

**arKitect** 

## **Model Driven Engineering**

**Bojan Arnaudovski**  
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# Introduction



Knowledge Inside  
arKitect your system

- Representation and Design of complex, hierarchical systems
- First version in 2007 by Knowledge Inside (Samuel Boutin, Joe Matta and Konstantin Smolin )
- Renault, Cheuvreux, Bouygues, PSA, Ansaldo STS, EADS, Thalès (satellites), EDF and Schneider Electric

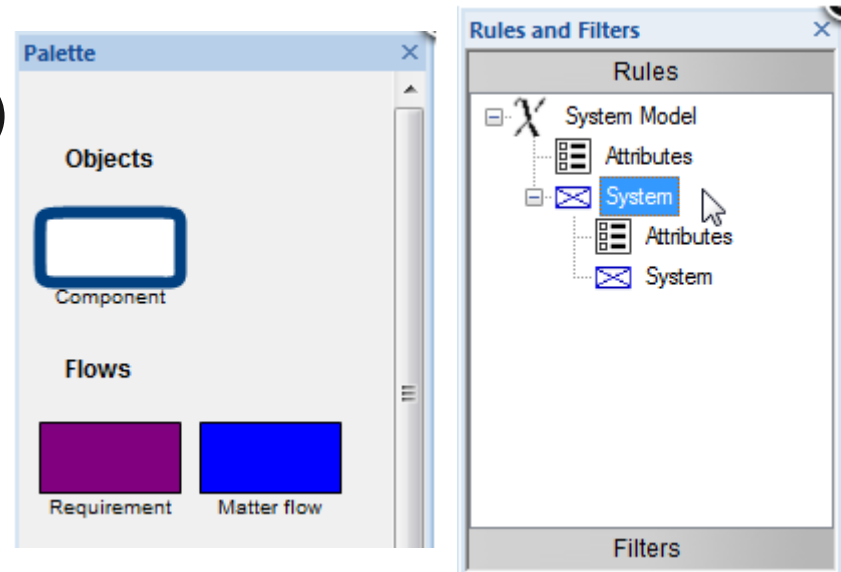


- Graphical representation
- Generation of documents/reports (XML, Word, Excel and HTML)
- Two user types:
  - **Developer** (hierarchical and graphical system representation, multi-view visualization, variants management and additional functionalities along Python scripting)
  - **Designer** (defining your own modeling language and multiple views on the system)

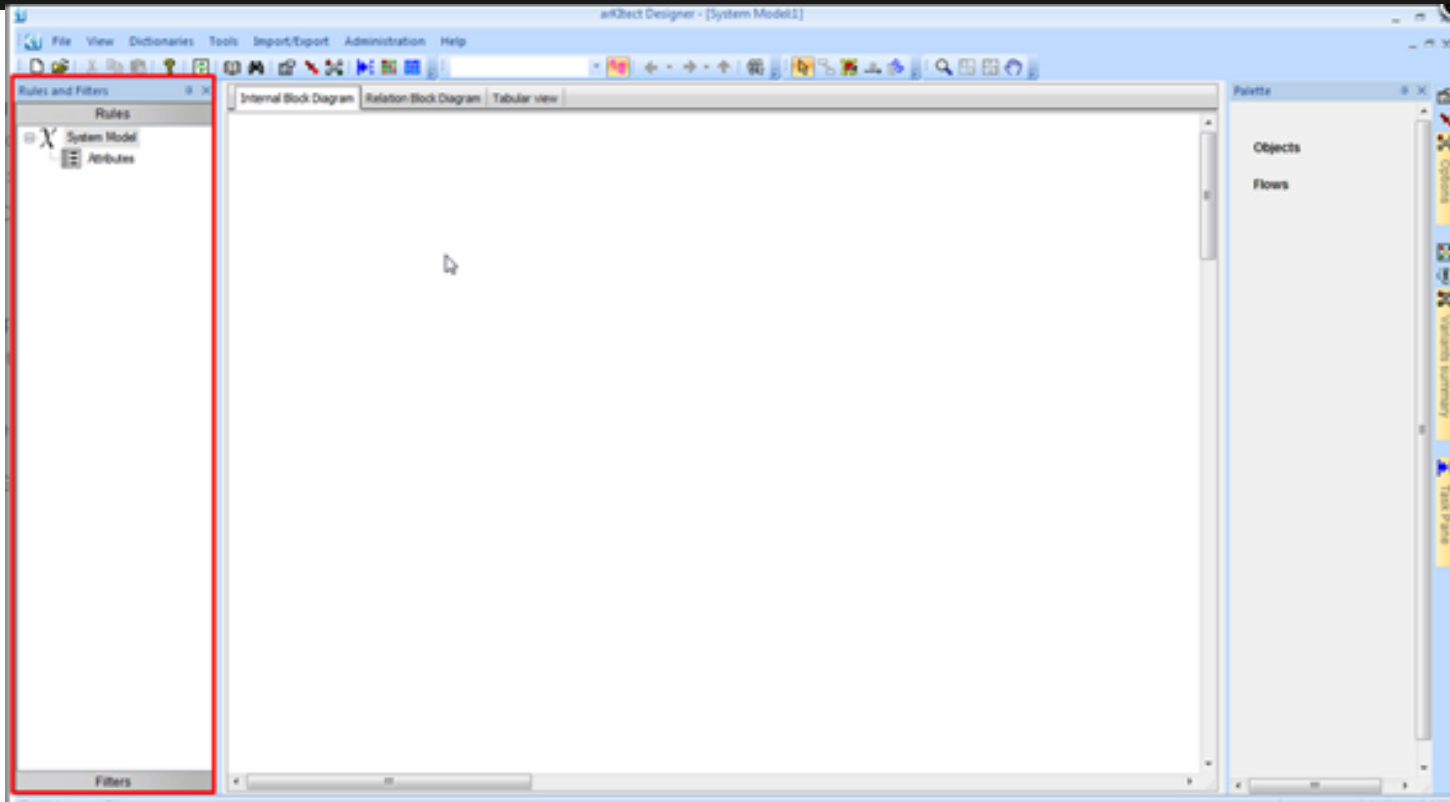



# arKitect Designer

- Rules and Filters panel, Internal Block Diagram/Relation Block Diagram/Tabular view and palette of the object representation
- Define Rules (Objects, Flows)
- Define Filters (Projections)

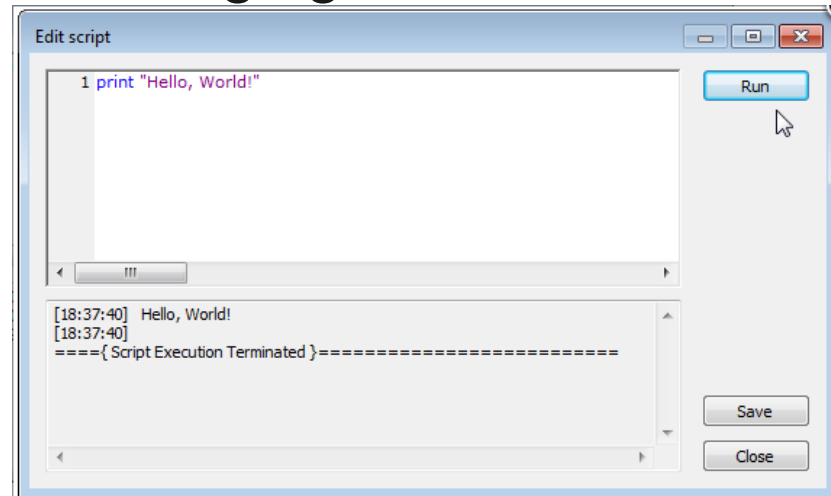


# Designer Environment



- two ways for collaboration between users
  - share a project (saved on a server (HTTPS connection) not locally)
  - alert and notifications by email
    - within arKItect
    - Python Script
- Versioning in arKItect (History, Comparison and erging)

- Import/Export data (XML, Word, Excel and HTML)
- Python Scripts
- Performance (cleaning ports and charging the diagrams)



# References

- arKItect documentation, <https://support.k-inside.com/display/ARKI22/arKItect+2.2.x+documentation+home>
- arKItect page, <http://www.k-inside.com/web/>

