SAP Cloud Application Programming Model

https://cap.cloud.sap

Roundtable #5

April 5th, 2023

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Today's hosts:

Sebastian Schmidt

Michael Hellenschmidt

THE BEST RUN SAP

Agenda

Introduction: Recap from last Roundtable	5 min
Tools Update	30 min
Interactive Documentation w/ Notebooks – Mara Kiefer	
Common Content Package – Christian Georgi	
CDS Syntax Highlighting on GitHub – Christian Georgi	
Update on Java Runtime	30 min
HCQL Adapter – Robin de Silva Jayasinghe	
Improvements in Memory Consumption of CDS Models – Adrian Görler	
Additional Persistence Services – Marc Becker	
Reliable Paging – Vladimir Mikhaylenko	10 min
Open discussion	

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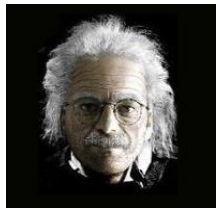
We are providing access to the people that drive product development

CAP Leads

Ole Lilienthal
Head of unit



Daniel Hutzel
CPO

Product Owners

Steffen Weinstock

Johannes Vogel

Matthias Braun

Adrian Görler

Christian Georgi

Areas

CDS / Compiler

Node.js runtime

Java runtime

Tools

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Summary of Forth CAP Customer Roundtable in January 18th

We had:

1. **CAP@TechEd** summary (incl. **Open Source**) *(Anna 5min)*
2. **Multitenancy - News & Outlook** *(Christian 15min)*
3. **Upsert - GA Update** *(Adrian 10min)*
4. **Java Major Release Preview** *(Matthias 10min)*
5. **Node.js Roadmap** *(Johannes 10min)*
6. **reCAP 2023** (&UI5con) is coming! *(Sebastian 5min)*

- Q with regards to capire:
  - Does CAP needs help in documentation?
  - Search in capire, toggles, etc.?

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Hot Dev Summer 2023

Wednesday
July 5th

Azure Cosmos DB Hackathon

Thursday
July 6th

UI5con

Friday
July 7th

re>≡CAP

Saturday
July 8th

SAP CodeJam (CAP)
Service integration with CAP

re>≡CAP 2023 | July 7th

- Thanks for all your **session proposals**!
  → *Final **agenda** is in progress and will be published soon…*
- **Registration** for UI5con, re>≡CAP, and hackathons will open on **April 27th**
  → *We'll let you know soon…*
- Full **onsite** conference with (partial) **streaming**
  → *Make sure to **join us** in St. Leon-Rot!*

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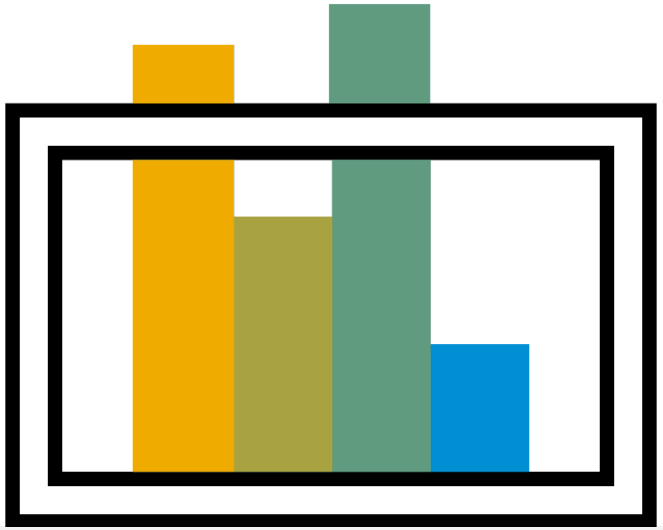
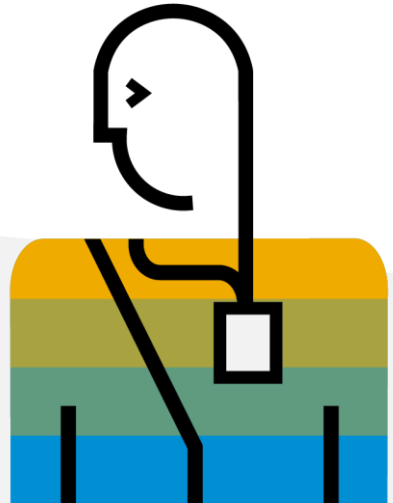
Presentation #1

Tools Update – Mara Kiefer, Christian Georgi





What is a CAP Notebook?

A **custom (CAP) VS Code Notebook** for all…

- *You*: to create and share documents with *live* code, visualizations & markdown
- *Others*: to understand, check, and reproduce

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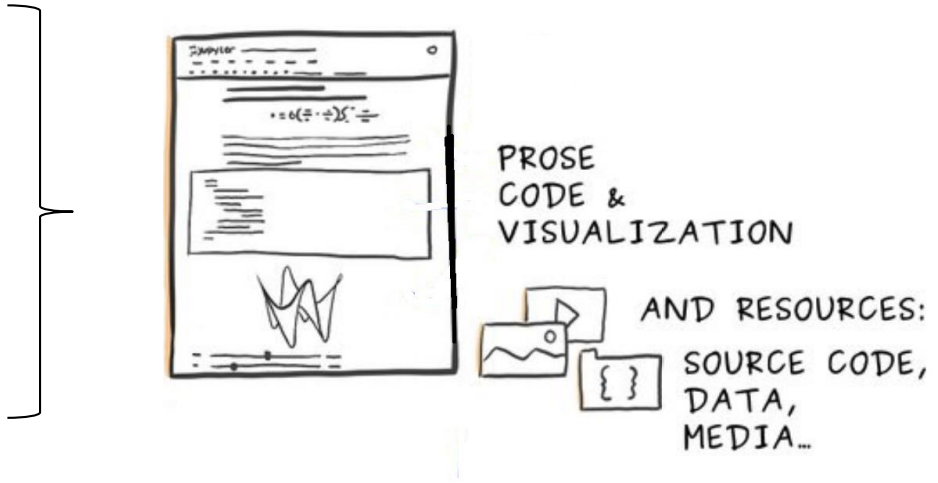
What is a CAP Notebook?

It **combines the REPL and IDE** features we need…

- REPL -> … for interactive testing
- IDE -> … for writing persistent code

Plus, it just looks nice!



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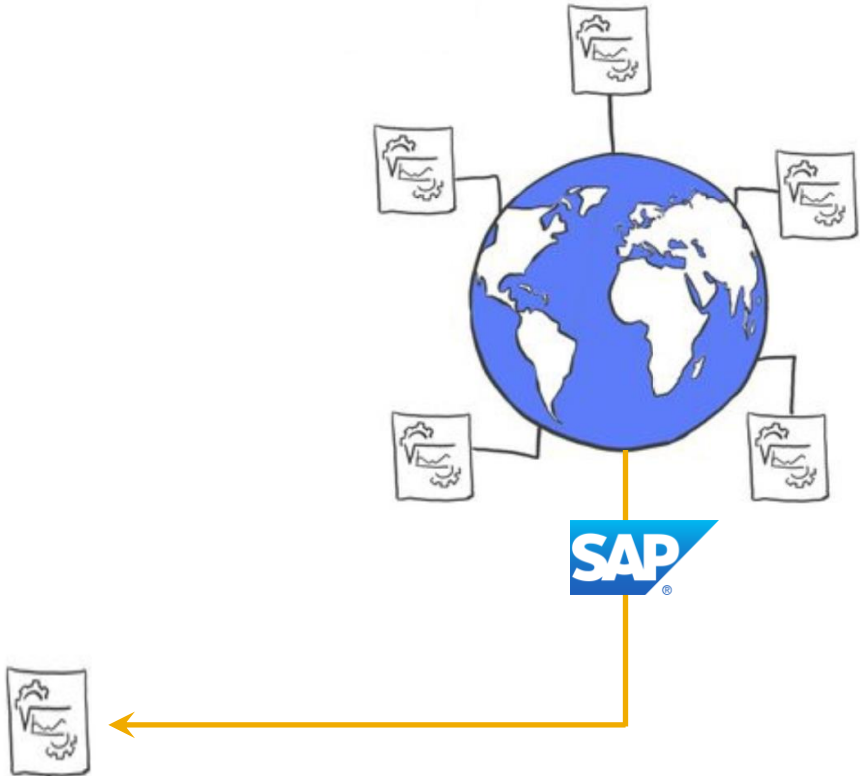
What is a CAP Notebook?

It has **a variety of applications** in…

- Teaching & demonstrations
- User support, testing & debugging
- <Your idea(s) here!>



Demo: **CAP Notebooks buttons in Capire**

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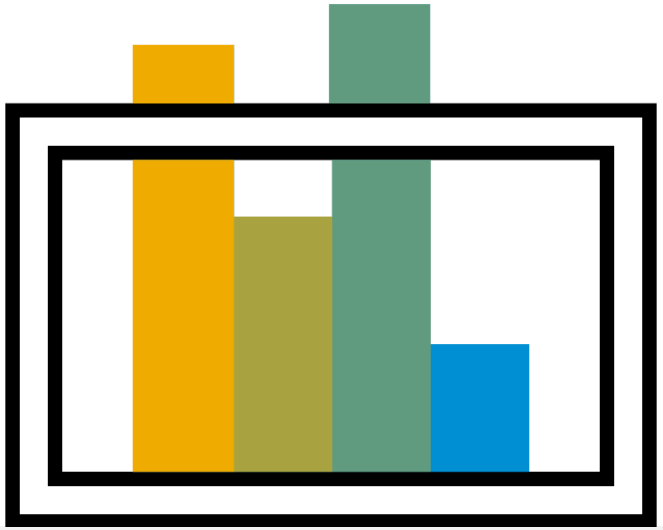
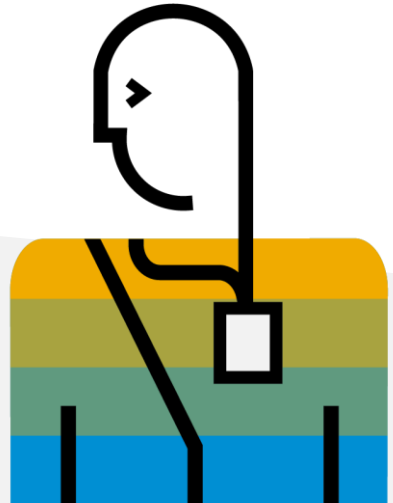
Presentation #2

Java Runtime Update – Robin de Silva Jayasinghe, Adrian Görler, Marc Becker





HCQL protocol for remote services

Disclaimer: everything shown in the demo has preview state!

- What's in it for you?
  - A new and optimized protocol for **remote service calls** in CAP.
  - Call other (capable) remote services **without using OData** as a transport protocol
    - Instead enable CAP services to open **endpoints for CQN statements**.
    - And introduce outward communication that directly emits CQN.
  - Usable **without changes** to your application code.

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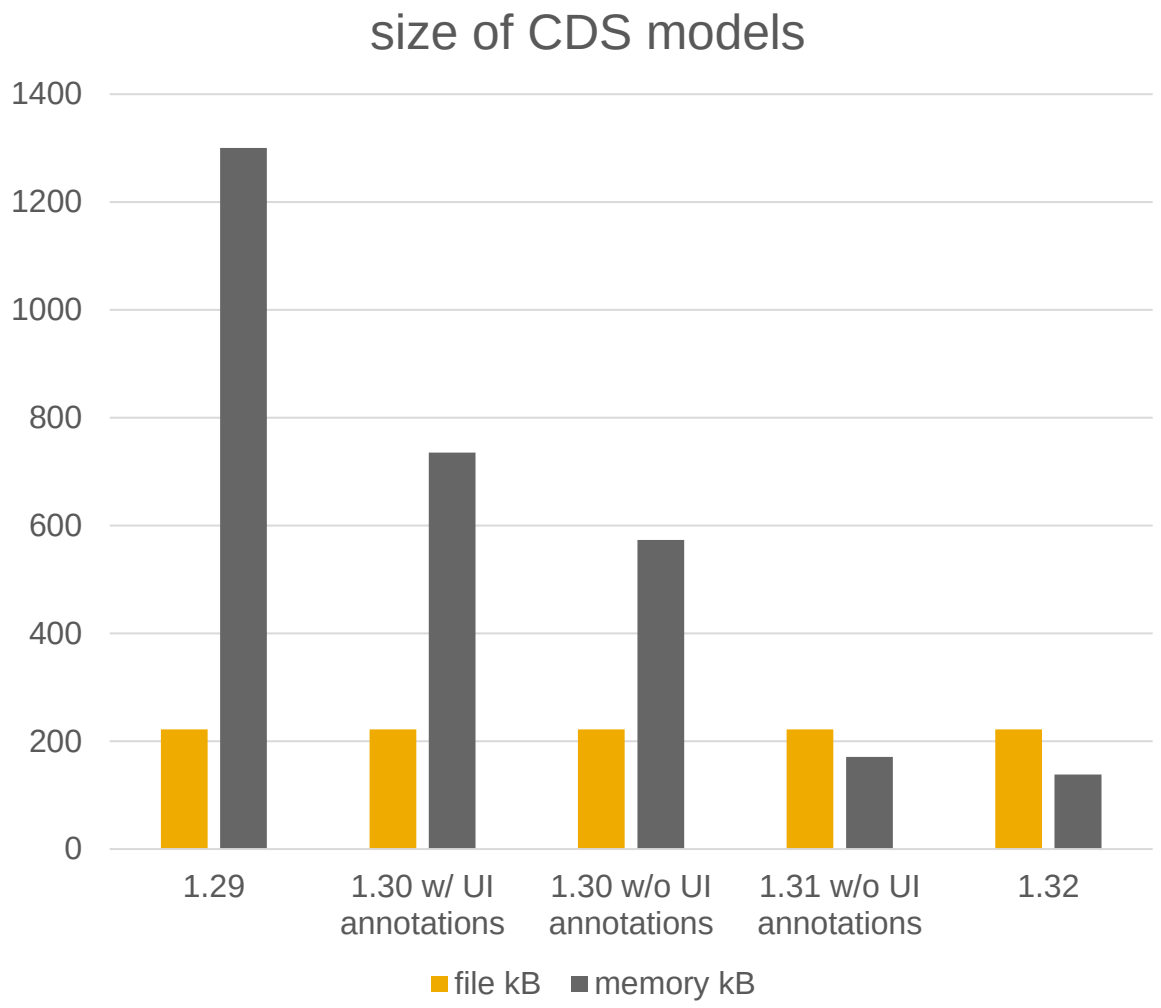
CDS Model Size

- More compact storage
- Interned Strings
- Stripped UI Annotations
- Deduplication
  - Annotations
  - Types
  - Shared across tenants

Effort is ongoing



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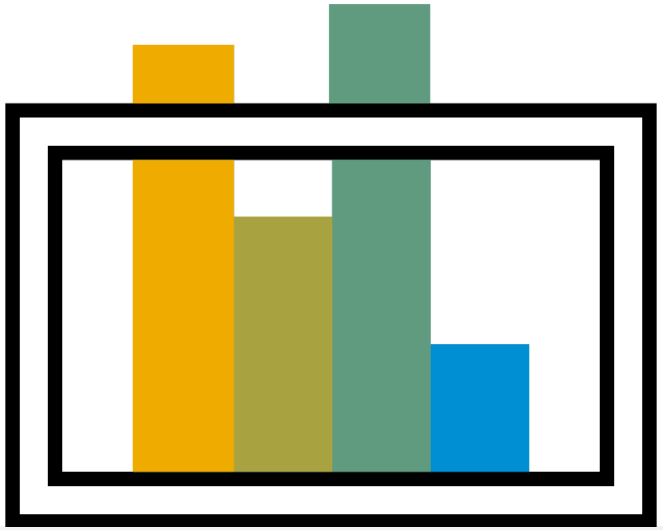
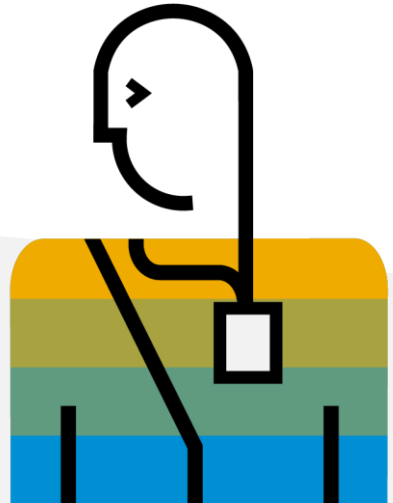
Presentation #3

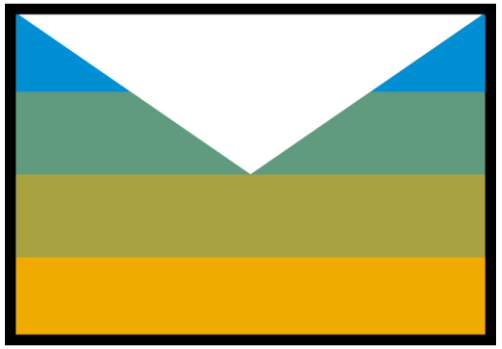
Reliable Paging – Vladimir Mikhaylenko





Stay in touch!

Invitations to CAP events via email?



CAP Events Overview

All available information on past and future CAP events.

re>≡CAP 2023

- **Date**: 7th of July
- **Place**: St. Leon-Rot, Germany
- **Type**: Onsite developer conference (with partial online streaming)

Landing Page

Call for Session Proposals (Deadline: 31st of March)

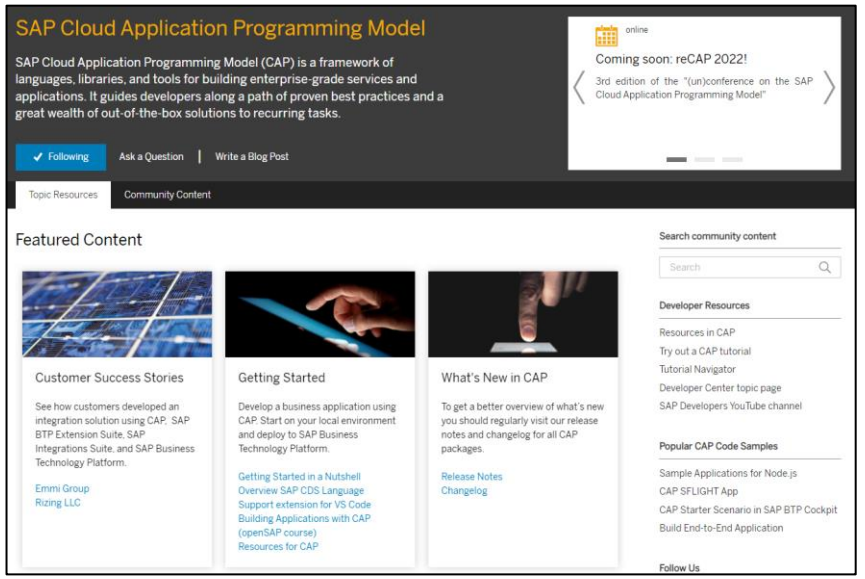
Announcement

Add re>≡CAP to your calender: Google | Office 365 | Outlook | iCal

THE developer conferences come together!
UI5con and re>≡CAP are happening two days in a row. So you can get the **full stack conference experience**. Don't miss it.

SAP Customer Roundtable April 2023

- **Date**: April 5th, 2023 11 AM EST | 5 PM CEST



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https://cap.cloud.sap/docs/events/

https://community.sap.com/topics/cloud-application-programming

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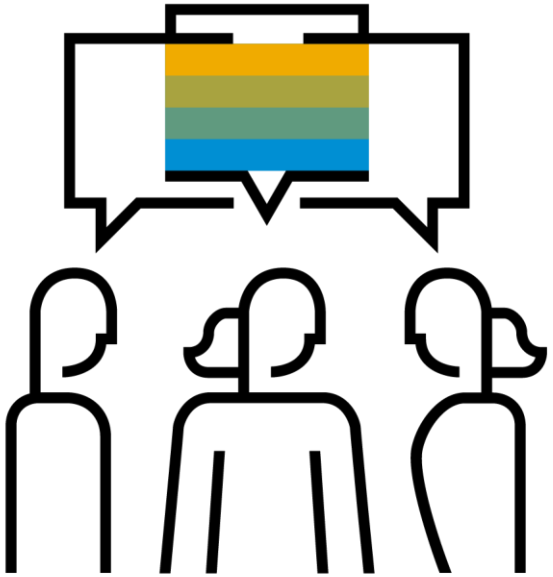
Q&A

Open discussion – what's on your mind regarding CAP?

Possible topics:

- What are you working on?
- What are you interested in learning more about?
- What feedback do you have on our products?
  - What do you like?
  - What do you need CAP to do that it does not?
  - What new capabilities do you need from CAP?
- Are you stuck in your projects?
- Would you like to demo what they you working on?



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Thank you.

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