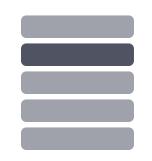
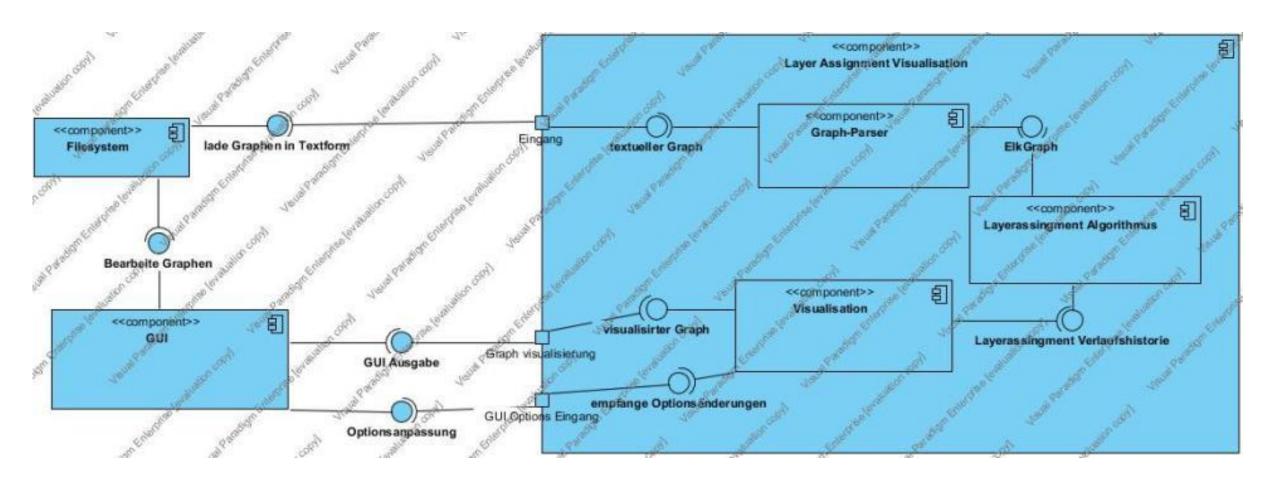


Thomas Dost, Jonas Lange, Francesca Rybicki

### Layer Assignment

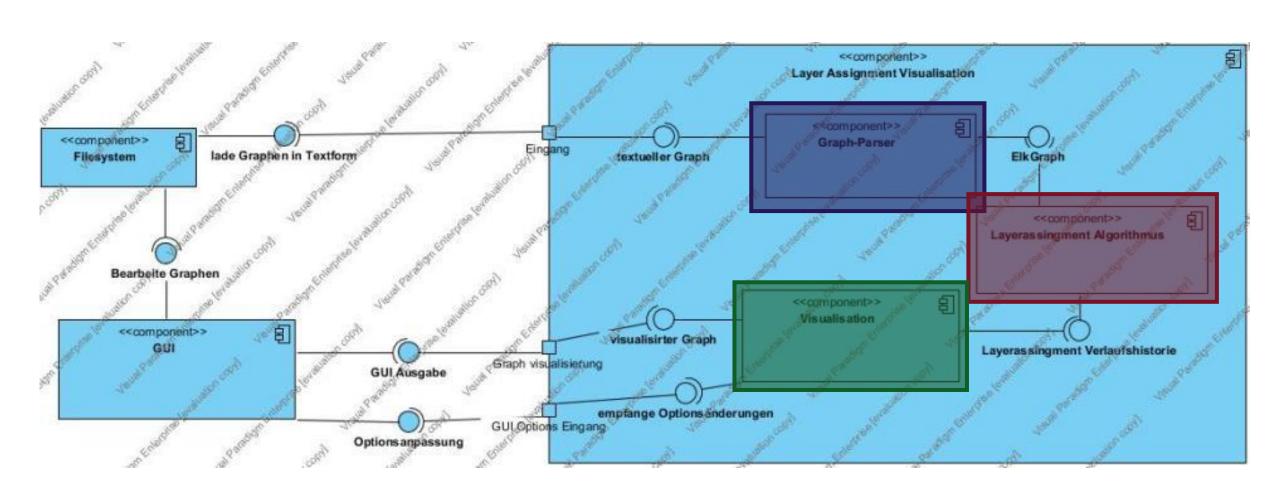
Component Diagram





### Layer Assignment

Component Diagram





## Layer Assignment Visualized

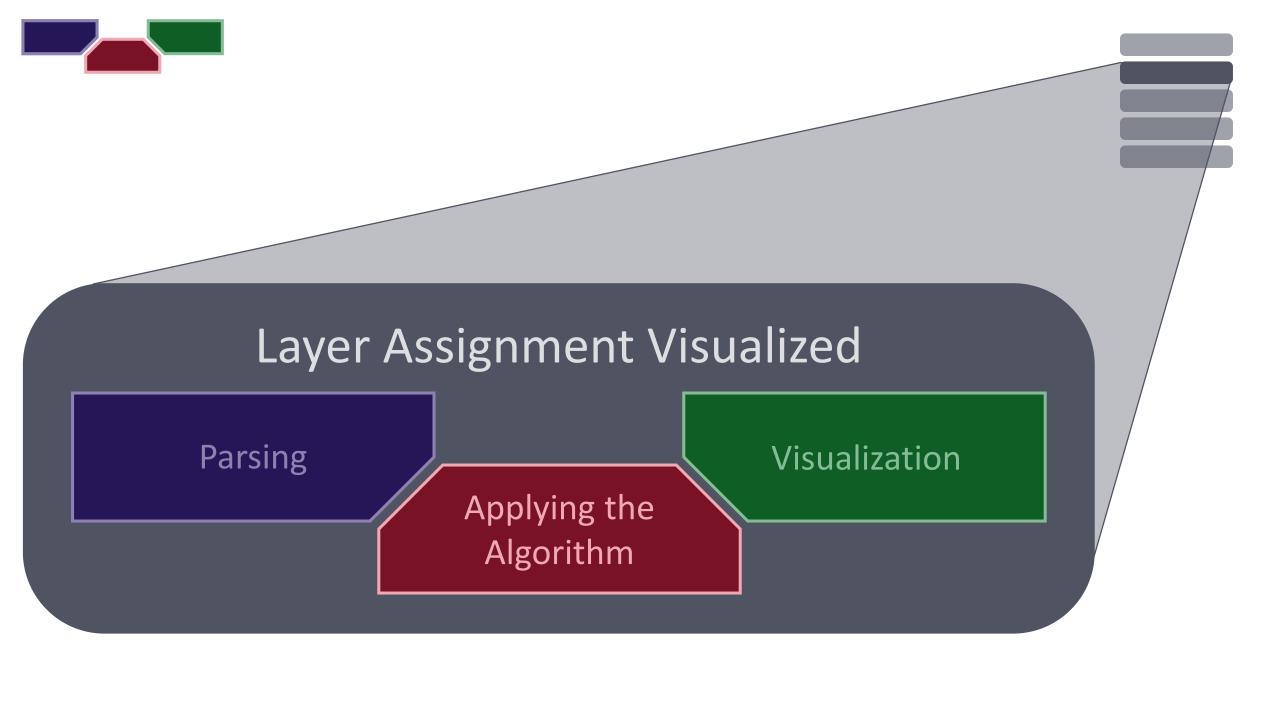
## Layer Assignment Visualized

Parsing



Parsing

Applying the Algorithm







### Parsing

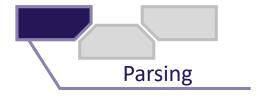
- Textformat for Graphs
- Translate Textformat to ElkGraph
- Error Handling
- Cycle breaking

```
1 node n1
```

- 2 node n2
- 3 node n3
- 4 node n4
- 5 edge n1 n3
- 6 edge n2 n3
- 7 edge n3 n4
- 8 edge n2 n4



ElkGraph



### Parsing

- **✓** Textformat for Graphs
- ✓ Translate Textformat to ElkGraph
- Error Handling
- Cycle breaking

```
1 node n1
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- 2 node n2
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ElkGraph





Cycle-free ElkGraph

# Applying the Algorithm

- Implementing the Layer Assignment Algorithm
- Translate ElkGraph to MyGraph
- Output: Array of MyGraph
- Testing

Array of MyGraph



Cycle-free ElkGraph

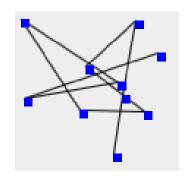
# Applying the Algorithm

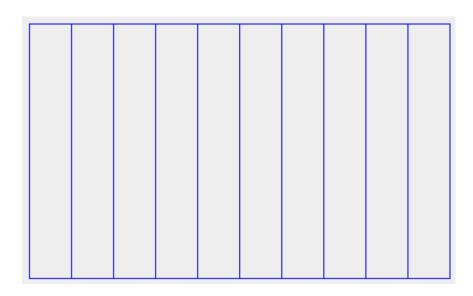
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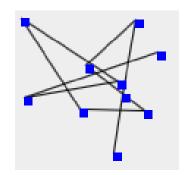


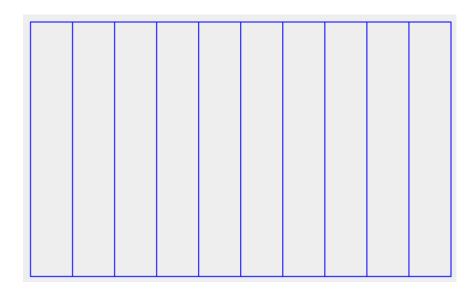


### Visualization

- Toolbox (not fancy)
- Toolbox (fancy)
- MiniGraph and Layer
- Animating Assignment
- Toggle Textual View
- Multiple Tabs









### Visualization

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- Toolbox (fancy)
- ✓ MiniGraph and Layer
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### To Dos:

### Parsing

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## Applying the Algorithm

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