

DISTRIBUTED ODF APPLICATIONS

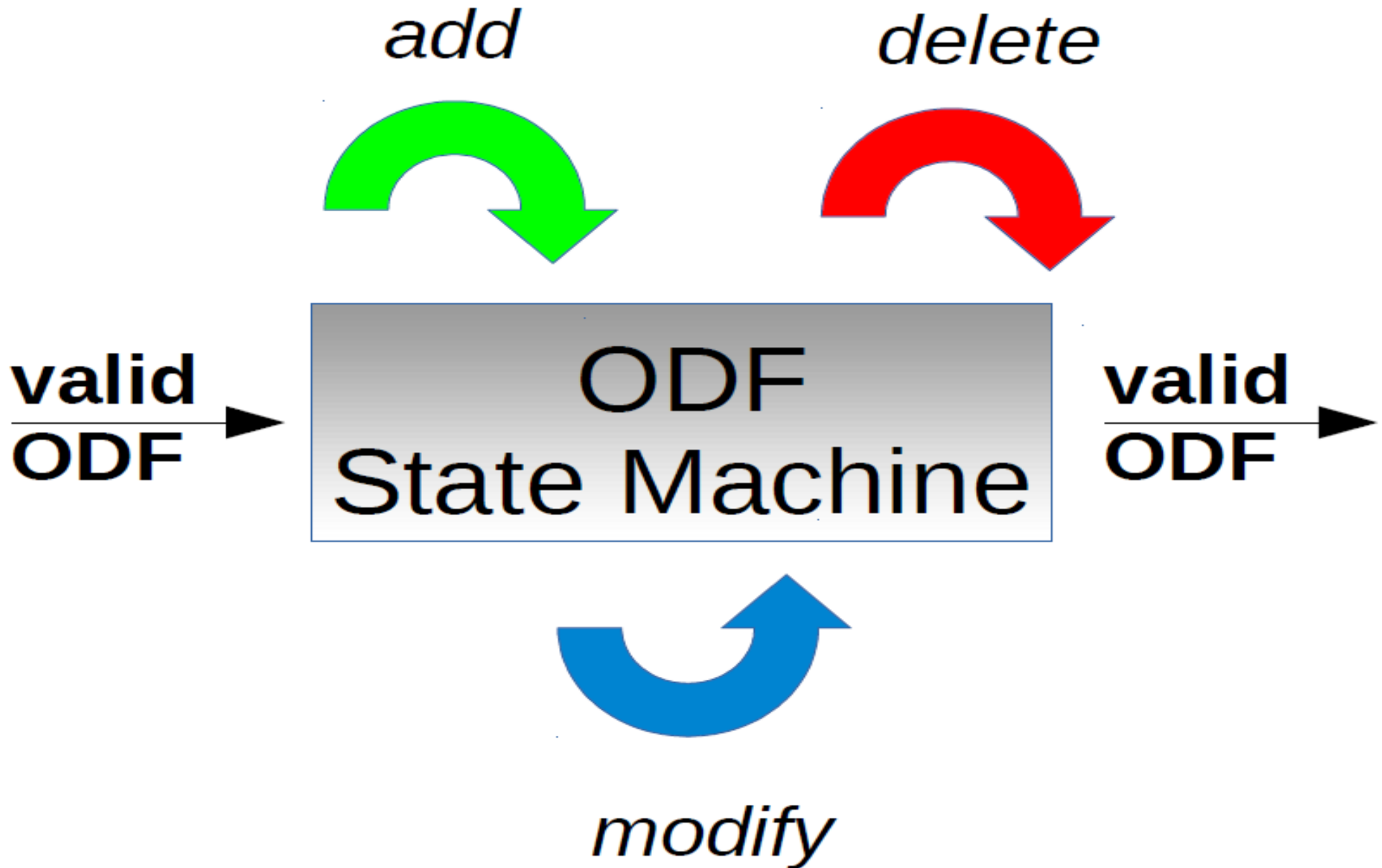
FOSDEM
FEB. 3, 2018

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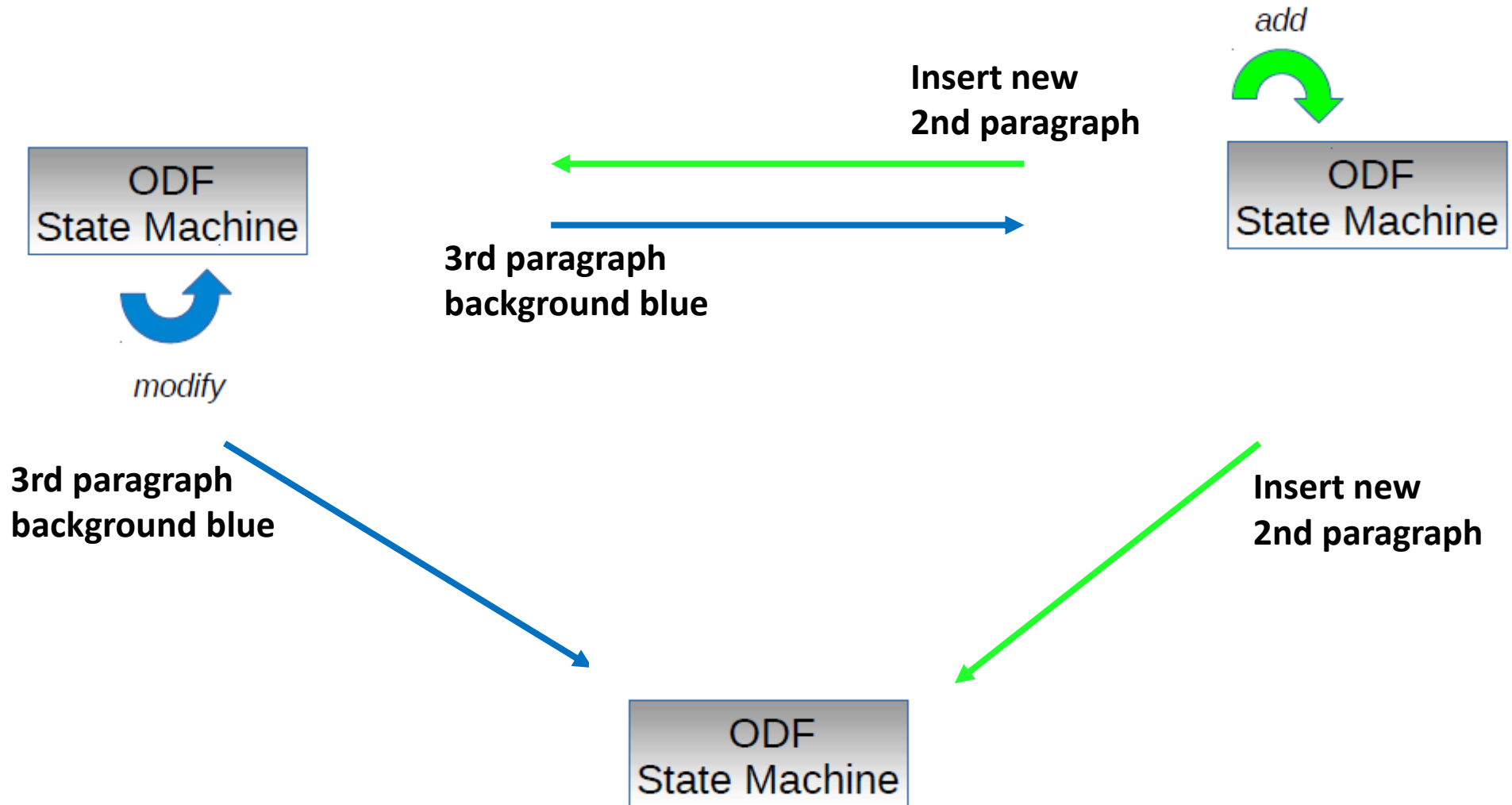
ODF APPLICATION

BIRD PERSPECTIVE



ODF APPLICATIONS COLLABORATION

BIRD PERSPECTIVE



ODF XML GRAMMAR

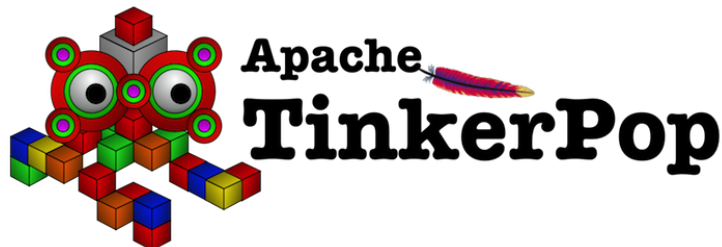
```
<define name="table-table">
  <element name="table:table">
    <ref name="table-table-attlist"/>
    <optional>
      <ref name="table-title"/>
    </optional>
    <optional>
      <ref name="table-desc"/>
    </optional>
    <optional>
      <ref name="table-table-source"/>
    </optional>
    <optional>
      <ref name="office-dde-source"/>
    </optional>
    <optional>
      <ref name="table-scenario"/>
    </optional>
    <optional>
      <ref name="office-forms"/>
    </optional>
    <optional>
      <ref name="table-shapes"/>
    </optional>
    <ref name="table-columns-and-groups"/>
    <ref name="table-rows-and-groups"/>
    <optional>
      <ref name="table-named-expressions"/>
    </optional>
  </element>
</define>
<define name="table-columns-and-groups">
  <oneOrMore>
```

ODF 1.2 documents:

- 598 XML Elements
- 1300 XML Attributes

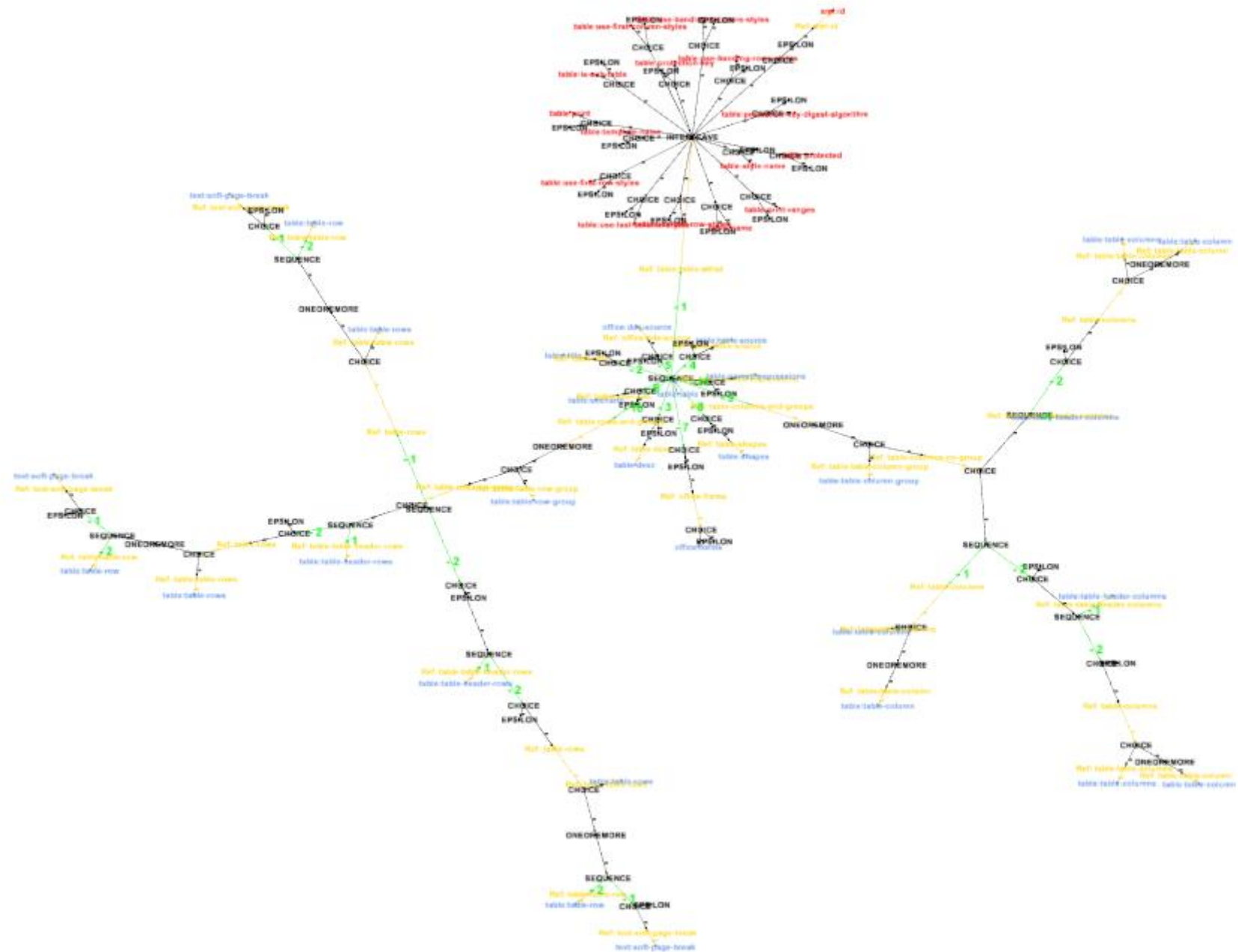
ODF XML ANALYSIS

- Mapping ODF grammar into GraphDB
- Insight in ODF structure
 - Grammar for ODT only
 - Minimal allowed ODT, ODS, ... document
 - Paragraph (...) nested?
 - Does feature test files cover all XML feature nodes?
- Using Apache TinkerPop GraphDB abstraction



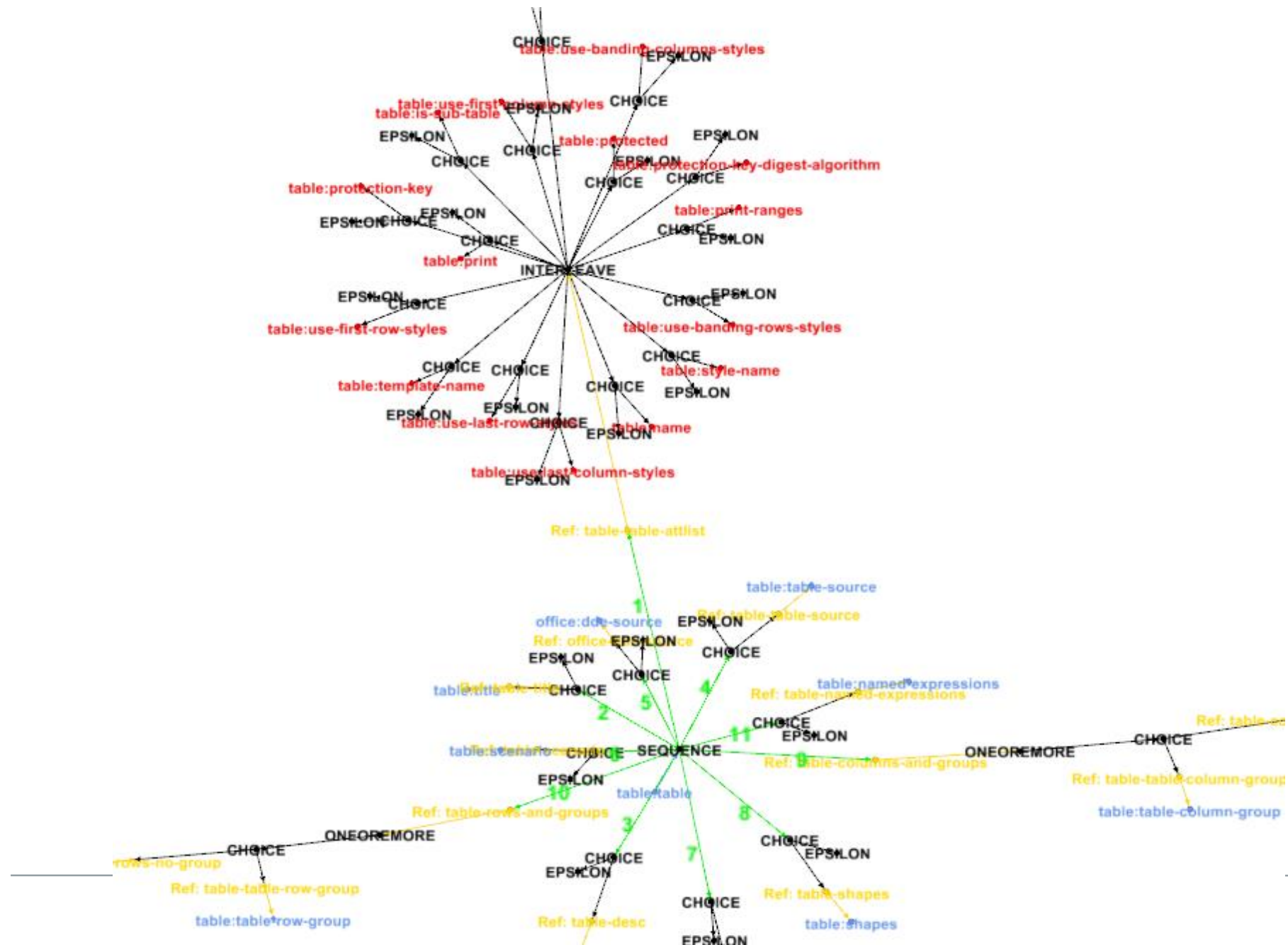
ODF GRAPH – TABLE

GEPHI VIEWER



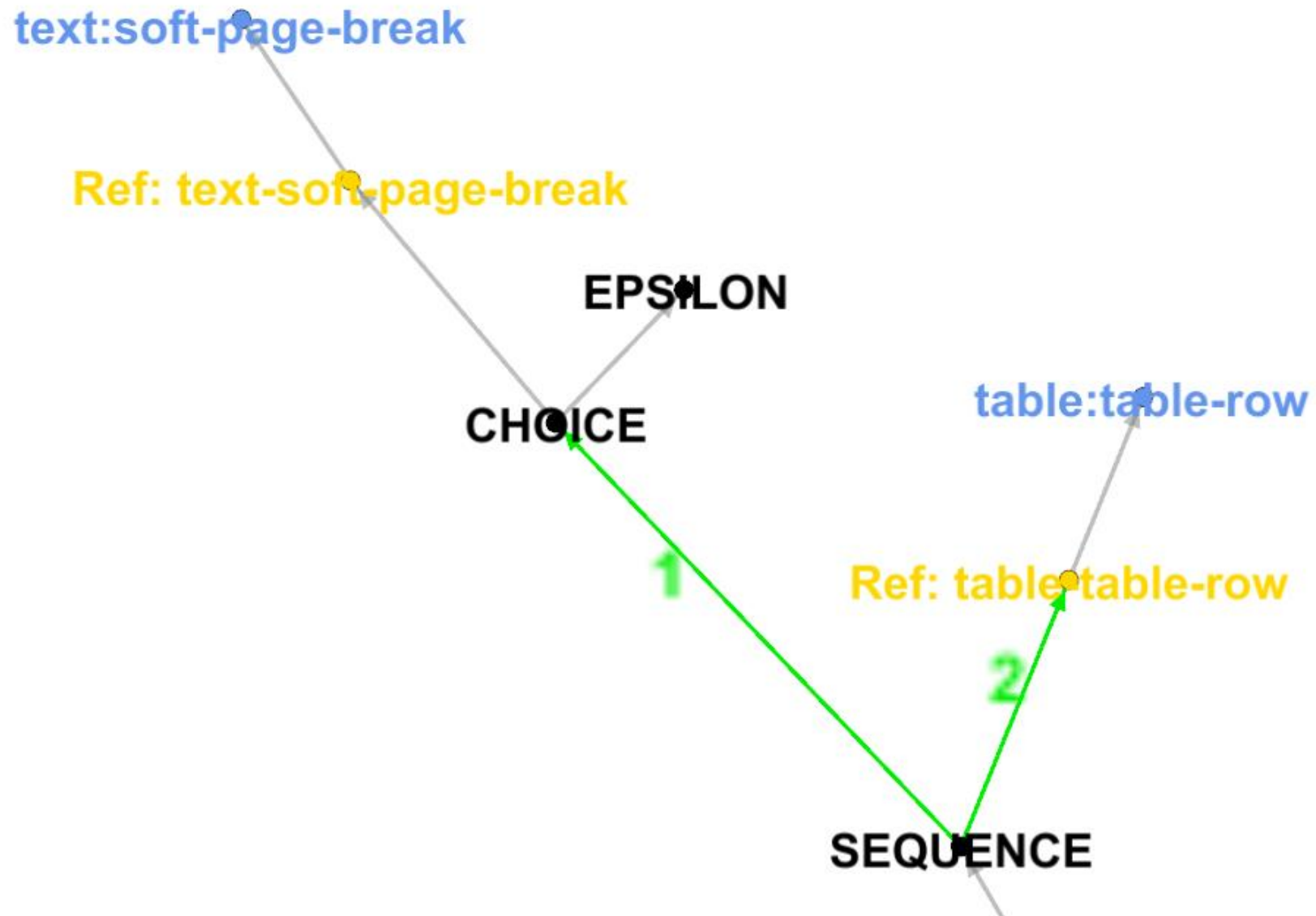
ODF GRAPH – TABLE

GEPHI VIEWER



ODF GRAPH – TABLE

GEPHI VIEWER – REFACTORING / SIMPLIFYING



ODF USER CHANGE

ADDING TO ODF GRAMMAR?



- **User changes** implicitly a de-facto standard
 - User expectation of changes across office apps
 - Adding missing information to ODF XML grammar?
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