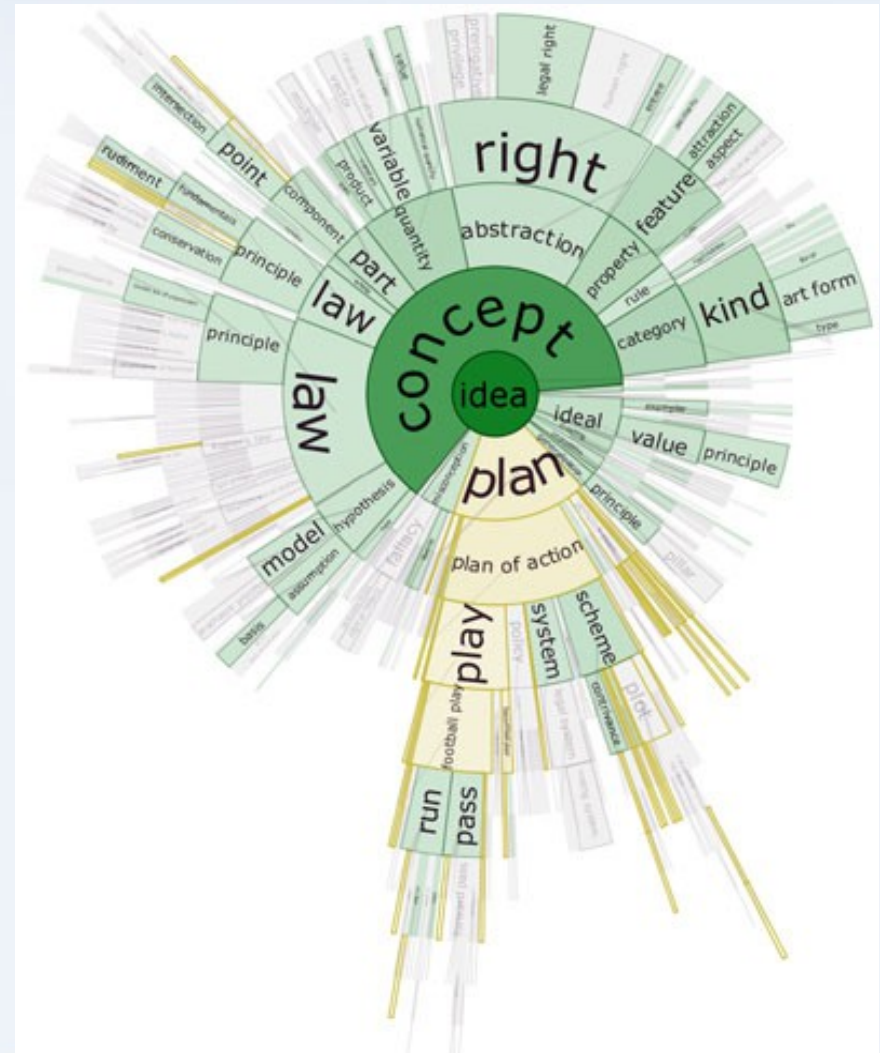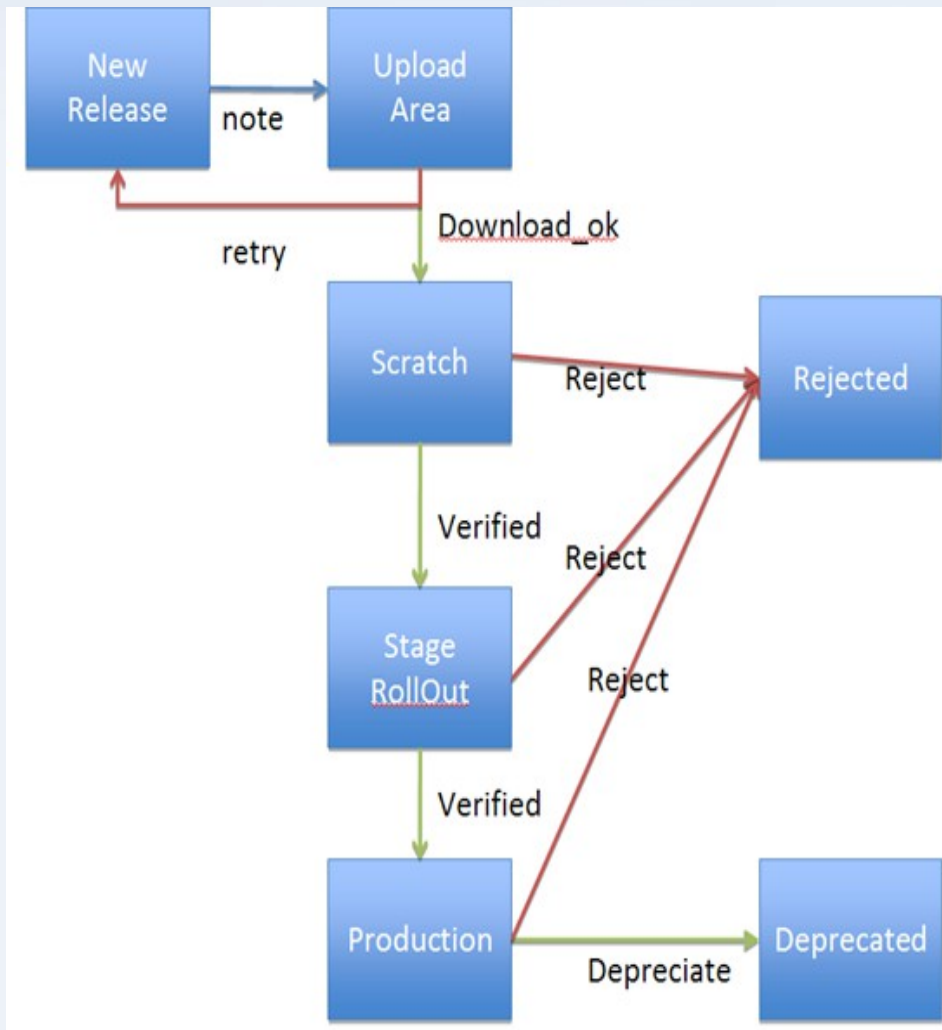# INFORMATION VISUALIZATION

Carlos José Díaz Baños
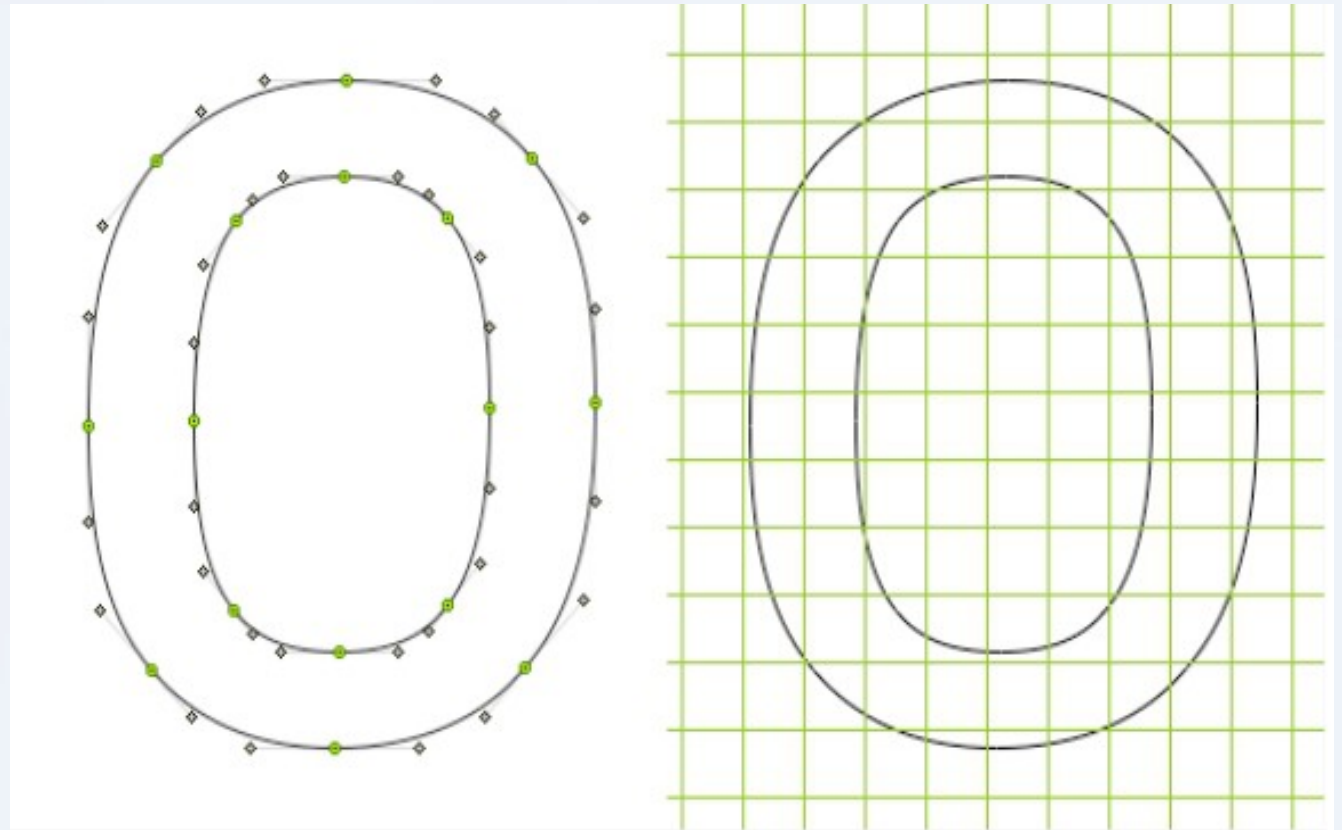## Erik Andreasson

Motivation

- Why is important the visualization of the information?

- Why an application in 3D?

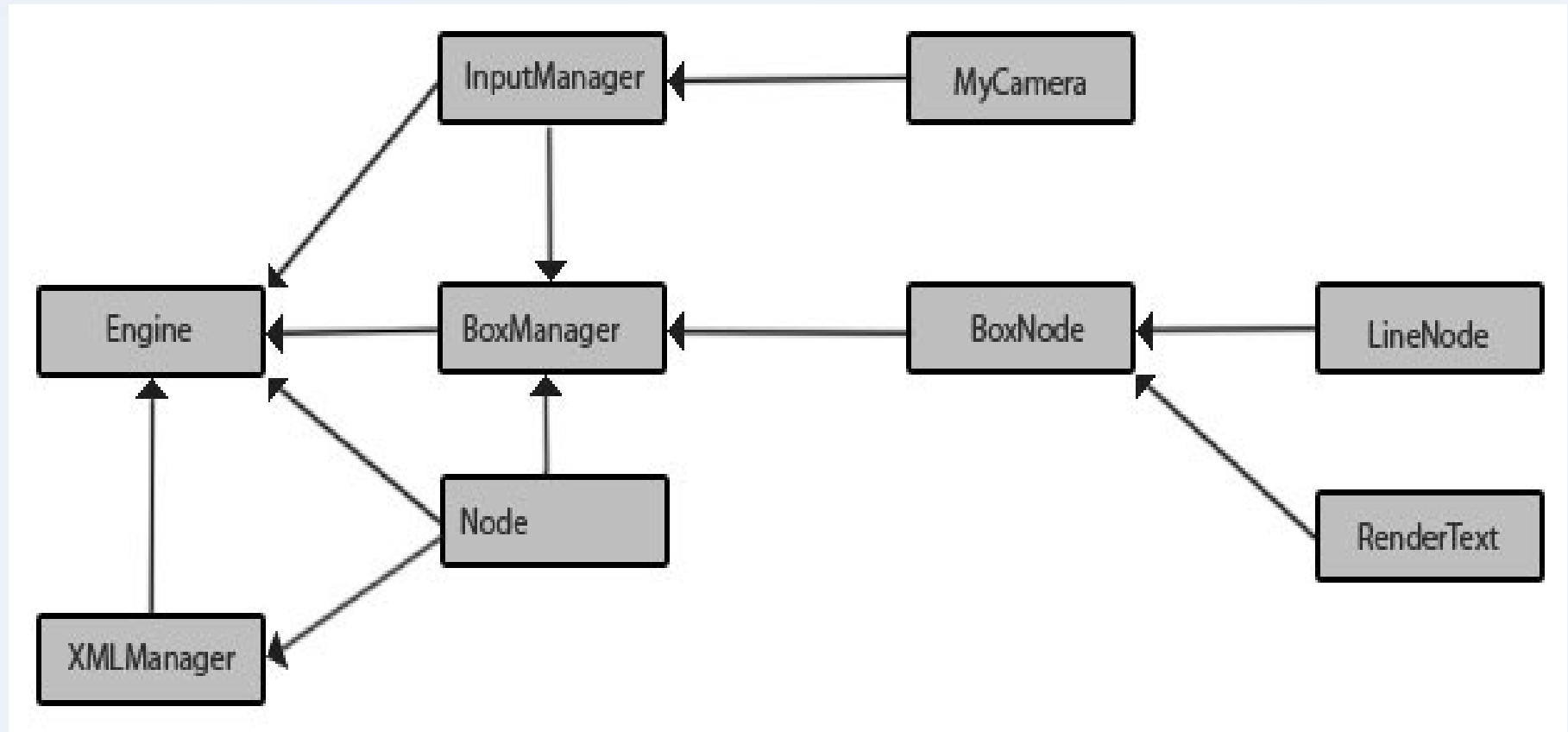# Several infomation visualizations

Representation of text

- TTF
- Handles
- Adjustments

Structure of the application

XML Module

- Implemented by class XMLManager

- Input/Output file manager

- DOC-file generator

Example of XML-file

```xml
<graph id="0694e229-2f88-447f-a711-450ed0612302">
    <information>
        <inode id="2213e067-1082-400a-b08e-de833cf535a7" type="standard">
            <shortDescription>Main description of the node is here</shortDescription>
            <longDescription>Details of the node are here</longDescription>
            <strength value="10">
        </inode>
        <inode id="ea411072-5e61-48ac-8ab2-64a5be2437c4" type="standard">...</inode>
    </information>
    <links>
        <lnode id="ea411072-5e61-48ac-8ab2-64a5be2437c4">
            <fromInode id="2213e067-1082-400a-b08e-de833cf535a7"/>
            <toInode id="ea411072-5e61-48ac-8ab2-64a5be2437c4"/>
            <Applicability value="45"/>
        </lnode>
    </links>
    <presentation type="3D">
        <xpos value="234"/><ypos value="567"/><zpos value="890"/>
    </presentation>
</graph>
```

ELEMENTS
ATTRIBUTES
VALUES
TEXT

Example of DOC-file

```
<w:wordDocument xmlns:w="http://schemas.microsoft.com/office/word/2003/wordml">
    <w:body>
        <w:r><w:rPr><w:b w:val="on"/></w:rPr>
            <w:t>Short description</w:t>
        <w:rPr><w:b w:val="off"/></w:rPr></w:r><w:br/>
        <w:r><w:t>Long description</w:t></w:r><w:br/>
        <w:r><w:t>Strength: 10</w:t><w:r><w:br/>
        <w:r><w:t>Connections:</w:t><w:r><w:br/>
        <w:tab/><w:r><w:rPr><w:i w:val="on"/></w:rPr>
            <w:t>Short description of other node</w:t>
        <w:rPr><w:i w:val="off"/></w:rPr></w:r><w:br/>
        <w:tab/><w:r><w:rPr><w:i w:val="on"/></w:rPr>
            <w:t>Short description of other node</w:t></w:r>
        <w:rPr><w:i w:val="off"/></w:rPr></w:r>
        </w:r>
    </w:body>
</w:wordDocument>
```

Short description
Long description
Strength: 10
Connections:
Short description of other node
Short description of other node

GUI Module

- Boxes

- Lines

- Text

- Input

LIVE DEMOSTRATION

?