

TV Knowledge Graph

- **Market research, expectations & exploration of state of the art** & future developments, e.g. for query languages for graph databases (neo4j, sparql, wolfram alpha)
- **Extending and scaling knowledge graph** for analysis and object management, e.g. managing multiple graph databases, scaling user UI to millions of users
- **Flow-based programming** (OSX automator), e.g. user friendly UI, support different flow algorithms
- **Ontology engineering in different domains**, e.g. Social (people), Entertainment (celebrities, tv-shows, movies), Commercial landscape (Brands, Products, Merchants), UI Components (frontend representations), Flow Actions (workflow management), Render Pipelines (when to serve what to users), CMS Workflows (publishing mechanisms, editor workflows and governance), Website Navigation (user flows),
- **User experience optimization** on all devices; deploy on innovative devices, e.g. glasses, watches
- **Natural language search**



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User-Adaptive Engine

C-CONTENT develops the **MY-LEX® content integration platform**, which powers various domain specific information portals, i.e. fiscal, legal or governmental information. High domain relevancy and a vast document collection are the key features for the success of these information portals.

Improve on user satisfaction → provide users with information relevant to them

- Design of a self-learning engine to determine which information is relevant to the user based on, e.g. knowledge of the user's role, location and behavior (personal profile)
- Design pro-active mechanisms, e.g. pushing news or recommending interesting documents
- Design reactive mechanisms, e.g. user-specific search result ranking

Keywords: user-adaptive behavior, personalization, information retrieval, recommender systems, data mining, machine learning, geo-spatial search, C# and .NET.



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