

*Vorlesung an der Universität Innsbruck  
Sommersemester 2010*

# **Trends der Rechtsinformatik**

*5. Teil*

*Visualisierungen zu JURISIN 2008  
in Asahikawa, Hokkaido, Japan, Juni 10, 2008*

*Univ.-Prof. Dr. Friedrich Lachmayer*

*22nd Annual Conference of the Japanese Society  
for Artificial Intelligence 2008*

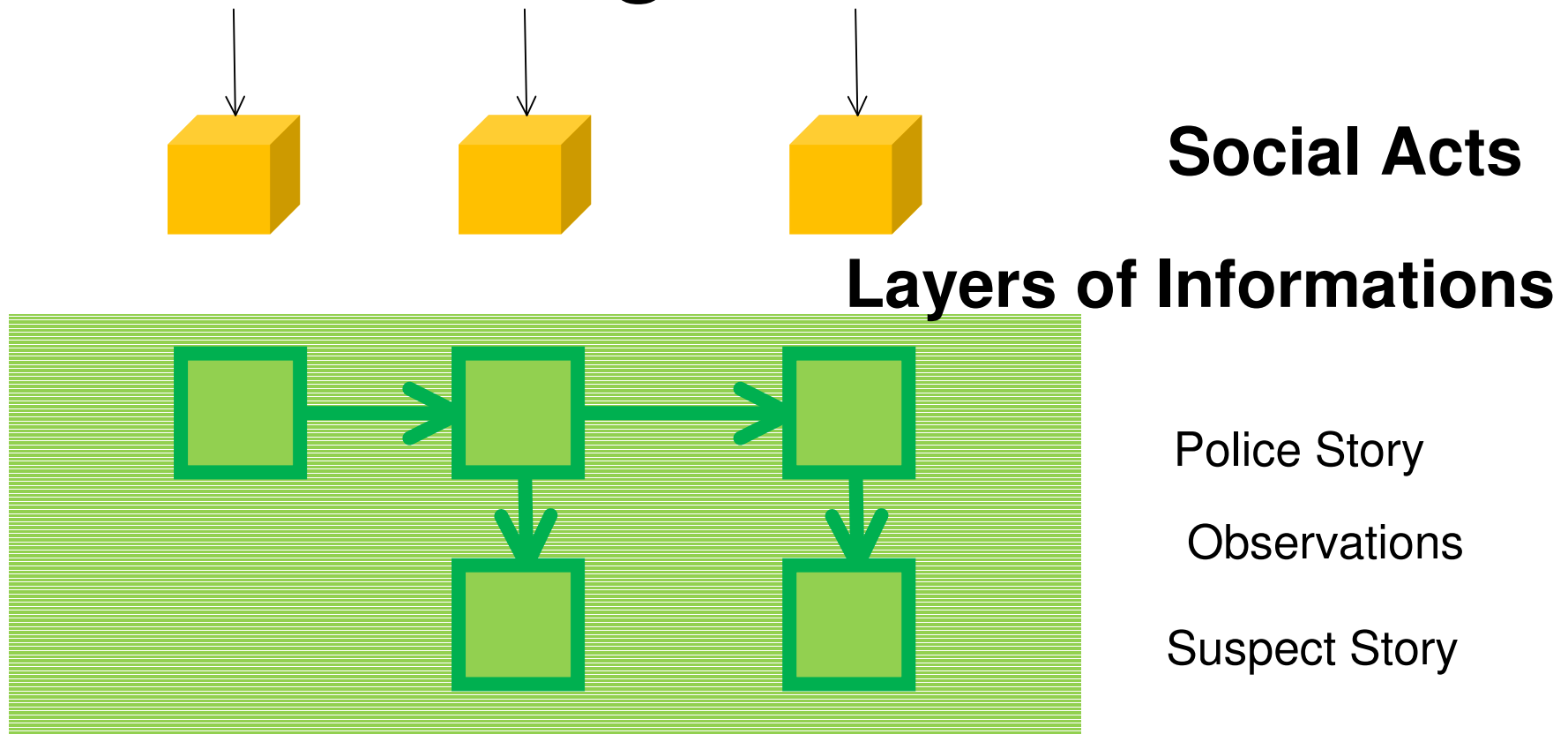
# **JURISIN 2008**

*Second International Workshop on Juris-Informatics*

*Asahikawa, Hokkaido, Japan  
June 10, 2008*

# Story-Telling

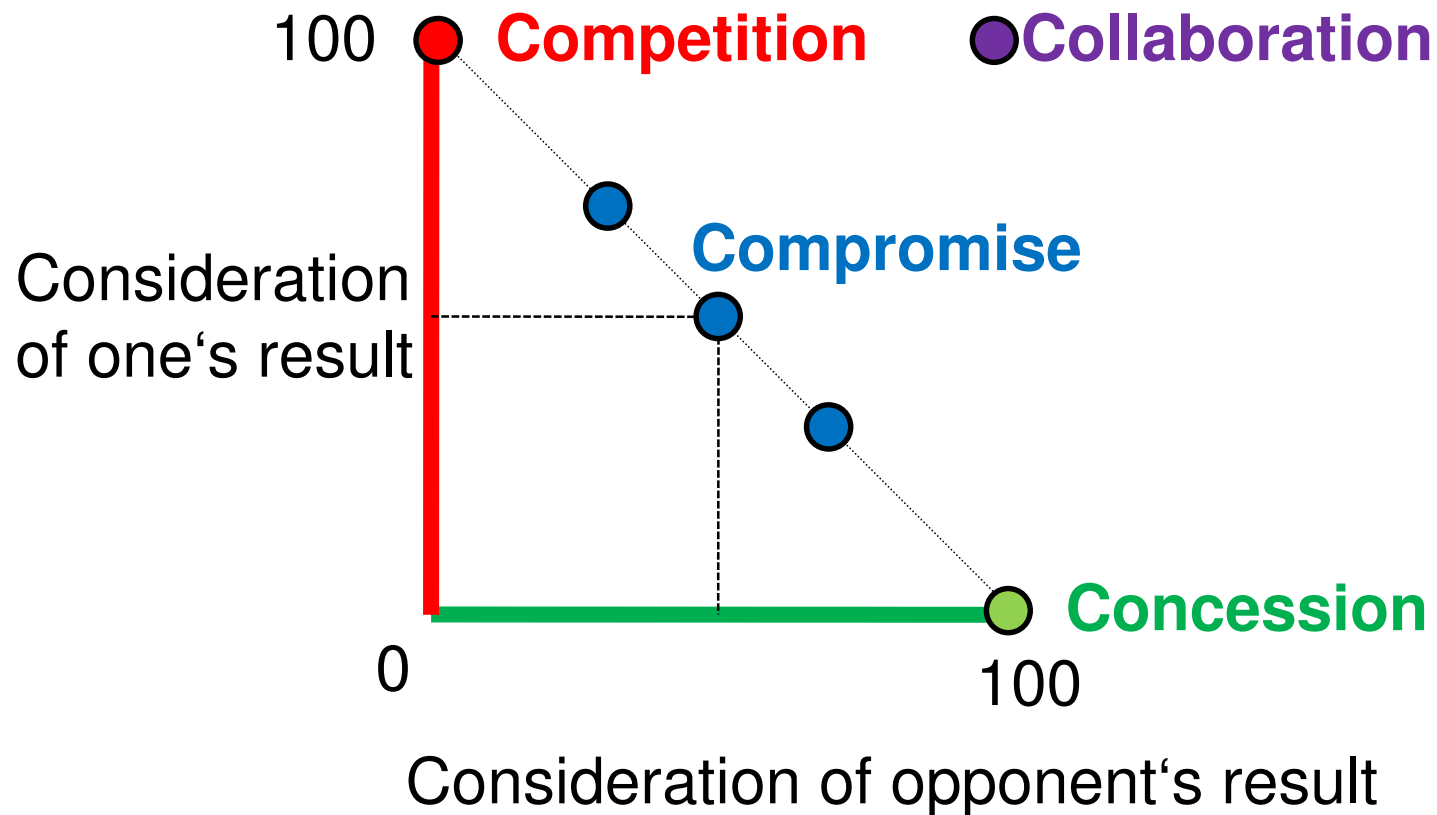
# Sense-making Systems for Legal Reasoning about Evidence



# Dialektik

# Computational Dialectics

Based on Specialization and Generalization  
A New Reasoning Method for Conflict Resolution



*JURISIN2008*

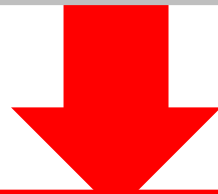
*Hiroyuki Kido and Masahioto Kurihara, Hokkaido University*

# Computational Dialectics

**Based on Specialization and Generalization**  
**A New Reasoning Method for Conflict Resolution**

Type of Reasoning:

**Deduction**



Things to be sought:  
Conclusion



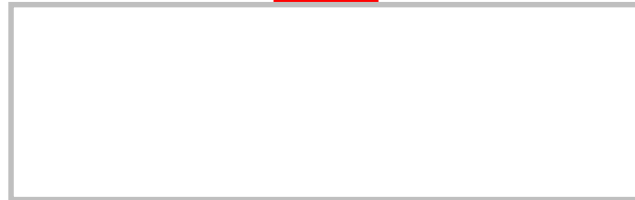
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# Computational Dialectics

**Based on Specialization and Generalization  
A New Reasoning Method for Conflict Resolution**

Type of Reasoning: **Induction**



Things to be sought:  
General Rules



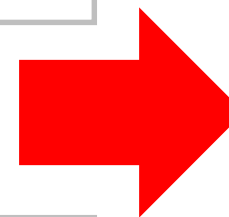
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# Computational Dialectics

**Based on Specialization and Generalization**  
**A New Reasoning Method for Conflict Resolution**

Type of Reasoning: **Abduction**



Things to be sought:  
Hypothesis

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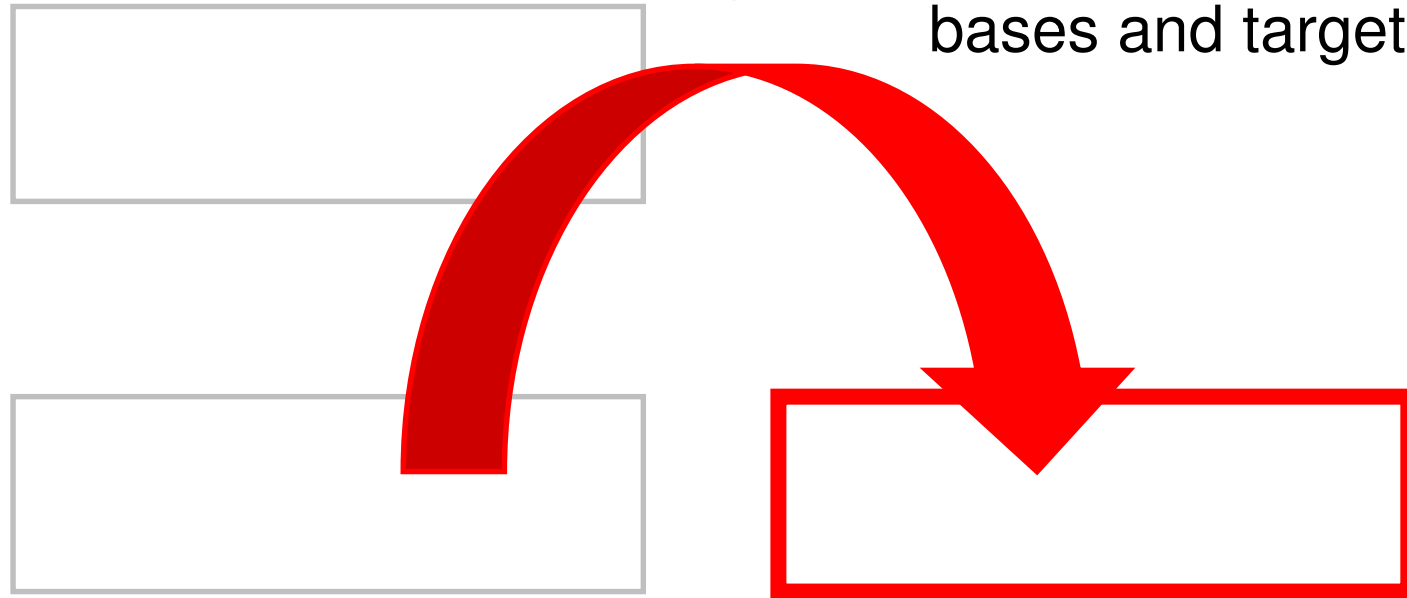
*Hiroyuki Kido and Masahito Kurihara, Hokkaido University*

# Computational Dialectics

**Based on Specialization and Generalization**  
**A New Reasoning Method for Conflict Resolution**

Type of Reasoning: **Analogy**

Things to be sought:  
Correspondences of  
bases and targets



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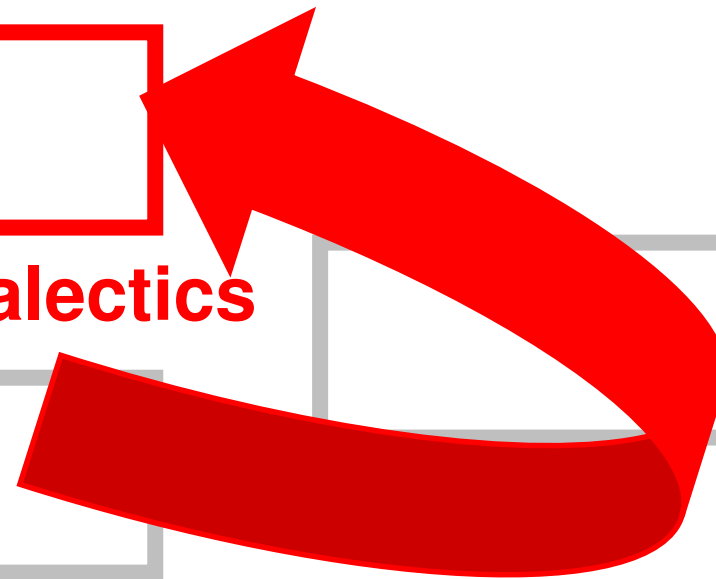
# Computational Dialectics

**Based on Specialization and Generalization  
A New Reasoning Method for Conflict Resolution**

Things to be sought: Higher-order agreements



Type of Reasoning: **Dialectics**



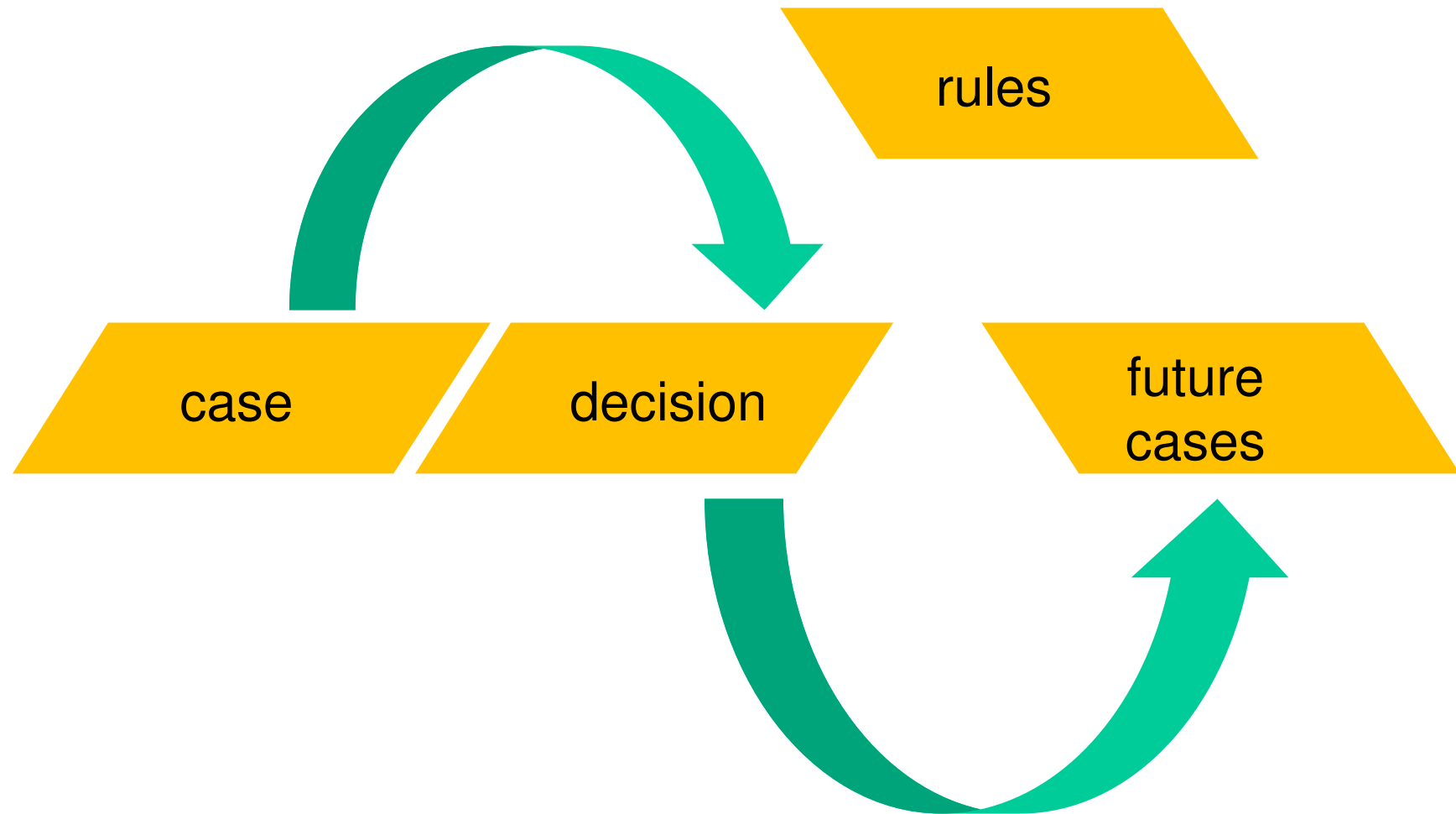
Things to be sought: Truth by dialogue

# **Präjudizsystem der Fälle**

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*Yoshiharu Matsuura, Nagoya University*

# Law as Engineering

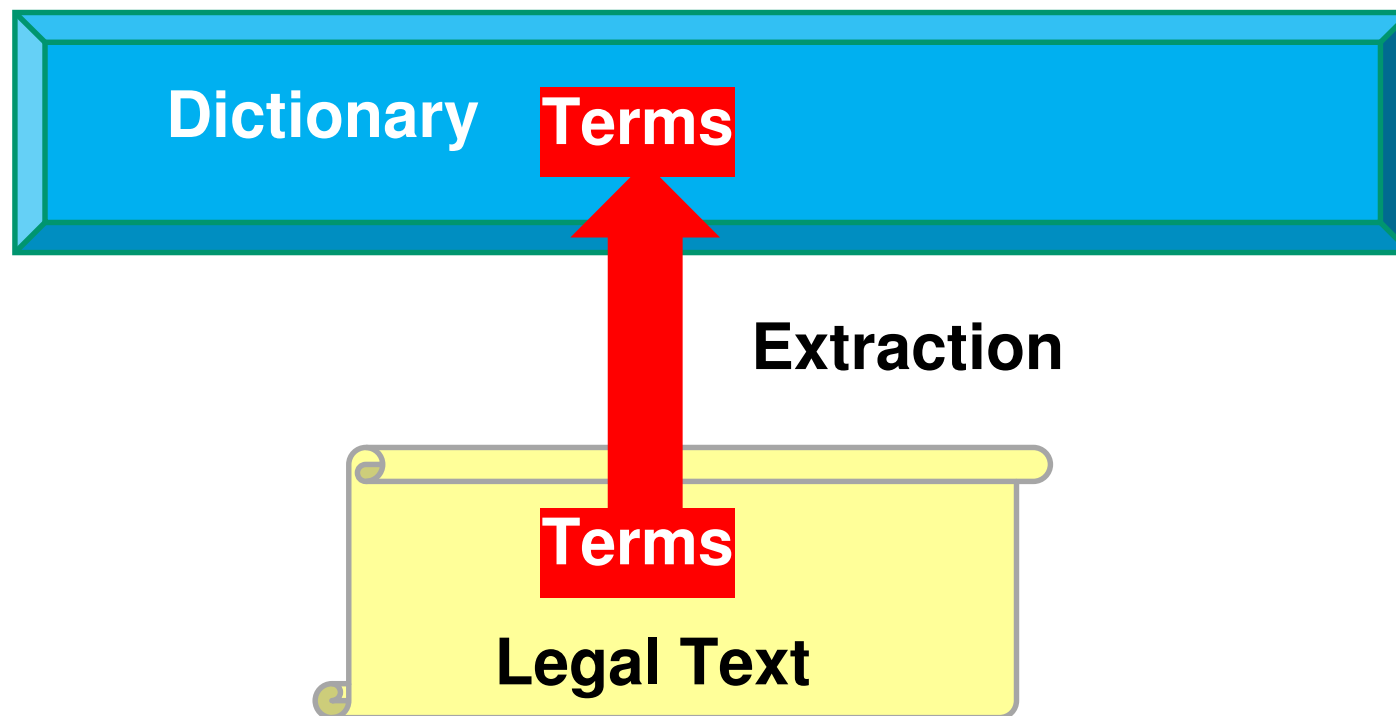


# **Begriffsbildung**

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*Yoshitaka Suzuki, Japan Advanced Institute of Science and  
Technology*

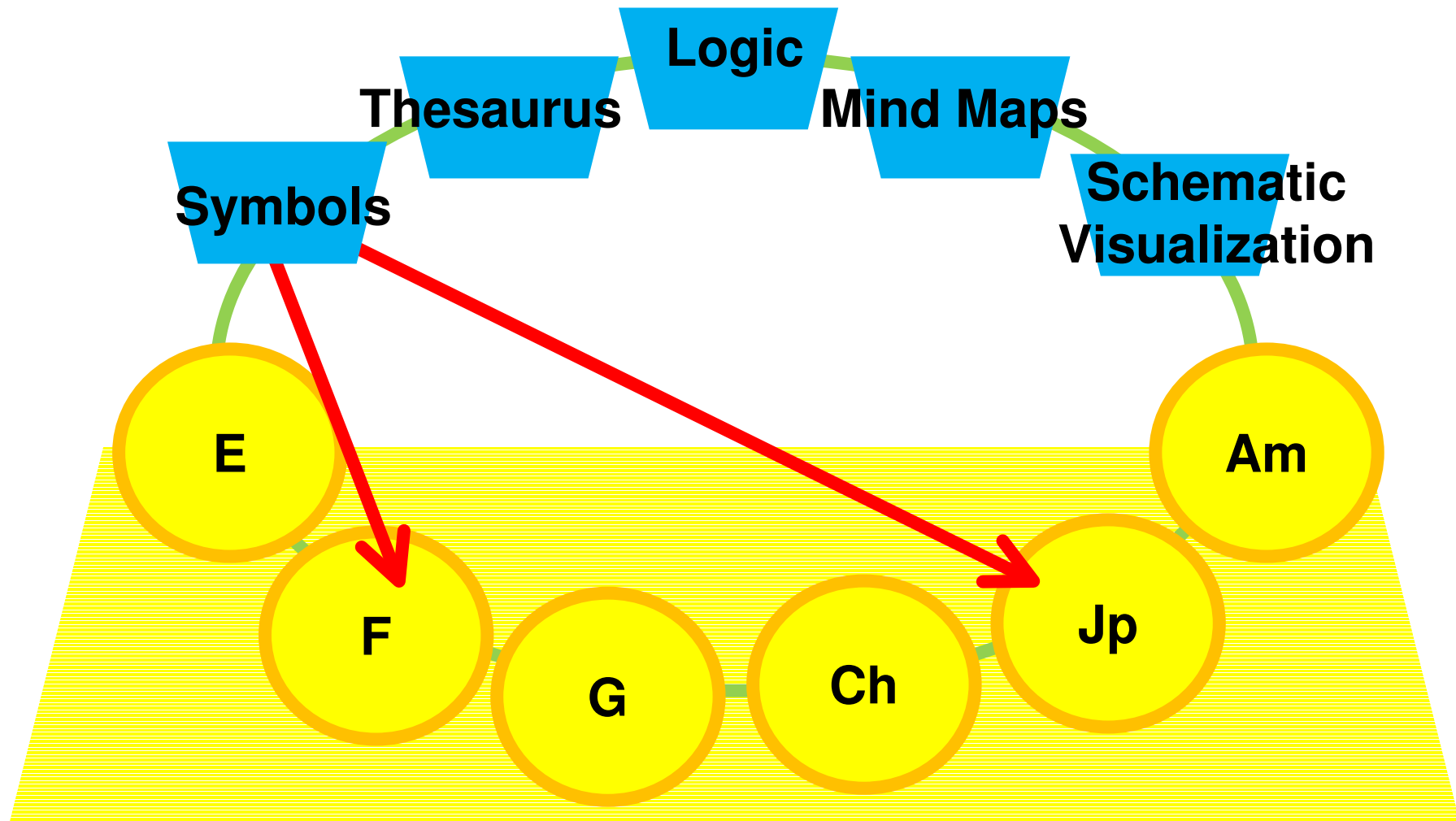
# Extraction of Dictionary Terms from Unsegmented Legal Text



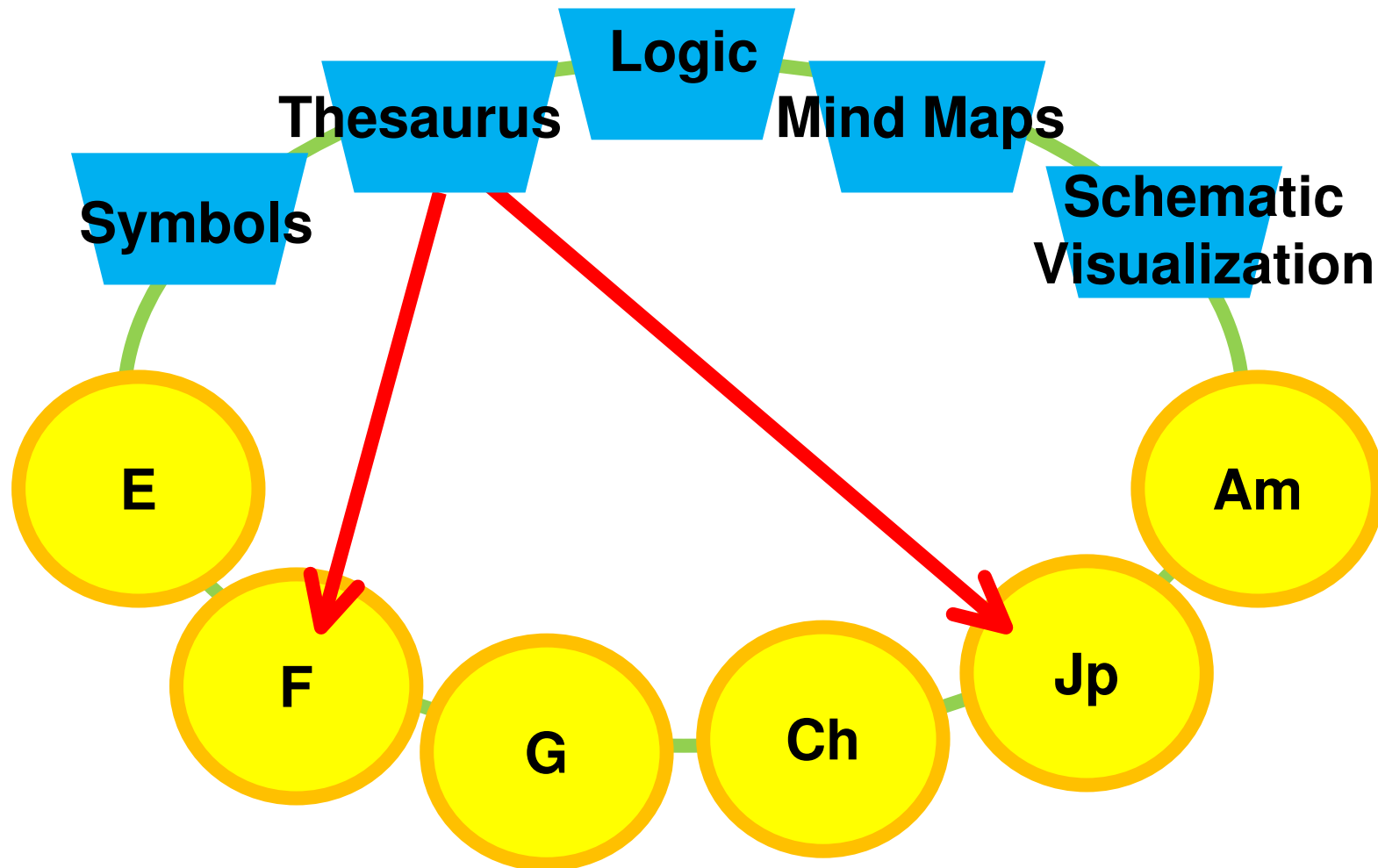
# **Sprachen Übersetzung**



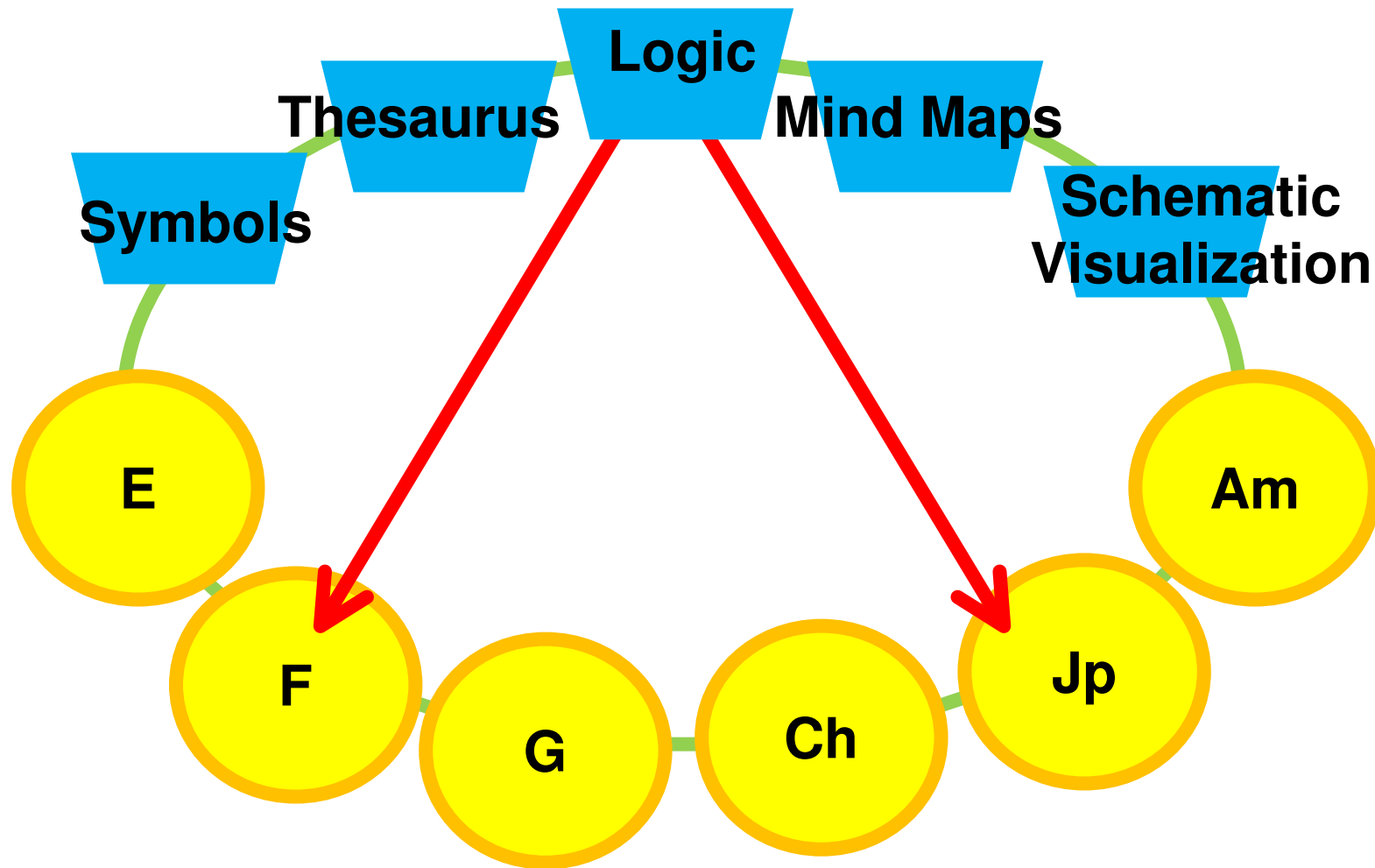
# Automatical Translation Jp $\leftrightarrow$ E



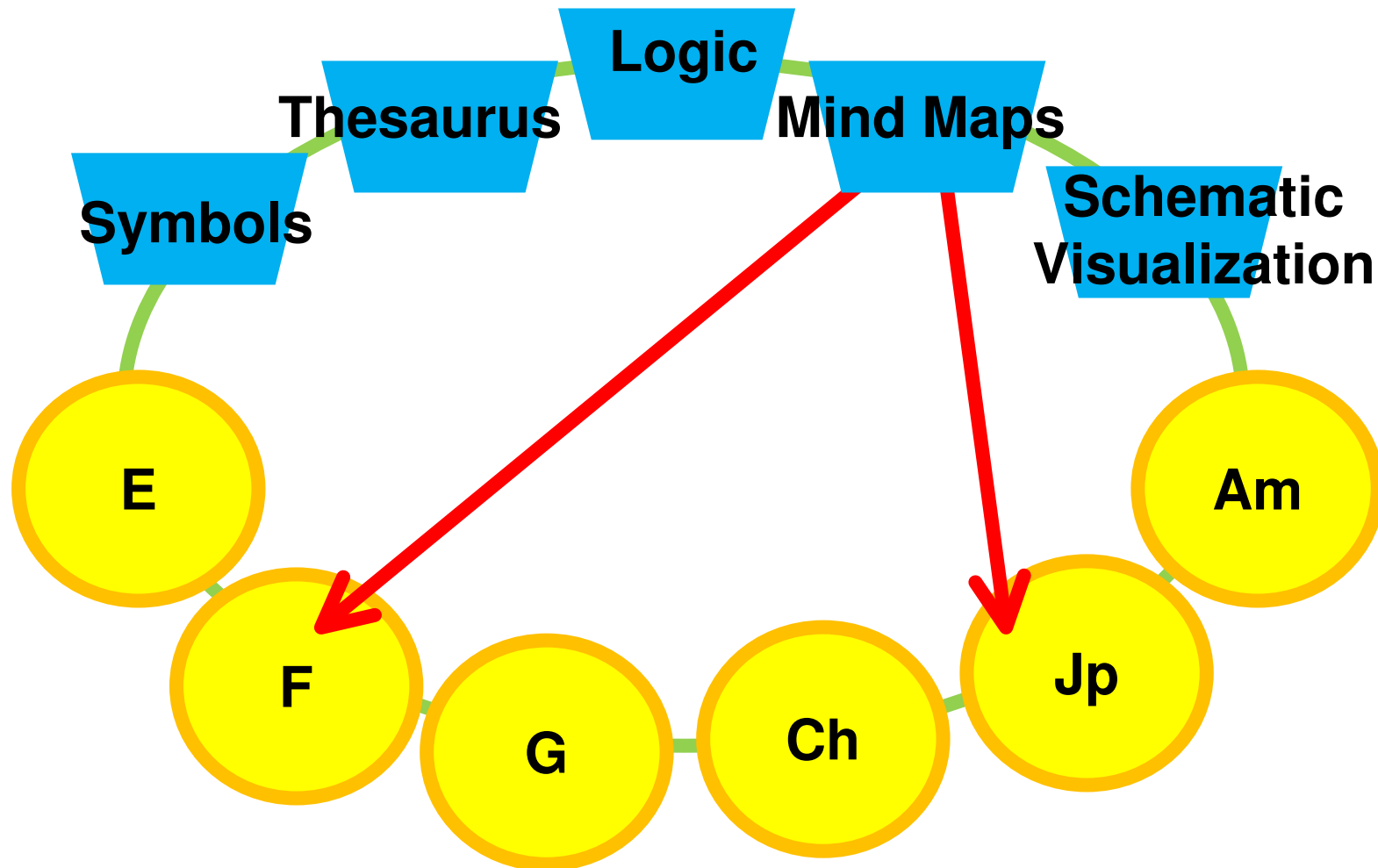
# Automatical Translation $Jp \leftrightarrow E$



# Automatical Translation Jp $\leftrightarrow$ E



# Automatical Translation Jp $\leftrightarrow$ E



# Automatical Translation Jp $\leftrightarrow$ E

