

Graphviz subgraph doesn't get visualized

Asked 13 years, 2 months ago Modified 12 years, 5 months ago

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I'm trying to create a graph with two subgraphs in dot. The code is as follows:

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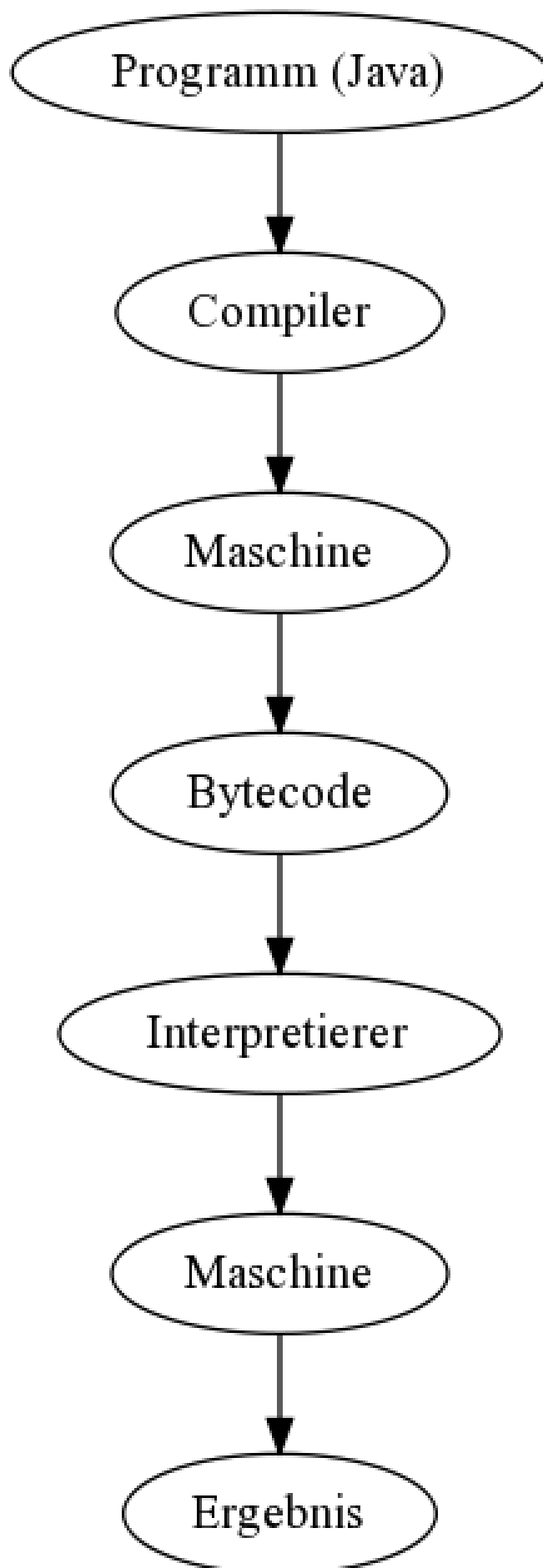


```
digraph G {
    subgraph step1 {
        style=filled;
        node [label="Compiler"]
    step1_Compiler;
        node [label="Maschine"]
    step1_Maschine;
        color=lightgrey;
    }

    subgraph step2 {
        style=filled;
        color=lightgrey;
        node [label="Interpreter"]
    step2_Interpreter;
        node [label="Maschine"]
    step2_Maschine;
        label="Virtuelle Maschine";
    }

    "Programm (Java)" -> step1_Compiler;
    step1_Compiler -> step1_Maschine;
    step1_Maschine -> "Bytecode";
    "Bytecode" -> step2_Interpreter;
    step2_Interpreter -> step2_Maschine;
    step2_Maschine -> "Ergebnis";
}
```

The result I am getting looks like the following:



I expected to see a box around both subgraphs. What am I missing here?

graphviz

dot

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asked Sep 28, 2011 at 16:23



halfdan

34.2k ● 8 ● 81 ● 87

1 Answer

Sorted by:

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You'll have to prefix the name of your subgraphs with *cluster*:

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```
subgraph clusterstep1 {
```

and



```
subgraph clusterstep2 {
```



in order to get the style and label.

From the [graphviz documentation, section "Subgraphs and Clusters"](#):

The third role for subgraphs directly involves how the graph will be laid out by certain layout engines. **If the name of the subgraph begins**

with **cluster**, Graphviz notes the subgraph as a **special cluster subgraph**. If supported, the layout engine will do the layout so that the nodes belonging to the cluster are drawn together, with the entire drawing of the cluster contained within a bounding rectangle. Note that, for good and bad, cluster subgraphs are not part of the DOT language, but solely a syntactic convention adhered to by certain of the layout engines.

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answered Sep 28, 2011 at 17:01

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[marapet](#)

56.4k ● 13 ● 175 ● 186

So will subgraph and subgraph cluster* both result in a visual grouping under the layout algorithms? – [Chris](#) Nov 24, 2013 at 11:29

21 Prefixing the name with `cluster` is such a stupid design choice... Why isn't keyword `subgraph` enough??? – [71GA](#) Apr 11, 2021 at 18:12

@71GA: You are absolutely right, but why ask this here? File a bug against graphviz. – [einpoklum](#) Feb 3, 2022 at 13:17

4 @71GA: Filed it myself...
gitlab.com/graphviz/graphviz/-/issues/2187 – [einpoklum](#) Feb 3, 2022 at 13:40

2 Thank you for this! I had a file with two subgraphs, one of which *happened to be called* `cluster` and I couldn't figure out why only one of them was visible ... – [Joachim Sauer](#) Mar 2, 2022 at 16:47
