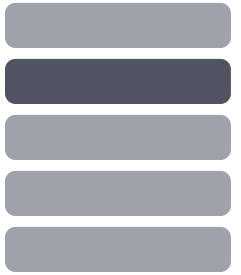
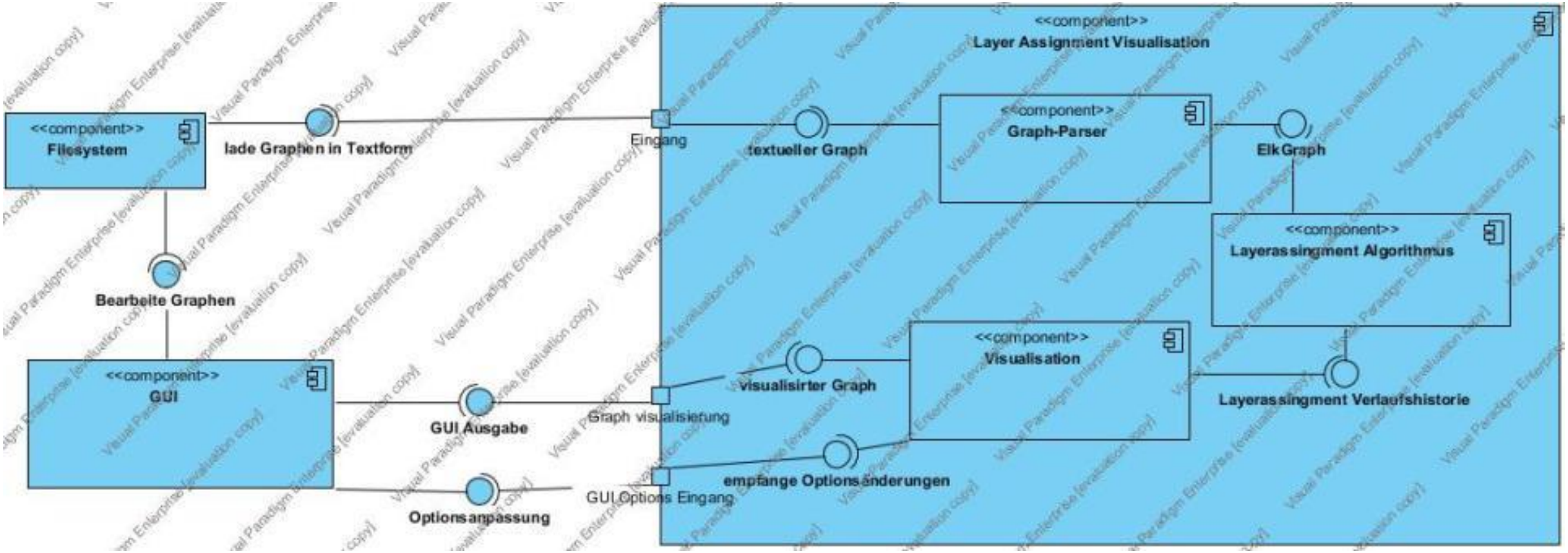


# Layer Assignment

Thomas Dost, Jonas Lange, Francesca Rybicki

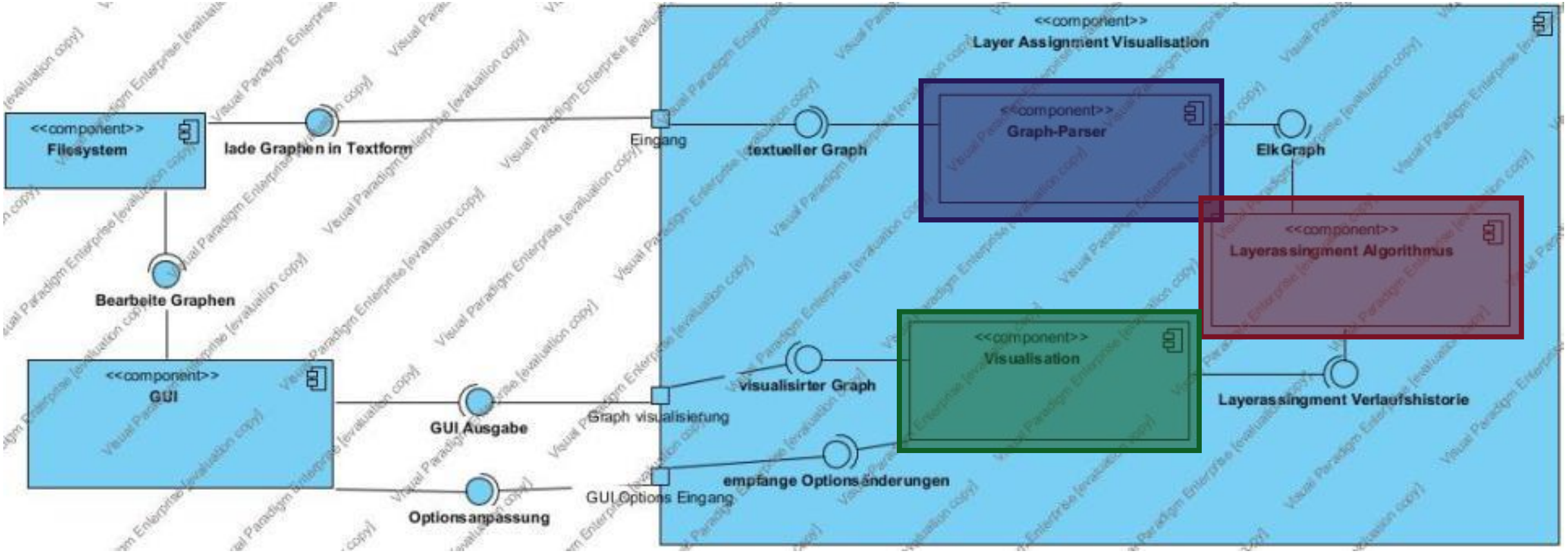
# Layer Assignment

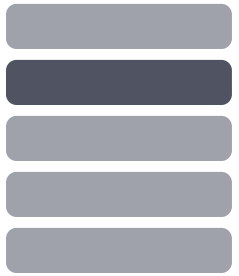
## Component Diagram



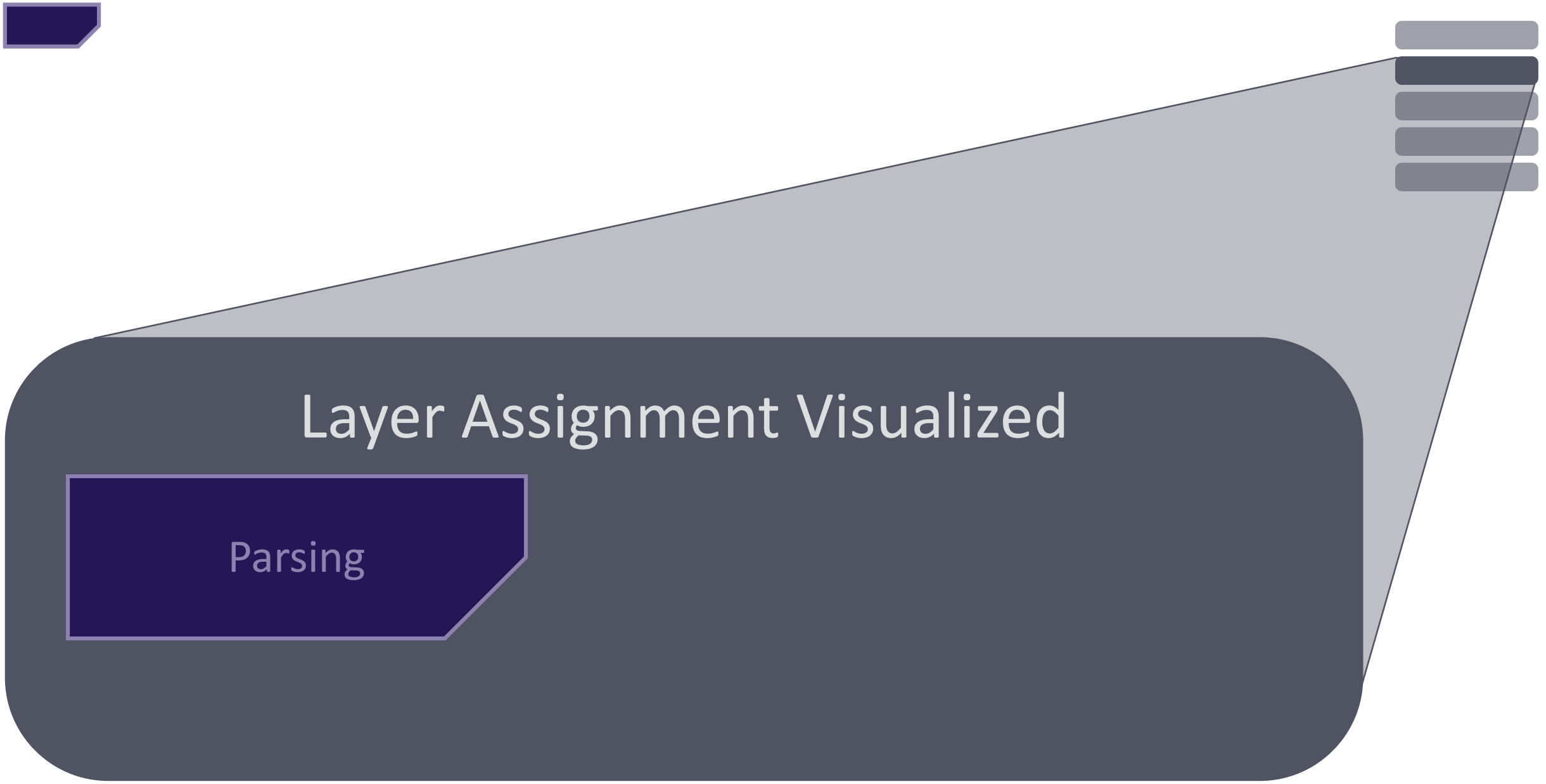
# Layer Assignment

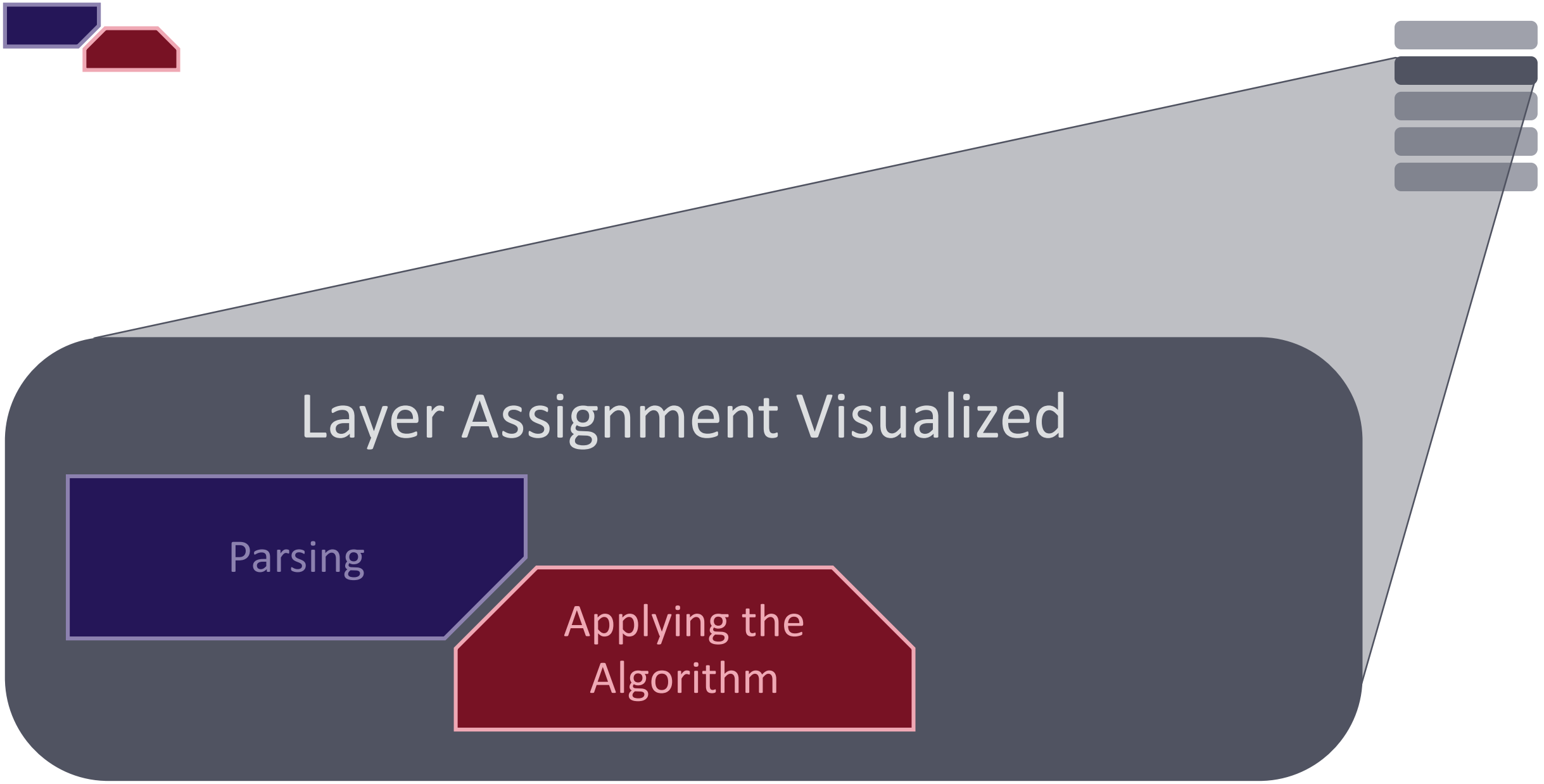
## Component Diagram

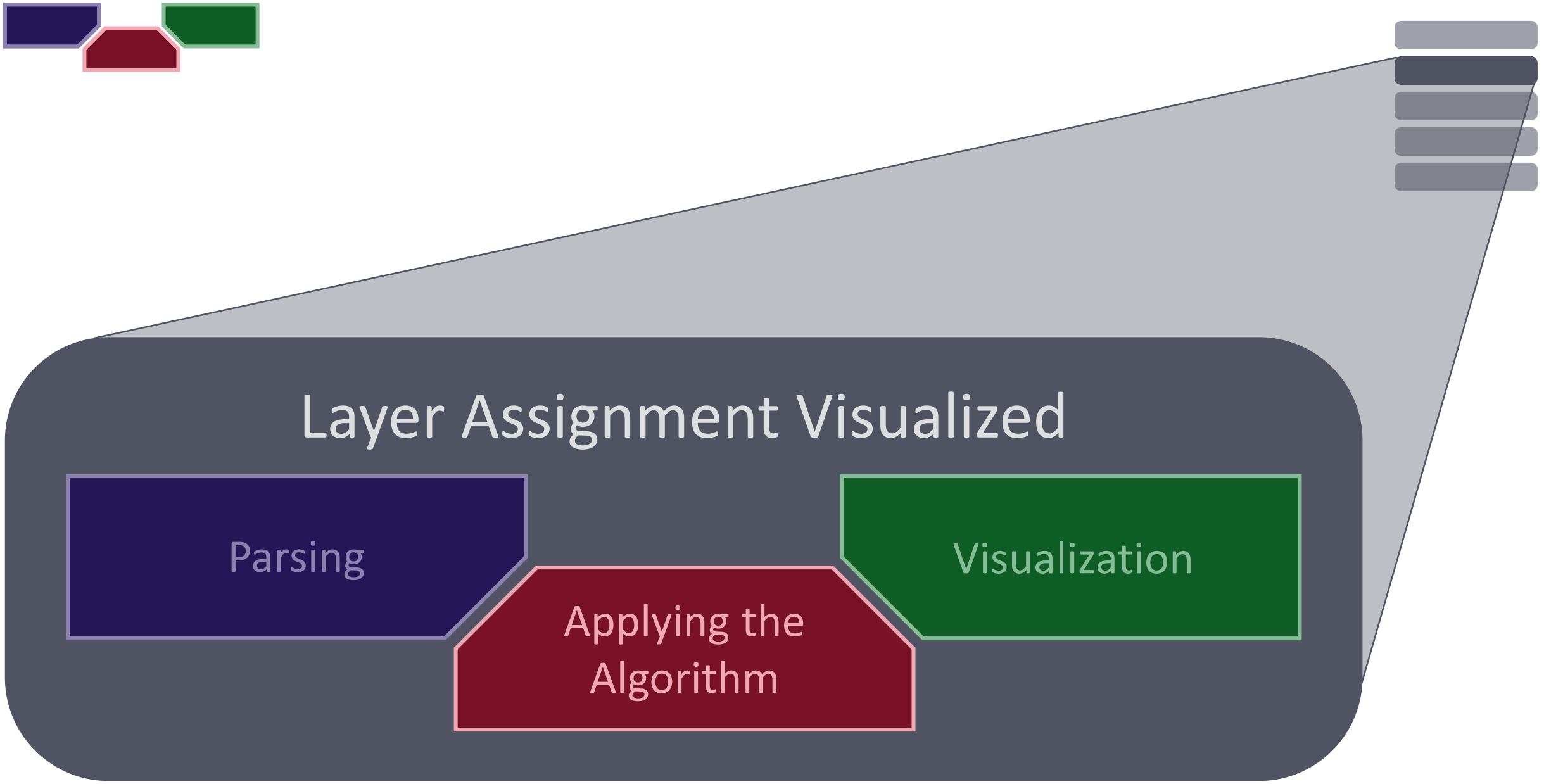




# Layer Assignment Visualized


Layer Assignment Visualized
Parsing

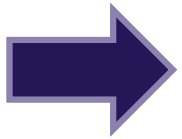

Layer Assignment Visualized
Parsing
Applying the Algorithm


Layer Assignment Visualized
Parsing
Applying the Algorithm
Visualization

## Parsing

- **Textformat für Graphen**
- **Textformat in ElkGraph übersetzen**
- **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 für Graphen**
- ✓ **Textformat in ElkGraph übersetzen**
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```
1  node n1
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6  edge n2 n3
7  edge n3 n4
8  edge n2 n4
```

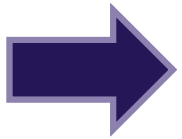

ElkGraph

Zykelfreier ElkGraph

## Applying the Algorithm

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

Array of MyGraph

Zykelfreier ElkGraph

## Applying the Algorithm

- ✓ **Implementing the Layer Assignment Algorithm**
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Array of MyGraph

## Visualization

- **Textformat für Graphen**
- **Textformat in ElkGraph übersetzen**
- **Error Handling**
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# To Dos:

## Parsing

- ✓ **Textformat für Graphen**
- ✓ **Textformat in ElkGraph übersetzen**
- **Error Handling**
- **Cycle breaking**

## Applying the Algorithm

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

## Visualization

- **Textformat für Graphen**
- **Textformat in ElkGraph übersetzen**
- **Error Handling**
- **Cycle breaking**