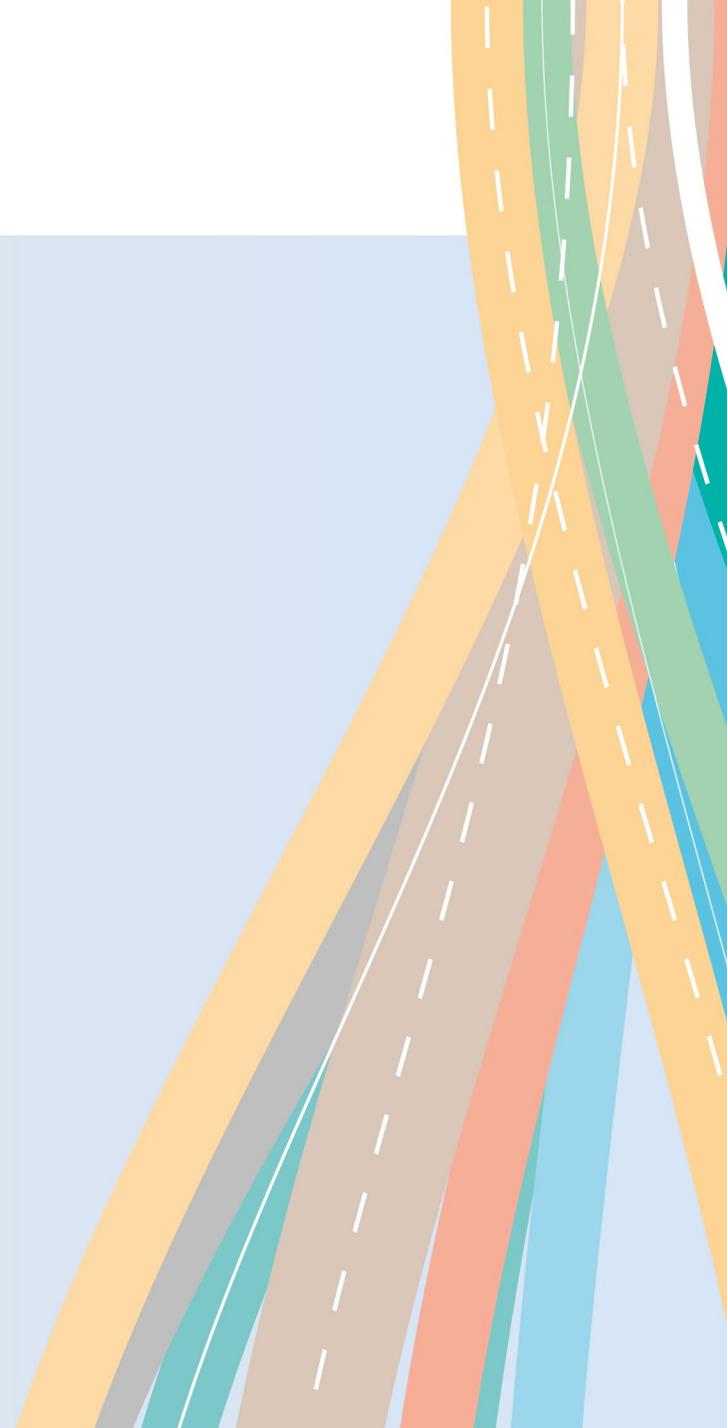
NumPy



PyPDF2



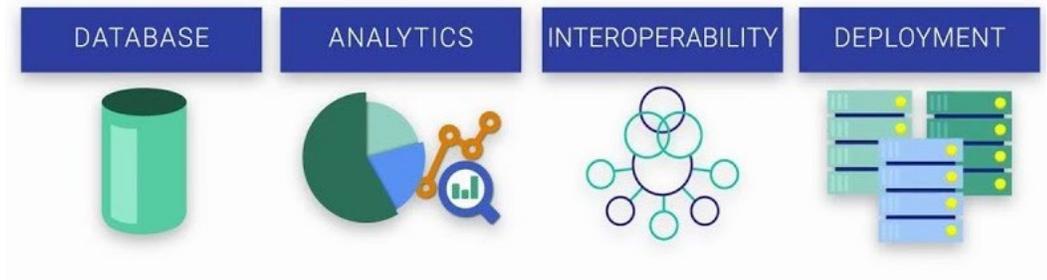
Demo 1



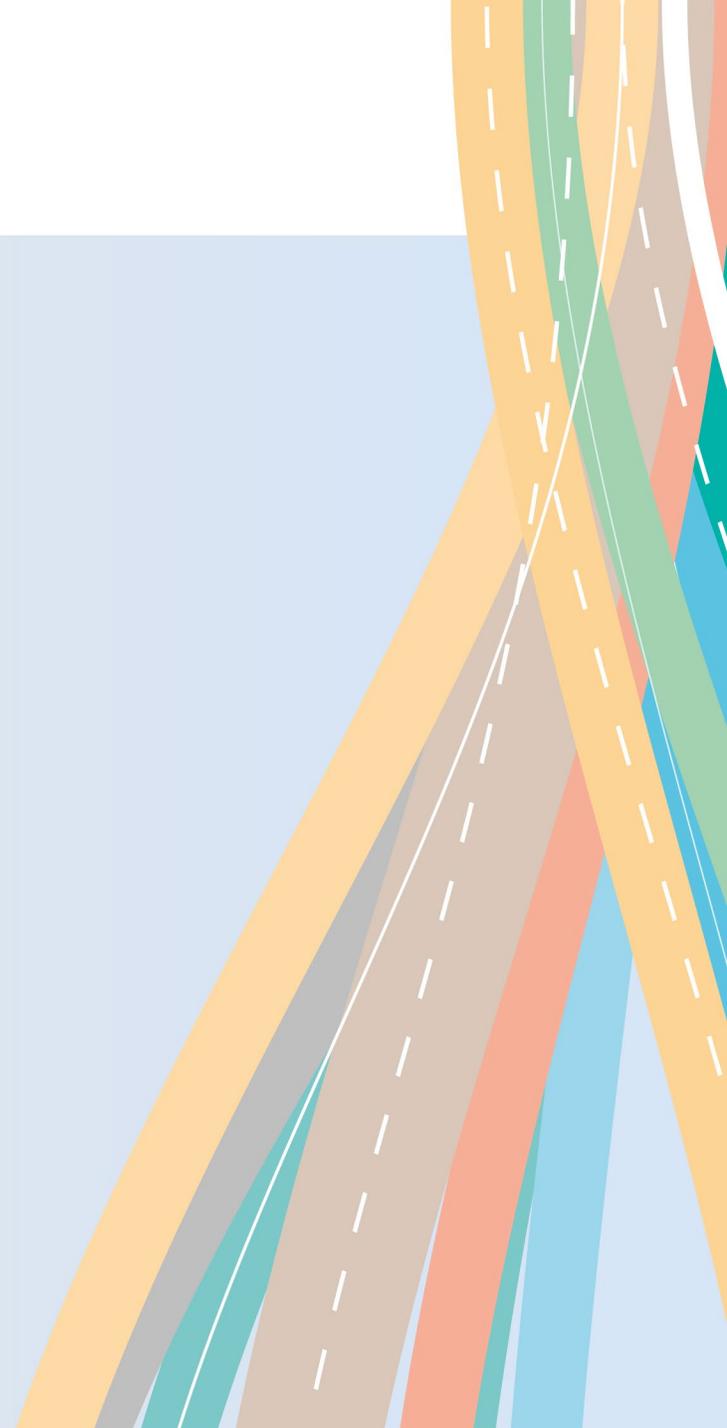
Vorteile für Python-Entwickler



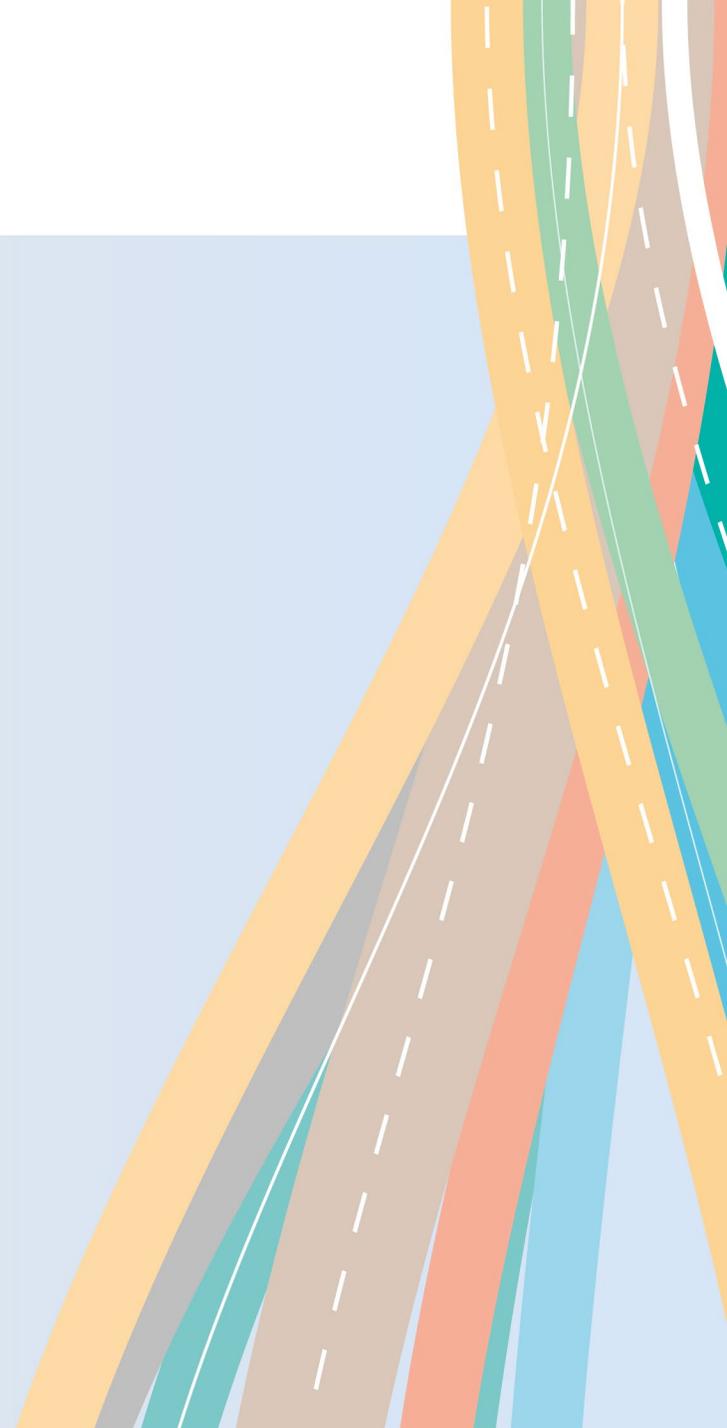
- Zugriff auf das InterSystems IRIS Ökosystem
 - Hochperformante Datenbank
 - Interoperabilität
 - etc.
- Schneller Einstieg in die Entwicklung mit InterSystems IRIS
 - Wenige ObjectScript-Kenntnisse erforderlich
 - In vielen Fällen sogar gar keine



Demo 2



Anwendungs- beispiele



Anwendungsbeispiele



Zahlreiche Applikationen auf der OpenExchange-Plattform nutzen bereits (Embedded) Python

98 Application(s)

Sorted by: Recently updated ▾

Search 

 Reset all filters

Show only

- Products with demo
- Applications with IPM
- Applications with Docker
- Applications with Python
- Supported by InterSystems
- ObjectScript quality test passed 

SOLUTIONS 

Recycler

An app that makes recycling easy

DEVELOPER ENVIRONMENT  8 

interoperability-embedded-python

Hack of PEX Python but for Embedded Python

SOLUTIONS  1 

FHIR - AI and OpenAPI Chain

Call any FHIR API with natural language input. OpenAI. LangChain

<https://openexchange.intersystems.com/>



Pillow

Pillow is the friendly PIL fork by [Jeffrey A. Clark \(Alex\) and contributors](#). PIL is the Python Imaging Library by Fredrik Lundh and contributors.

Pillow for enterprise is available via the Tidelift Subscription. [Learn more](#).

docs **passing** Lint **passing** Test Docker **passing** Test **passing** Test Windows **passing** Test MinGW **passing**
Test Cygwin **passing** Windows build **passing** Wheels **passing** aarch64 wheels **passing** codecov **90%**
DOI [10.5281/zenodo.7791017](#) lifted! oss-fuzz **fuzzing** pypi **v9.5.0** downloads **54M/month**
opensef best practices **in progress 99%** chat **on gitter** tweet **on Twitter** publish **on Mastodon**

Overview

The Python Imaging Library adds image processing capabilities to your Python interpreter.

This library provides extensive file format support, an efficient internal representation, and fairly powerful image processing capabilities.

The core image library is designed for fast access to data stored in a few basic pixel formats. It should provide a solid foundation for a general image processing tool.

iris-qr-barcode-utils by Yuri Marx Pereira Gomes



Write barcode image

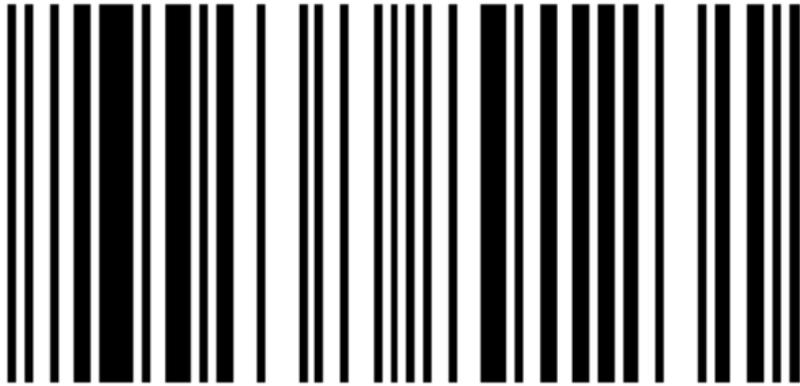
Examples 0 BUILD

GET `http://localhost:52773/iris-qrbarcode/writeqrbarcodetoimage/1234567891234/test` Send Save

Params Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body 200 OK 167 ms 6.52 KB Save Response



1234567891231

OCR Sample by Guillaume Rongier



Interoperability > Production Configuration - (dc.Demo.Production)

Production Configuration

 **Sort:** Name

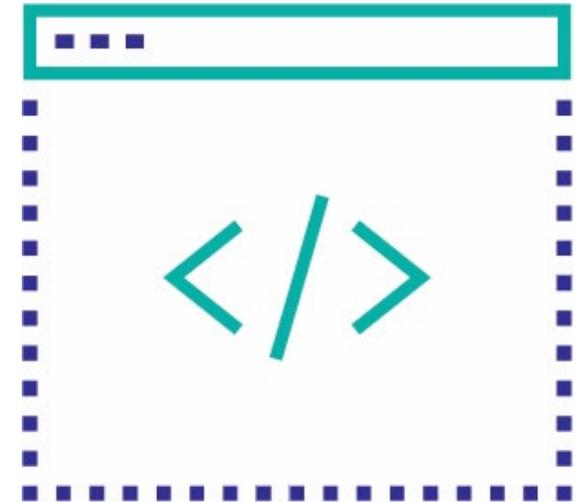
Production Running Category: Legend Production Settings

Services  **Processes**  **Operations** 

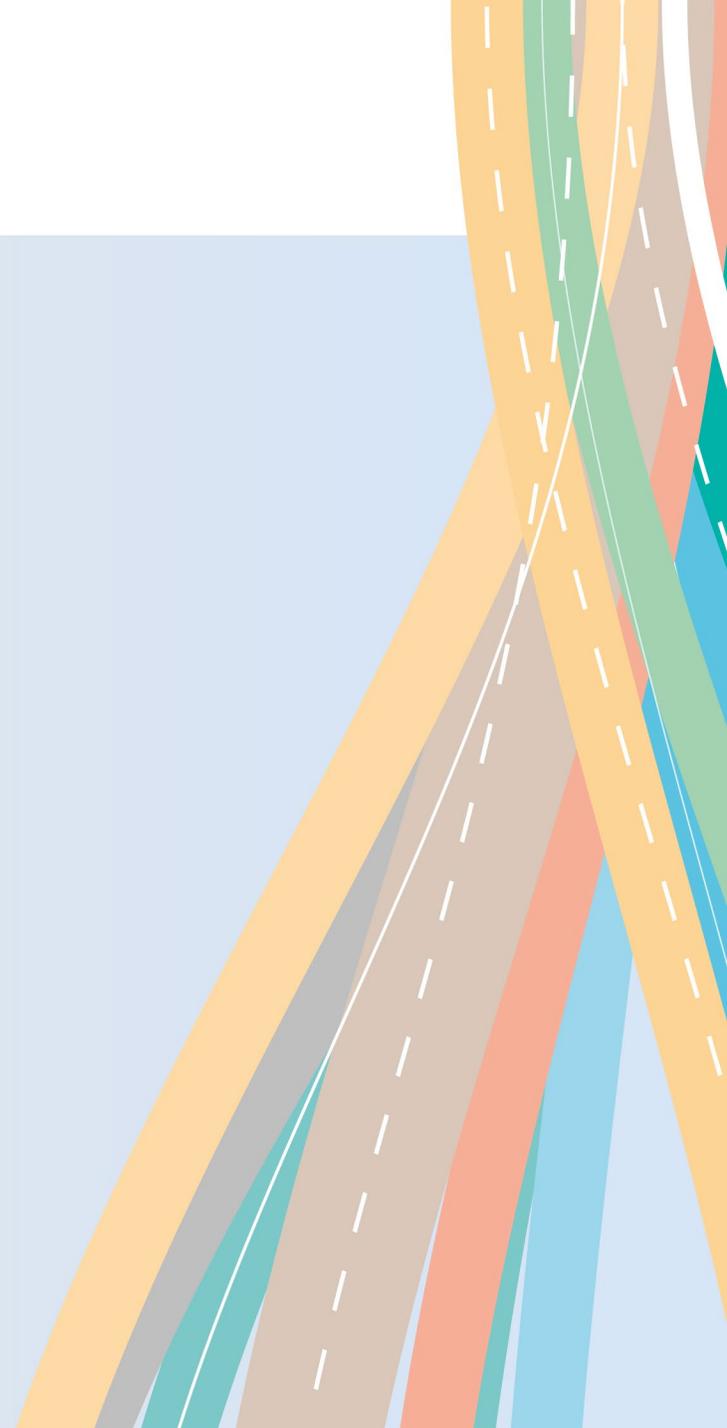
<input checked="" type="radio"/> ServiceOCR <input type="radio"/>		<input checked="" type="radio"/> SaveFileOperation
--	--	--

Fazit

- Embedded Python ist nahtlos in die InterSystems IRIS Plattform integriert
- Einfache Benutzung
- Schnelle und einfache Umsetzung von Aufgabenstellungen
Dank Zugriff auf Python-Bibliotheken



Fragen?





Abend- programm

Ab 18:00 Uhr



Hotel Meliá | Restaurant Neu-Frankfurt

