

ChatGPT trifft Compositum Pages und Adobe AEM

Compositum AI: KI im und am CMS

Worum geht's?

- Lust auf Composum Pages (CMS + AI)
 - Composum in 2 Minuten
 - Demo Composum AI auf Composum Pages
 - Demo Composum AI in Adobe AEM
- Lust auf KI
 - Implementation von Composum AI
 - KI in der Erstellung von Konzepten, Programmcode, ...

Über mich

Dr. Hans-Peter Störr



Software Architekt an der IST GmbH Dresden

Projektarbeit in vielen Projekten von Application Server bis Adobe AEM

www.ist-software.com

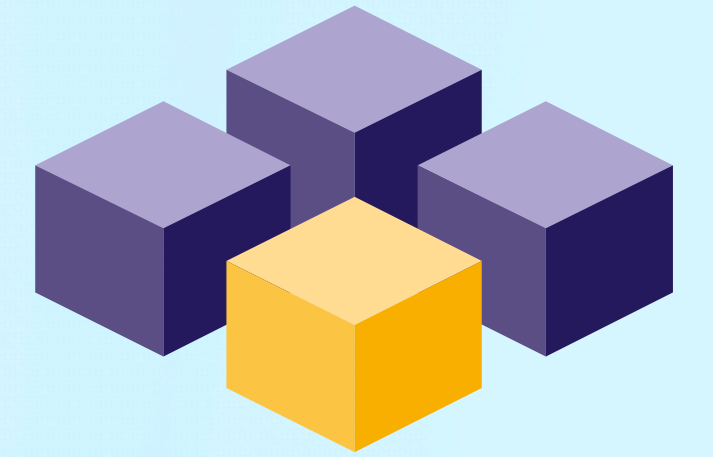
www.composum.com

[www.stoerr.net\(+ /blog.html\)](http://www.stoerr.net(+ /blog.html))



Was ist Composum

www.composum.com, cloud.composum.com



- "Adobe AEM Lite"
- Open source CMS (MIT Lizenz):
github.com/ist-dresden/
- Basis [Apache Sling Framework](#), [JCR](#), [Felix-OSGI](#)
- ausgeprägt (Sling-)komponentenorientiert

"in Action" testbar: cloud.composum.com, [Docker](#), Sling Packages

Module von Composum

- "Nodes": JCR Browser, Package / User Manager,
im Apache Sling Starter integriert, verwendbar mit AEM
- "Platform": Release / Access Management, Tenants, Workflows, SSO,
Content-Replikation zwischen Servern, ...
- "Pages": Content Management
- "Assets": Asset Management
- "Composum AI": KI unterstützte Textanalyse & -generierung
- Referenz-Site: www.composum.com (source auf Github)

Composum AI

- Ausspielen der Vielfalt von LLM wie ChatGPT durch Bandbreite von Prompts
- Varianten: Composum Pages, Adobe AEM
- Backend: momentan ChatGPT, weitere nach Bedarf / Verfügbarkeit

- Verschiedene Assistenten:
 - Übersetzung, SEO keywords, Side panel AI, Content Creation Assistant
- Integriert sich als Icon in existierende Dialoge


Composum AI Demo

Integration into Dialogs


When editing the components in Composum, there are a couple of icons that are present in the title of the fields of the component. A click on one of these icons opens the corresponding dialog.


Edit Page Properties deutsch [de] X


Page Navigation Page Styles Search Engines

Title Pause current / headline 

Composum

Subtitle the optional subtitle / slogan 

Description a short abstract / teaser text of the page 

Category 

a set of short keywords in the site context; used for searching and filtering and embedded as 'keywords' in the pages meta data

Delete jcr:content components/page/home Cancel Save

Content Creation Assistant

For text fields the content creation assistant offers its help.

Sidebar AI

The sidebar AI can support you by reviewing the text of the page under various aspects, find typos or answer questions in a chat.

Translation assistant

If for the given field there is a text in one or more different languages, the translation assistant icon is available,

Page category assistant

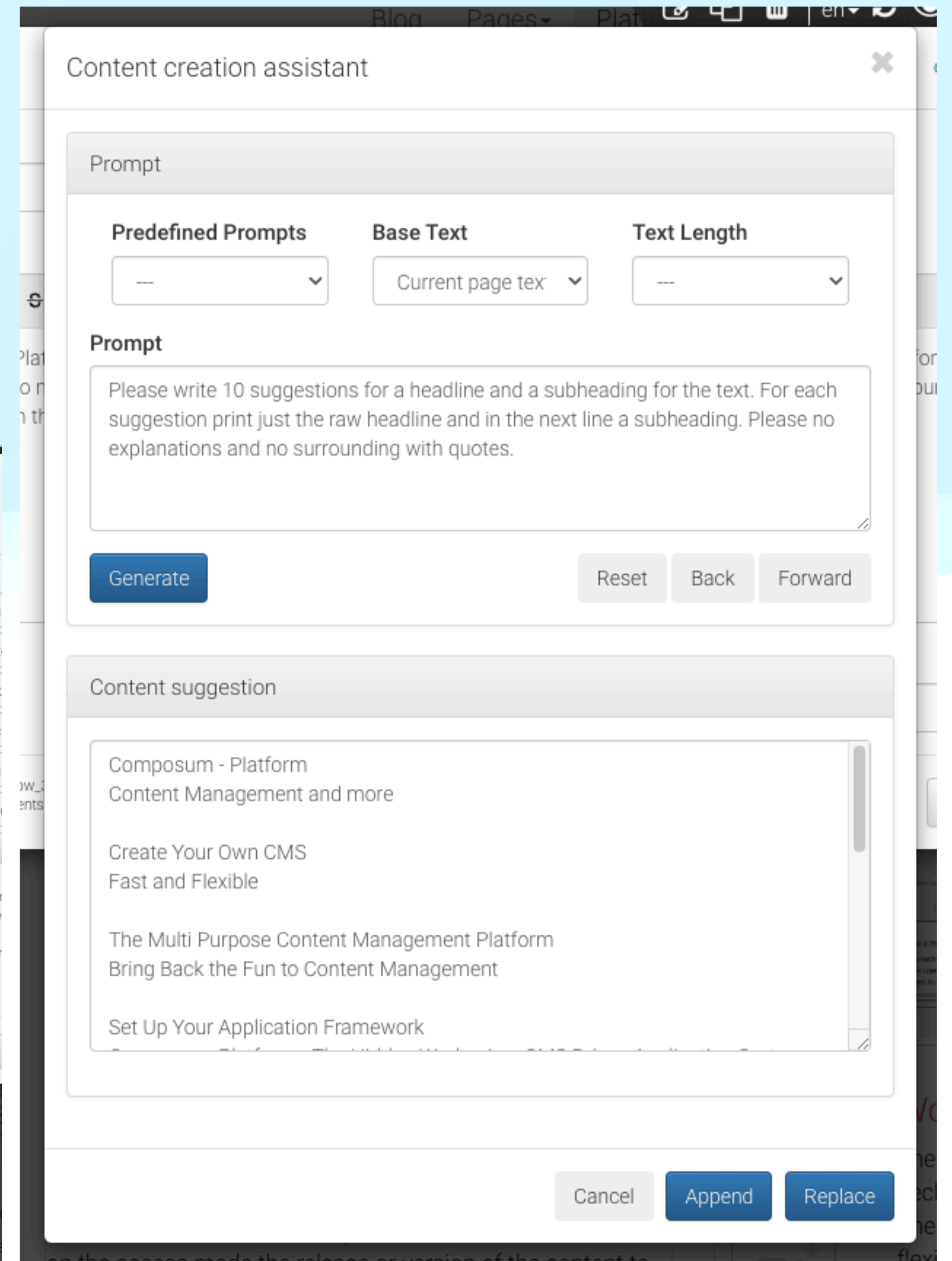
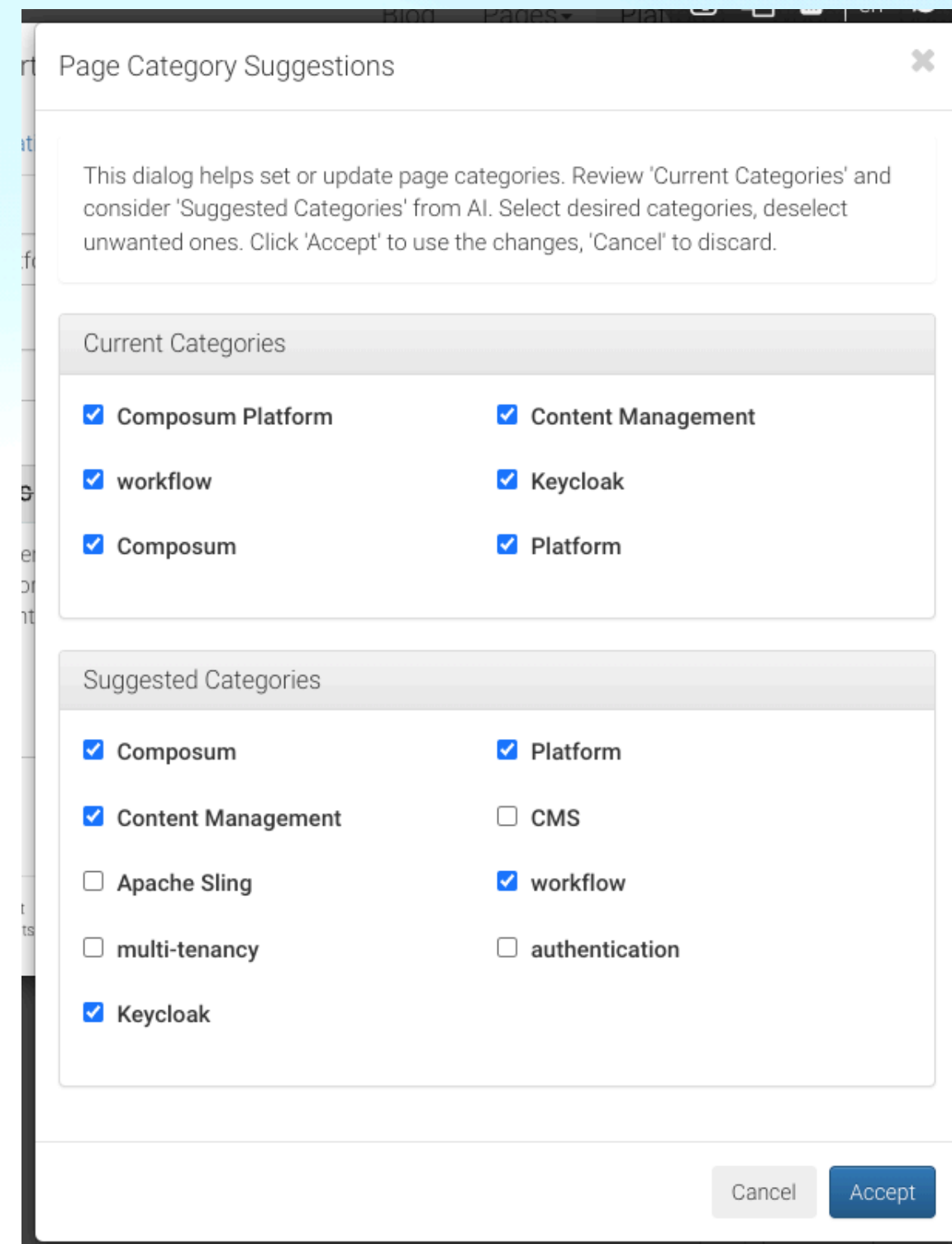
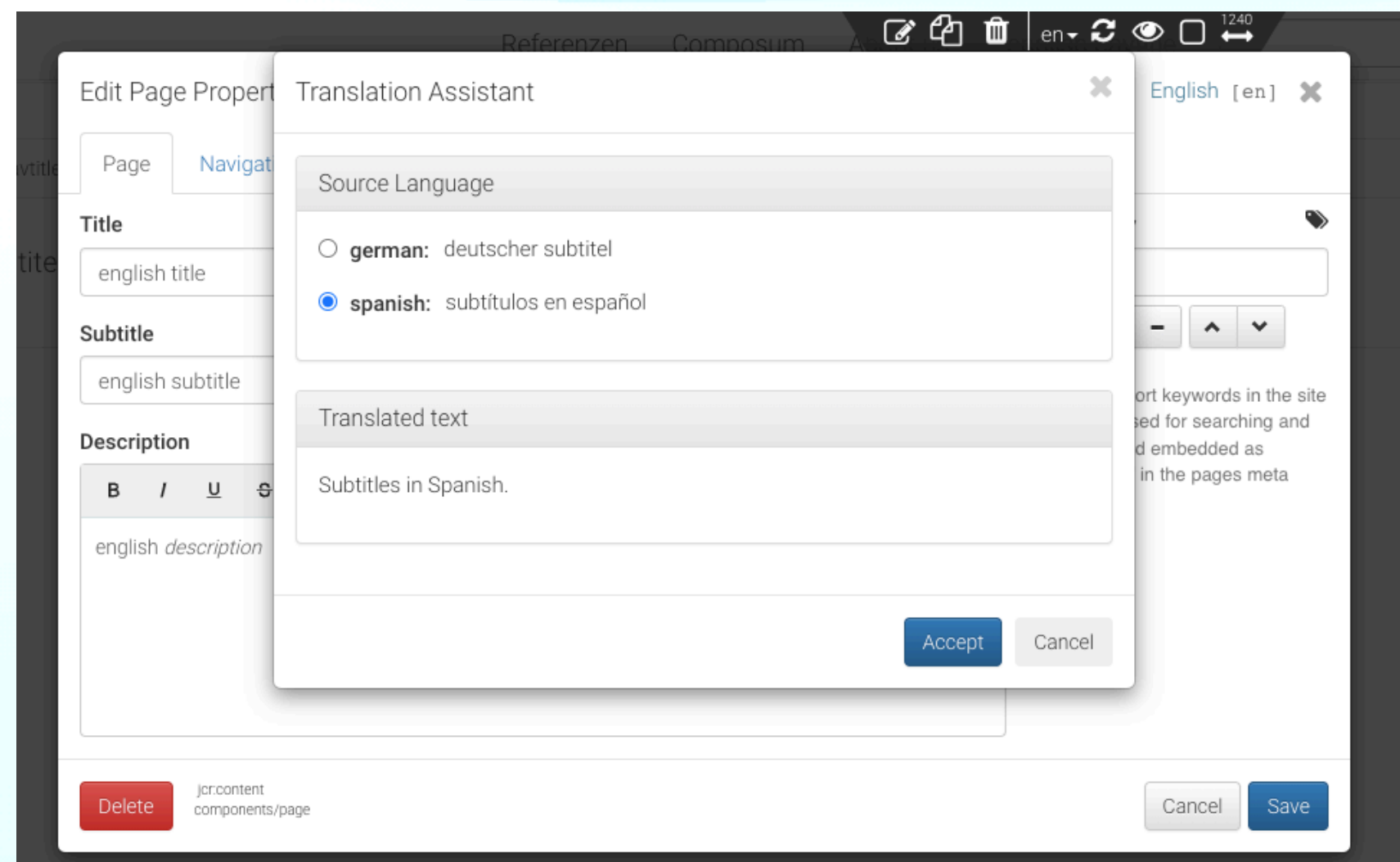
When editing page properties, the page category assistant suggests SEO keywords based on the content of the page.

Composum AI Demo

Dialogs part 1

Translation, Page categories

Content creation



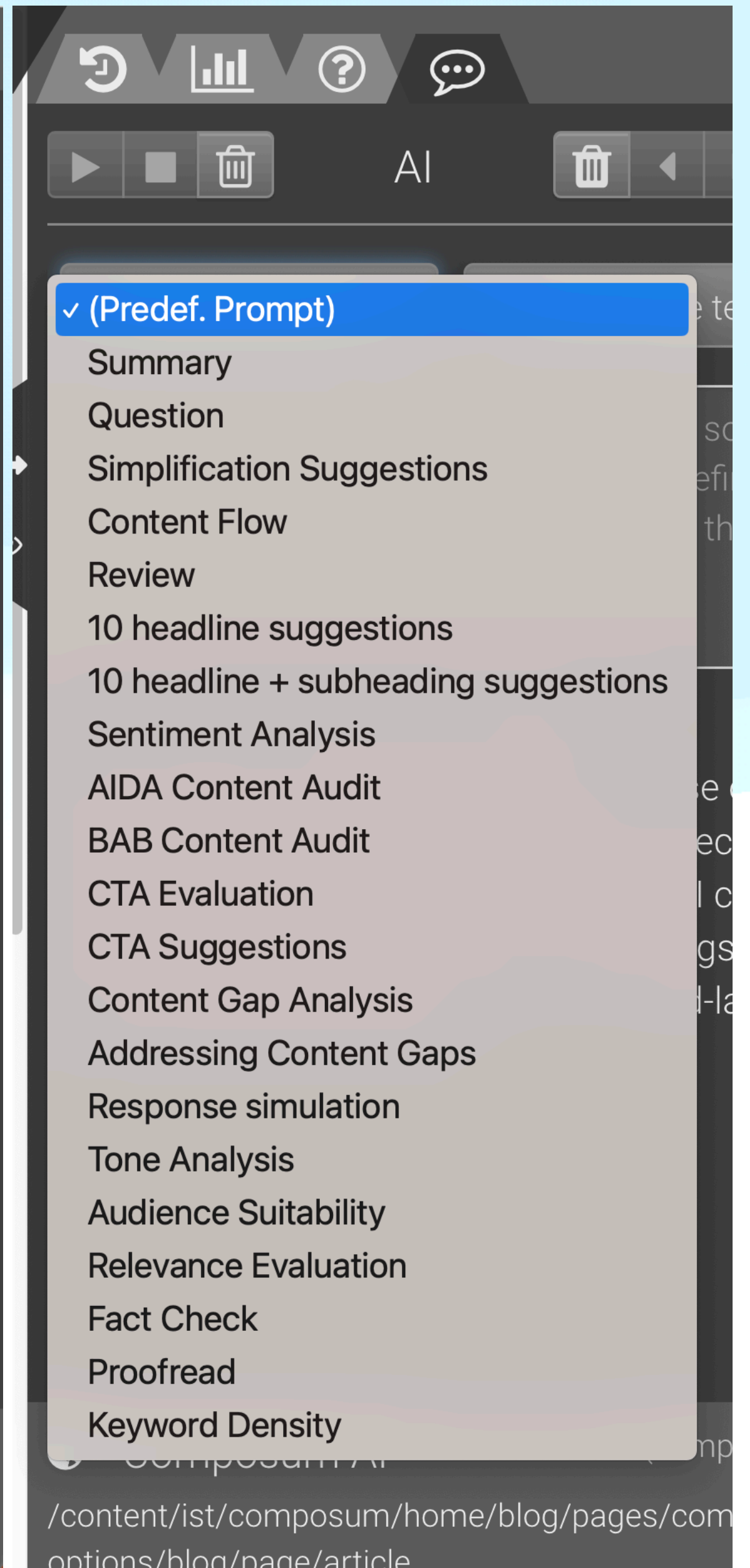
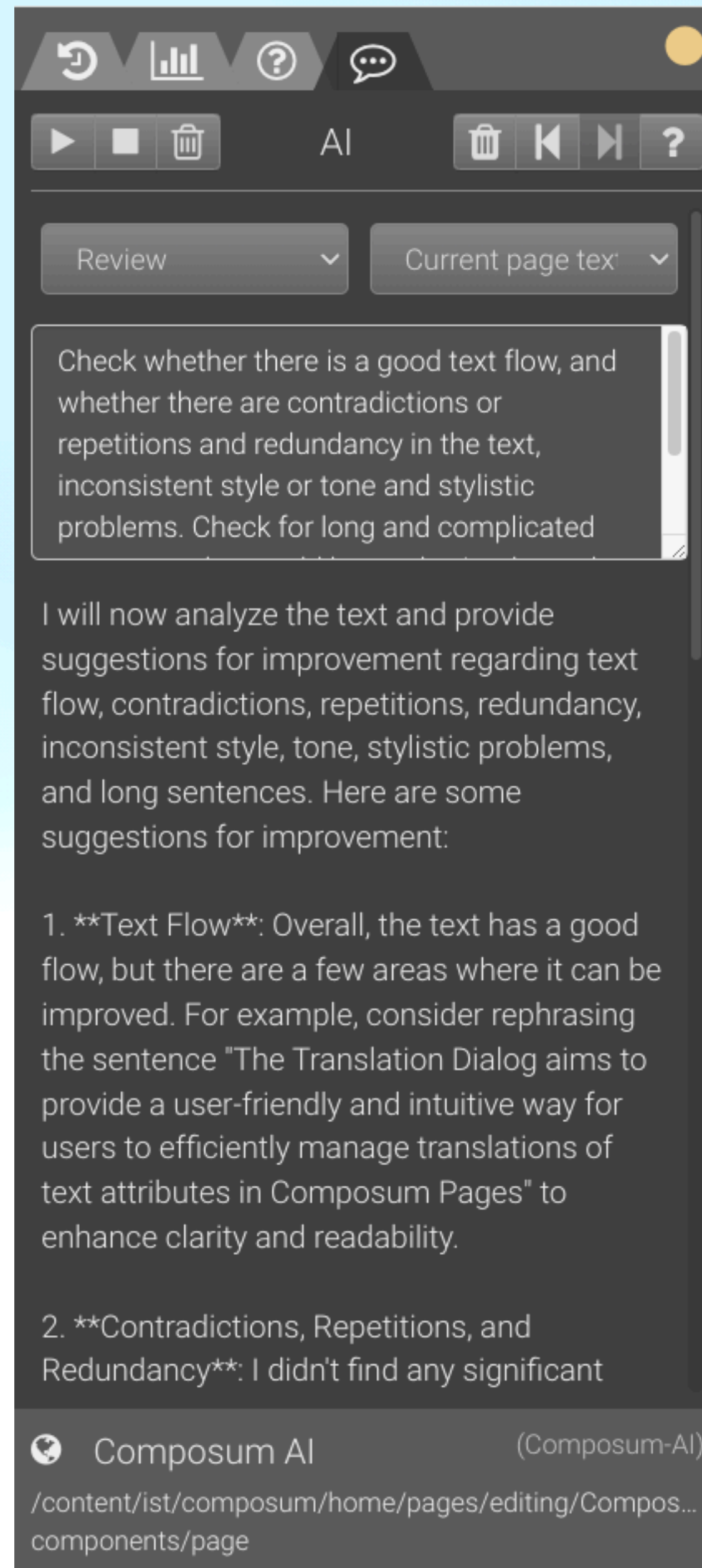
Composum AI Demo

Dialogs part 2

Sidebar AI

- prompt library as examples
- chat feature
- base text: current page, current component
- history

(similar features on creation dialog)



Composum AI in Adobe AEM Features

- Content-Creation Assistent, Side Panel AI
- Unterstützung von Textfeldern und Richtext Editoren in
 - Pages
 - Experience-Fragments
- AEMaaCS, AEM 6.5 geplant

Composum AI AEM Demo

Side panel AI + Creation

Composum AI

CTA Evaluation

Add current page text

Triggers the content generation according to the instructions and the source text. Please give that a couple of seconds.

Examine the current call-to-action (CTA) in the text. Does it compel the reader to take the desired action? Is it clear and persuasive? Are there ways to improve it? If

The current call-to-action (CTA) in the text is a link to the "Bali Surf Camp" adventure. While it is clear and provides a direct path for the reader to take action, it could be more persuasive and emotionally engaging. To improve the CTA, it could be rephrased to something like: "Experience the thrill of surfing in Bali! Join our Bali Surf Camp and ride the waves in warm tropical waters. Book now for an unforgettable adventure!" This revised CTA is actionable, emotionally engaging, and concise. It creates a sense of excitement and

New Adve 2021

Go somewhere increc...
challenging on a numbe...
We've made several ch...
adventures to make the...
fre...
All adventures offer a no-...
no q...

Prompt

Overwrite Input Prompt with Predefined Prompt

Input Prompt (Instructions)

Please write an eloquent introduction for the text, in the style the text is written.

Source

Overwrite Source Content with the text from ...

Current page text

Source Text

WKND is a collective of outdoors, music, crafts, adventure sports, and travel enthusiasts that want to share our experiences, connections, and expertise with the world. Our objective is create a community to help like-minded adventure seekers find fun, engaging, and responsible ways to enjoy life and create lasting memories.

We believe the best adventures and activities are those that are accessible to everyone. WKND is designed to be inclusive of all age ranges, abilities, and budget-levels. We strive to cater to the thrill-seeking adrenaline junkie BASE-jumpers as well as novices that have a spare weekend and interest in trying

Generate Stop Reset Text Length one paragraph

Reset History Back Forward

Content Suggestion

Welcome to WKND, where adventure meets community. In this collection of frequently asked questions (FAQs), we aim to provide you with the answers you seek about our collective of outdoors, music, crafts, adventure sports, and travel enthusiasts. At WKND, our mission is to share our experiences, connections, and expertise with the world, creating a vibrant community of like-minded adventure seekers. Whether you're a thrill-seeking adrenaline junkie or a novice looking to try something new, we believe that the best adventures are those that are accessible to everyone. Join us as we embark on a journey to find fun, engaging, and responsible ways to enjoy life and create lasting memories.

Hintergründe

Chat Completion API

ChatGPT-3.5 (andere nach Bedarf/Verfügbarkeit)

"Liefere eine zu dieser Unterhaltung passende Antwort"
- nicht auf reale Unterhaltung festgelegt!

- Hintergrundinformationen, Beispiele für erwartete Antworten, Instruktionen, Daten
- Pattern zur Trennung Daten / Instruktionen:
"die Daten der KI in den Mund legen"
-> stabiler gegen prompt injection

Human: Hi!
Assistant: Hi! How can I help you?
Human: Make a haiku about Compositum!
Assistant: ?

Human: Please retrieve the text to process.
Assistant: \${pagetext}
Human: Please complete the following instructions that relate to this text. PROMPT: \${instructions}
Assistant: ?

KI in der Entwicklung

ChatGPT und Github Copilot

- Github Copilot in der IDE ein Muss!
 - gut beim Aufnehmen von Mustern
 - auch für erfahrende Entwickler extrem hilfreich
 - Trick: Kommentare zuerst schreiben!
- ChatGPT:
 - für Fachkonzepte, als Diskussionspartner und Klärung von Problemen super hilfreich, Coding, Script Factory

ChatGPT für Fachkonzepte

- Feature Spezifikationen von Composum AI stark ChatGPT unterstützt (Beispiel [/featurespecs/\[0-5\]*.md](#))
- Schrittweiser Prozess, mit Abschnitten im .md:
 - Manuell geschrieben: basic idea, implementation decisions, out of scope
 - Automatisch generiert nach und nach: user workflow, dialog elements, dialog structure, dialog preview, test cases
- Gefühl: "rapid prototyping" der Spezifikation
- <http://www.stoerr.net/blog/writingSpecs>

ChatGPT als Scriptfactory

Einfache Tools schreiben wird trivial einfach

Prompt-Fragment:

Please generate a script for the command line for the following task, runnable on MacOS with arm64 architecture. It can be either a bash script using any of the normally present MacOS command line tools or what is installable with homebrew, or a NodeJS script for version 19.5.0 without additional libraries. If called without arguments or with the argument --help, the script should print a short description what it does, and what arguments it expects.

<http://www.stoerr.net/blog/scriptfactory>

Entwickeln mit ChatGPT Plugin

<https://github.com/stoerr/DevelopersChatGPTToolBench>

- Start in beliebigem Verzeichnis
- Zugriff durch ChatGPT innerhalb eines Chats auf dieses Verzeichnis
 - suchen, lesen, ändern von Dateien
 - Webzugriff (URL -> Markdown für ChatGPT)
 - Ausführen konfigurierter Aktionen (z.B. Build, Testlauf)
- Beispiele: Git Commits in diesem Projekt, die mit "ChatGPT: " anfangen

KI Bedenken

- "Halluzinationen", Prompt-Injection
für beides Lösung manuelle Kontrolle - in unserem Szenario automatisch erfüllt
- Datenschutz:
Business Services ChatGPT Enterprise / Microsoft Azure OpenAI service erfüllen viele Anforderungen, zunehmend weitere Alternativen

Ausblick Composum AI

Composum AI ist nutzbar wie es ist. Leichtgewichtige Integration.

Für Produktivbetrieb wünschenswert, aber stark anwendungsabhängig

- konfigurierbare Einschränkungen
- editierbare, sitespezifische / personalisierte Prompt-Library

Andere Backends als ChatGPT je nach Verfügbarkeit / Bedarf

Andere CMS als Composum / AEM?

Zum Ausprobieren der Composum AI

- cloud.composum.com (zum Testen)
- [Docker / lokale Instanz www.composum.com/setup.html](https://www.composum.com/setup.html)
- Source and Releases github.com/ist-dresden/composum-AI
- Sprechen Sie uns an!

Weitere Informationen

- www.composum.com
- github.com/ist-dresden/composum-AI
- <http://www.stoerr.net/blog.html> Hintergründe, <https://github.com/stoerr>
- Kontaktieren Sie uns
 - hans-peter.stoerr@email.de / www.stoerr.net - Austausch gesucht!
 - www.composum.com/home/contact.html