



# SAP Application Studio

SAP Web IDE's Journey to SAP Application Studio  
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THE BEST RUN





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**413,000+**

Customers

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**95,000+**

Employees

---

**17,000+**

Partners

---

**25**

Industries

---

**€24.7B**

Revenue  
in 2018

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**92%**

of Forbes  
Global 2000 are  
SAP Customers

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**77%**

of the world's  
transaction  
revenue  
touches a SAP  
system

---

**100+**

Development  
and innovation  
centers

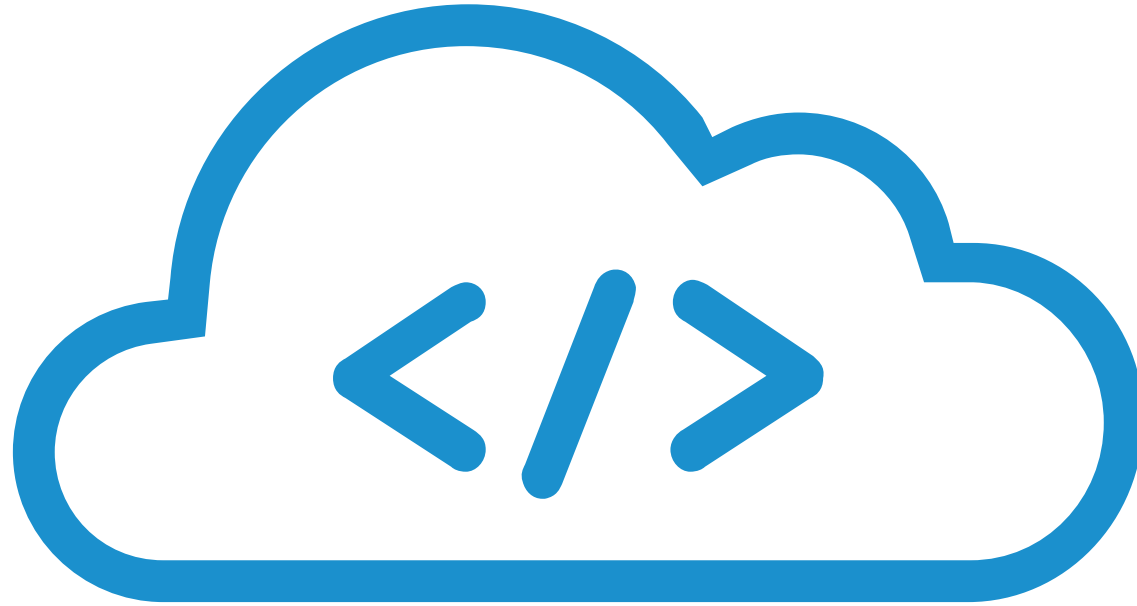


**77%** of the world's business to business transaction revenue touches an SAP system.



**SAP**





SAP Web IDE is a **powerful, extensible, web-based** integrated development tool that **simplifies end-to-end** **SAP business application development**

# SAP Web IDE Journey

Nov-2013



## Web Application Development

Rapid UI5 application  
development

Client: SAP Web IDE

Server: Eclipse Orion



A decorative dotted line consisting of white dots arranged in a horizontal line at the top, a vertical line on the right, and a single dot at the top-left corner.

## Full Stack Development

Develop full stack application

Client: SAP Web IDE

Server: Eclipse Che 3









# SAP Application Studio

 Biz Scenario  
Ext.

 Common Dev  
Services

 VS Code  
Compliant

 THEIA

 kubernetes  Gardener  Istio  docker

 aws  Microsoft  
Azure  Google  
Cloud  Alibaba Cloud 





# WebIDE Demo



### **Improved Dev Experience**

Feature parity with leading IDEs  
community extensions



### **Efficient Investment**

Invest in SAP differentiators  
Build on standards and OSS  
Maintain past investments



### **Aligned with SAP Strategy**

One coherent dev experience  
Leading dev experience



### **Full fledged Delivery**

Flexible delivery

Motivation

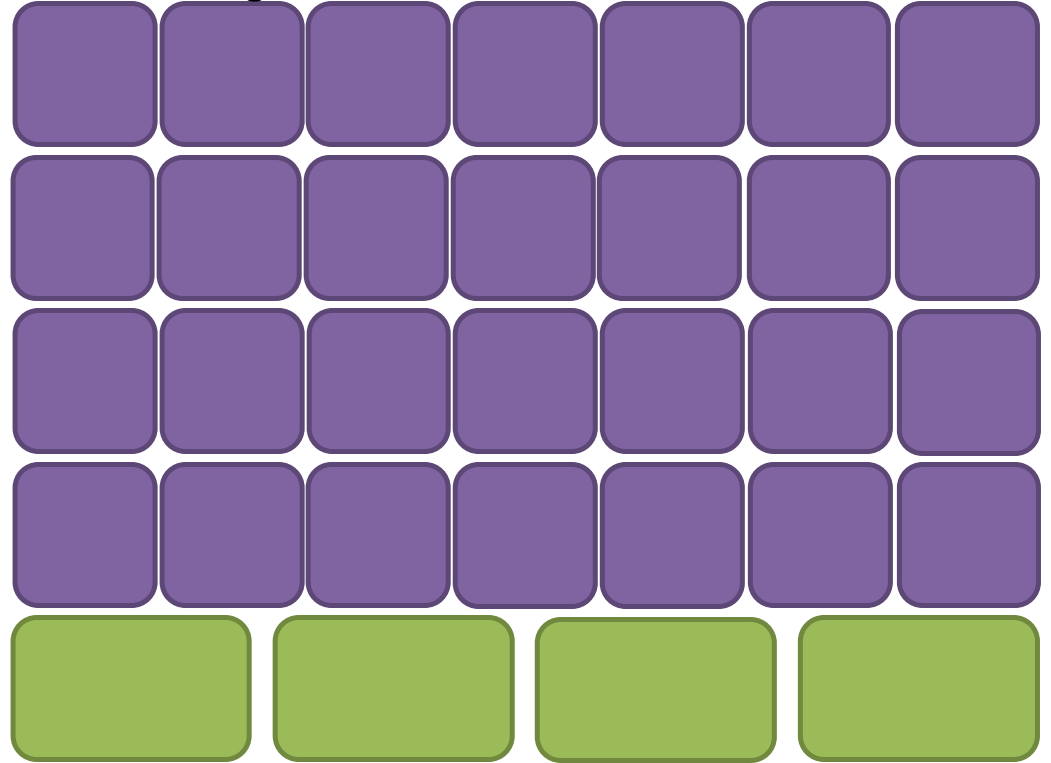
Average of **20k** lines of code for each



Platform (WebIDE)



Average of **?** lines of code for each



Platform (Theia)

# Migration Approach



Graphical Editors    WebIDE in Iframe



Text Editors

Existing LSP  
d.ts / rewriting in LSP



Hybrid

Migrate business logic with  
new UI



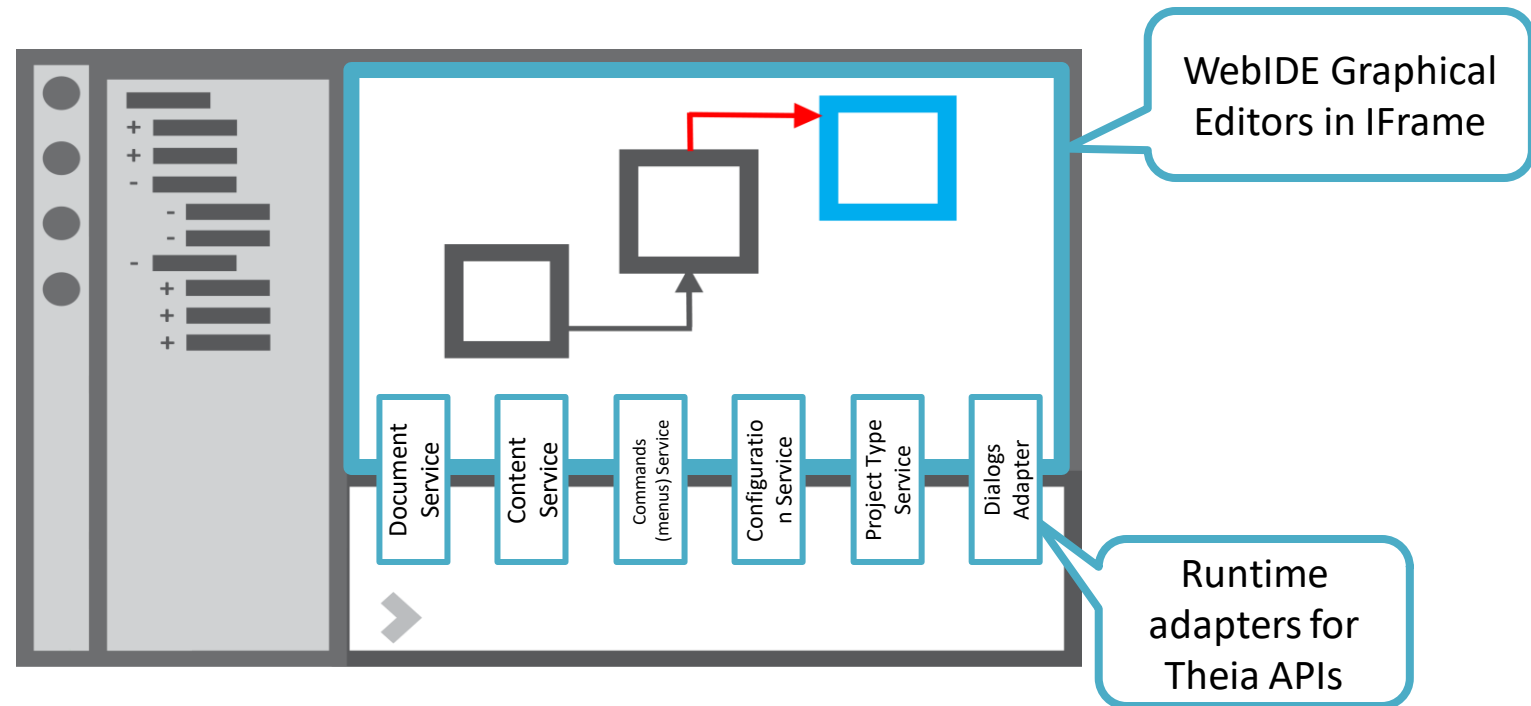
New tools

Create new tools to feet  
new paradigms



# Embedded Graphical Editors

- SAP WebIDE embedded inside Theia as extension within IFrame
- Each WebIDE “feature” (editor) is VSCode extension

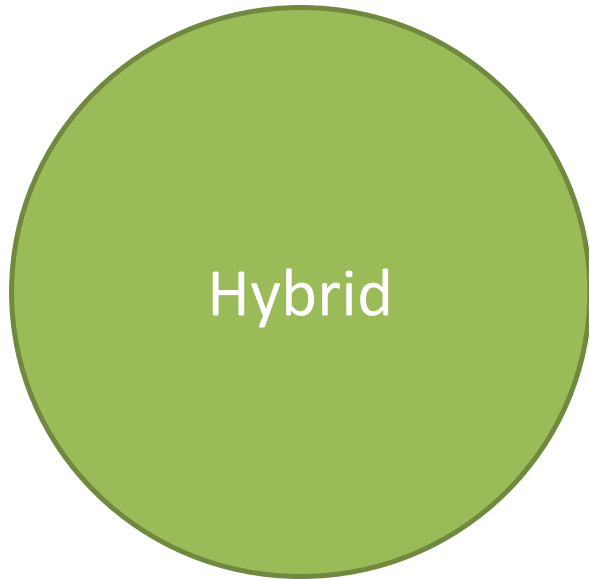


## Text Editors

- Use LSP:
  - Migrate existing LSP (CDS, etc')
  - Rewrite old JS based language support to LSP
  - Use d.ts to cover some libraries UI5



Native text editor with LSP



- Native UI
- Old JS based business logic to new code base



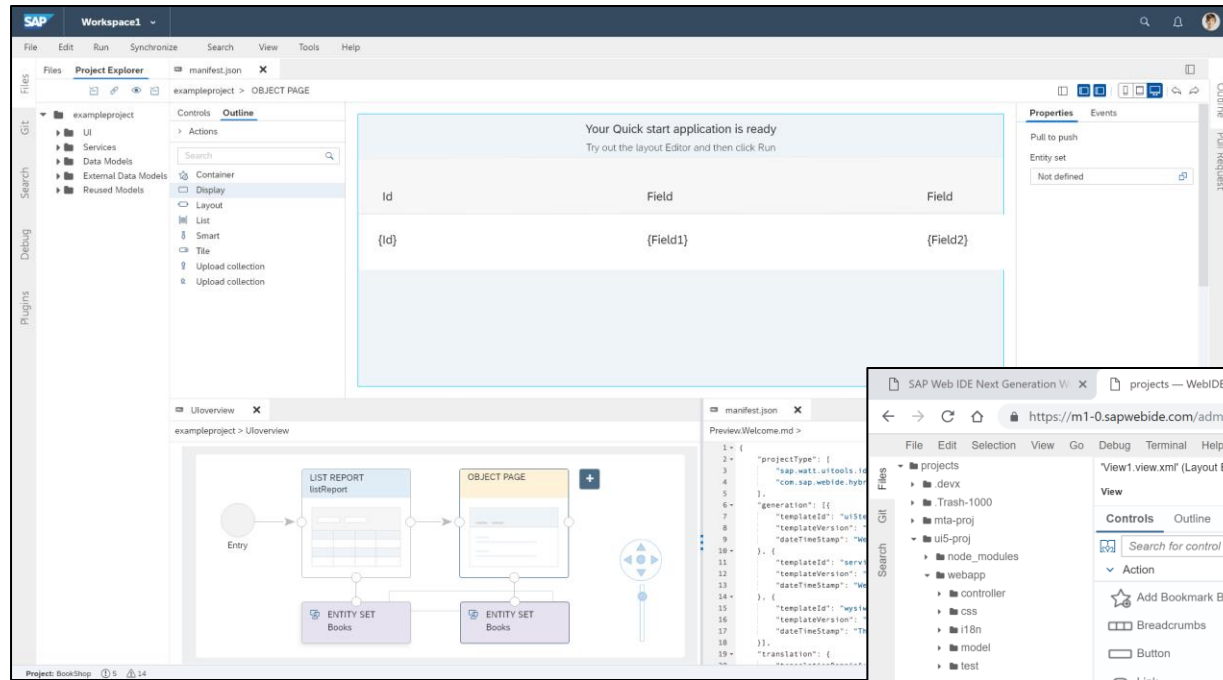


- Text editors use LSP: (CDS, UI5, etc')
- Command line tools

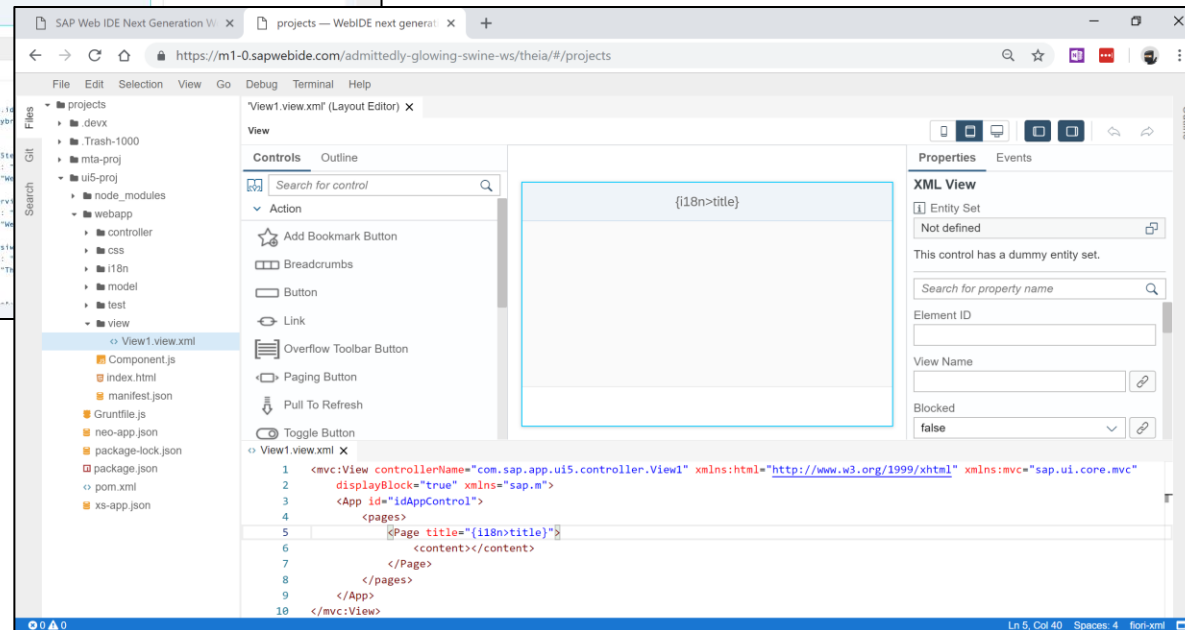




# Introducing: SAP Business Application Studio



A modular driven environment,  
tailored for developing Intelligent  
Enterprise scenarios



# Demo



Any  
Question?

## SAP WebIDE

<https://developers.sap.com/topics/sap-webide.html>

## SAP Business Application Studio

<https://blogs.sap.com/2019/10/15/showcasing-sap-business-application-studio-the-next-generation-of-sap-web-ide/>



# Thank You

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