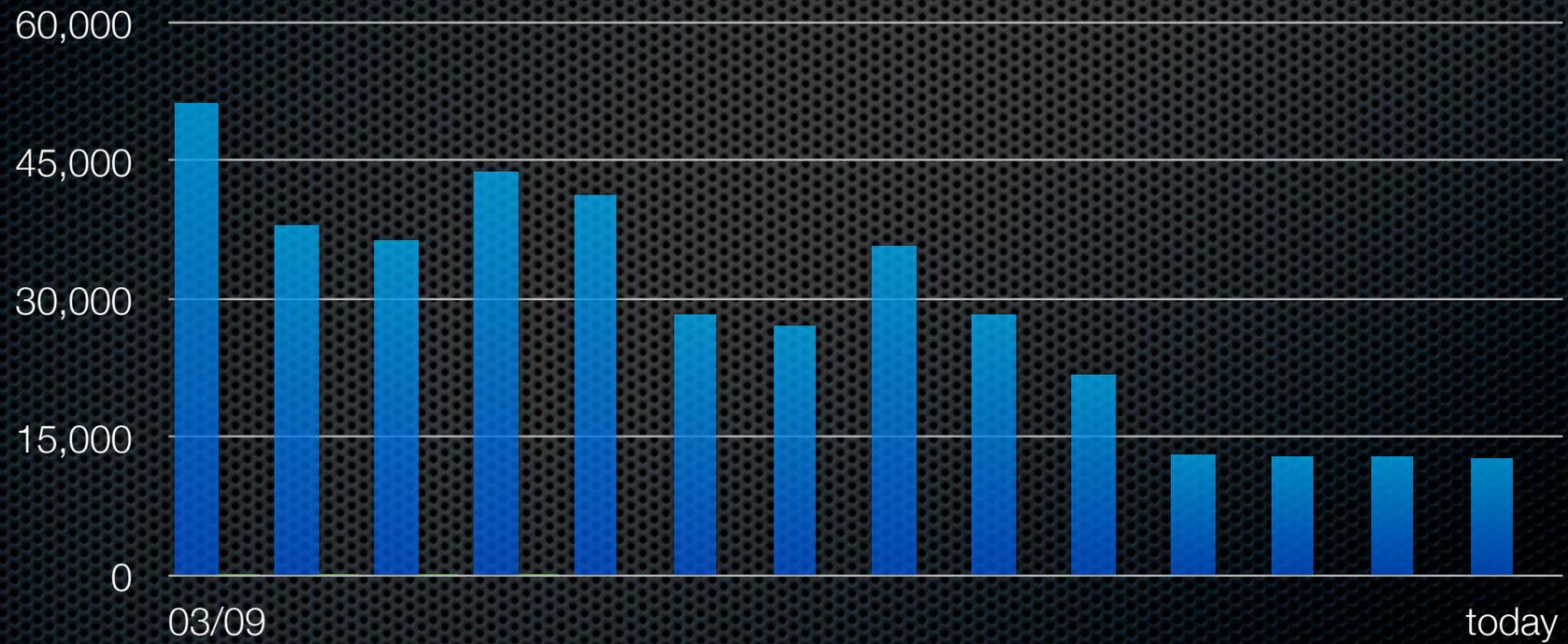


Turning Moose into PhaMoose

Alexandre Bergel

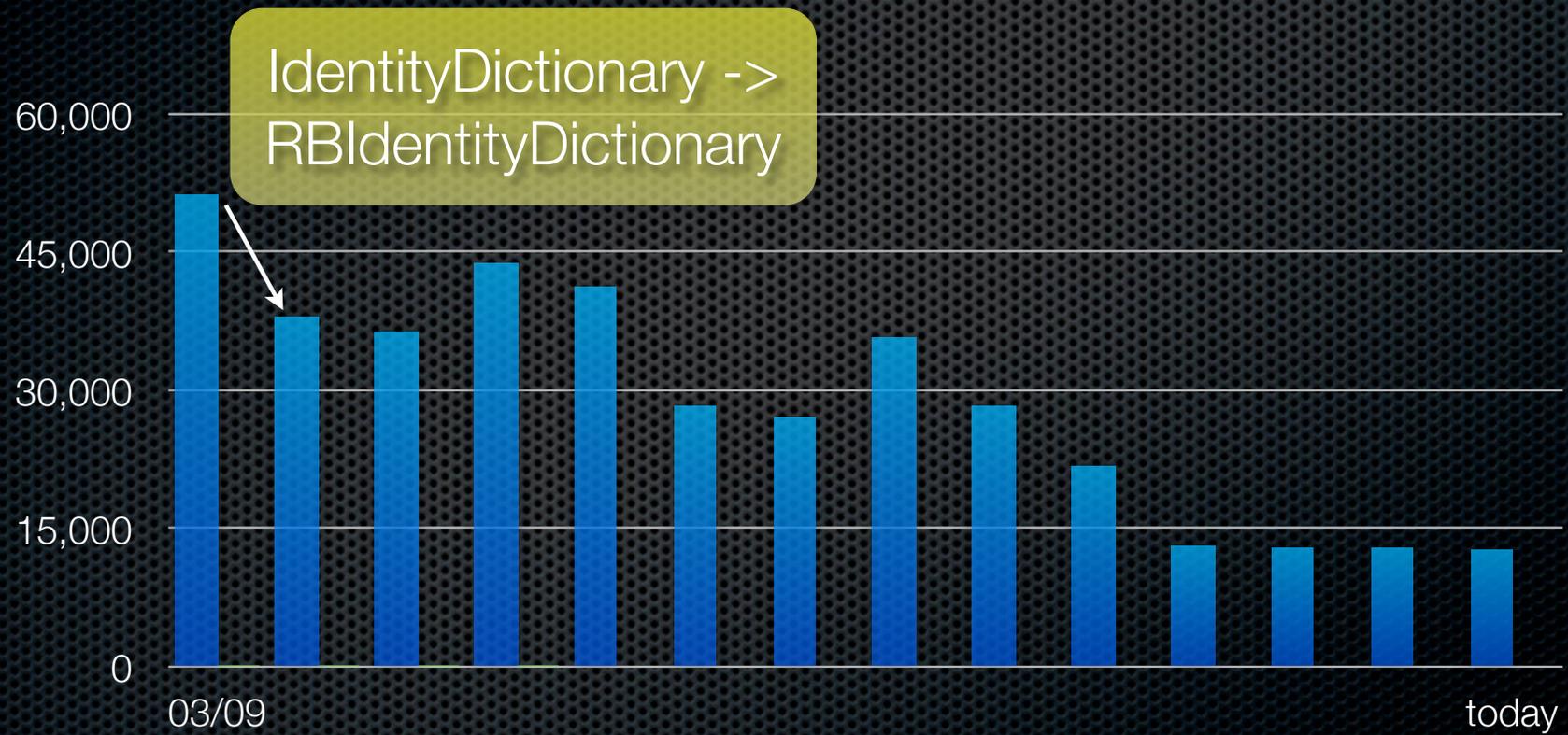
Mondrian

Speed



30 nodes, 870 edges

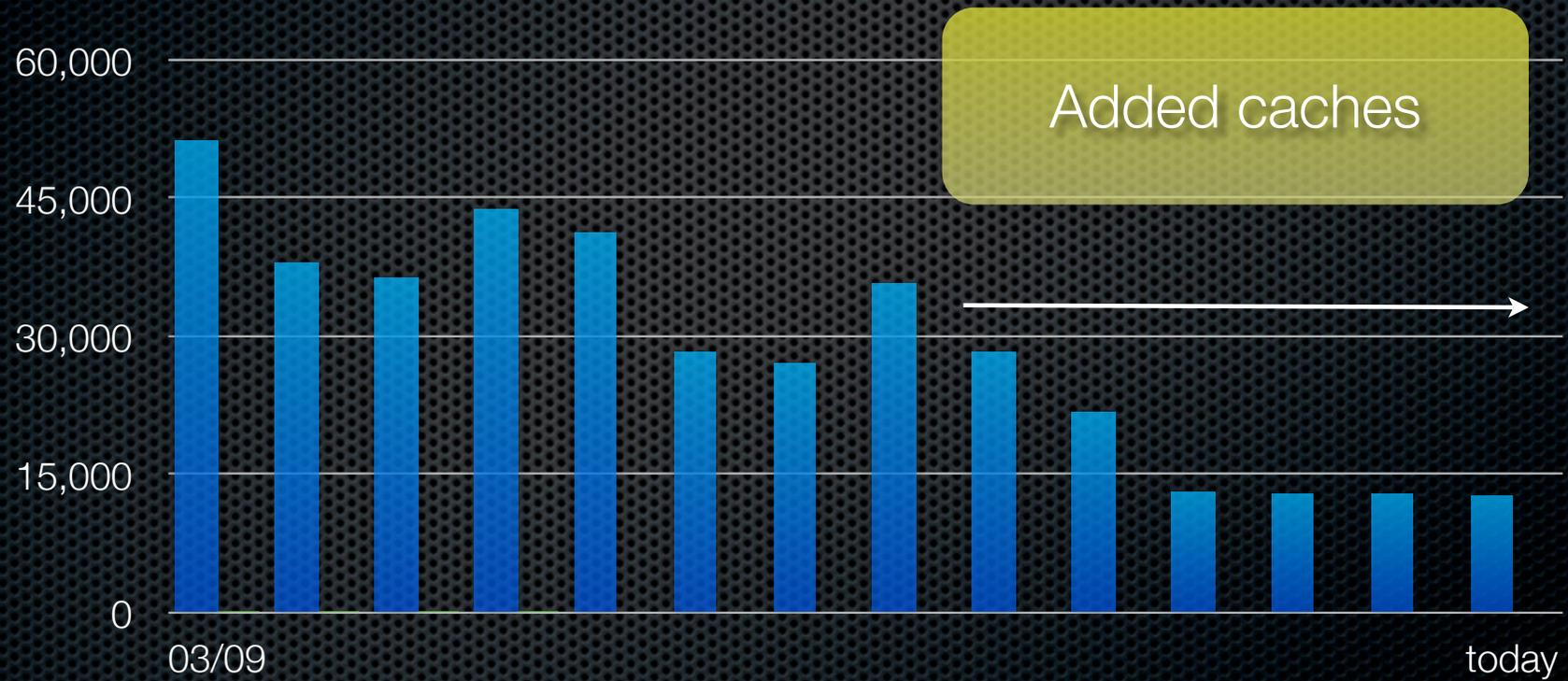
Speed



Speed



Speed



View nesting

```
| view |
```

```
  view := MOViewRenderer new.
```

```
  view nodes: (1 to: 100) forEach: [:each |
```

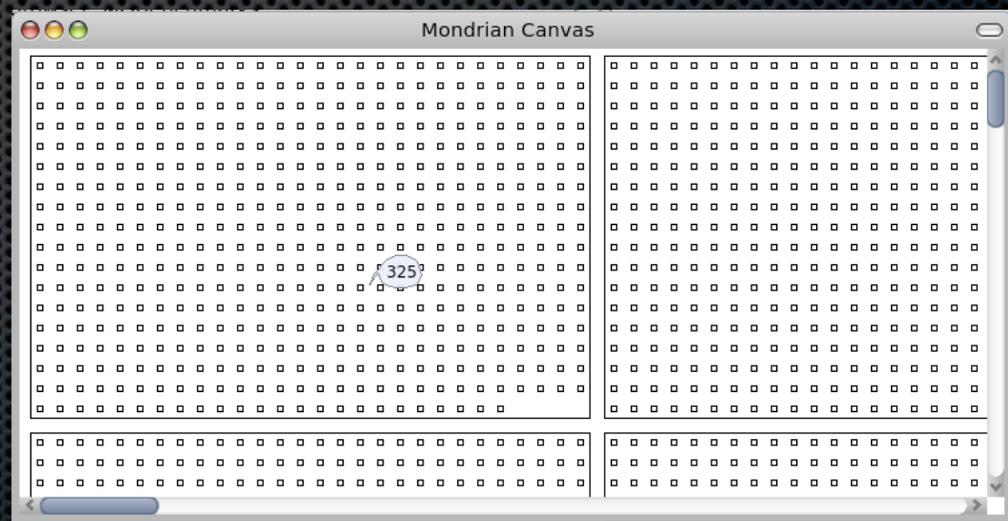
```
    view nodes: (1 to: 500).
```

```
    view GridLayout
```

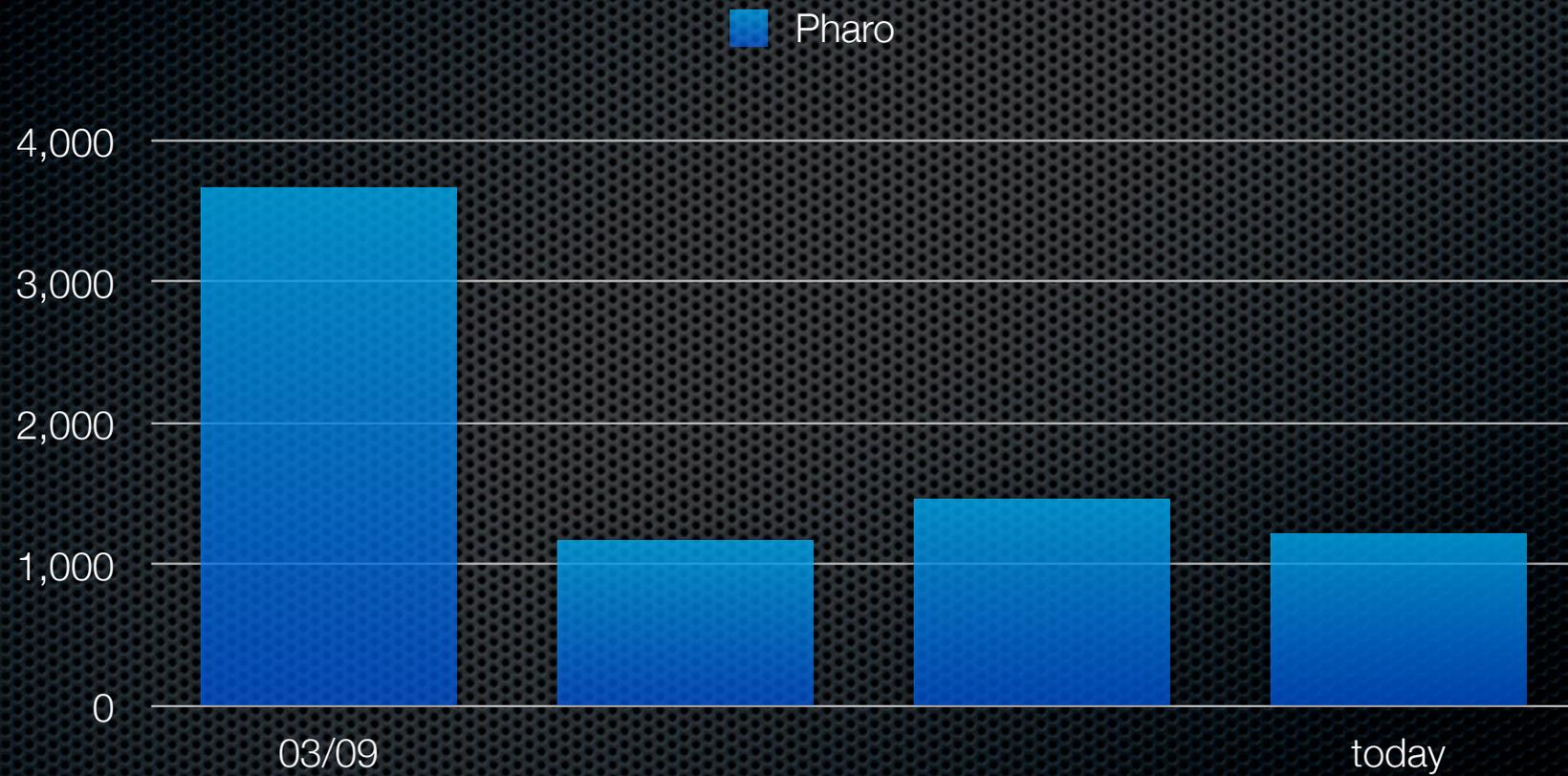
```
  ].
```

```
  view GridLayout.
```

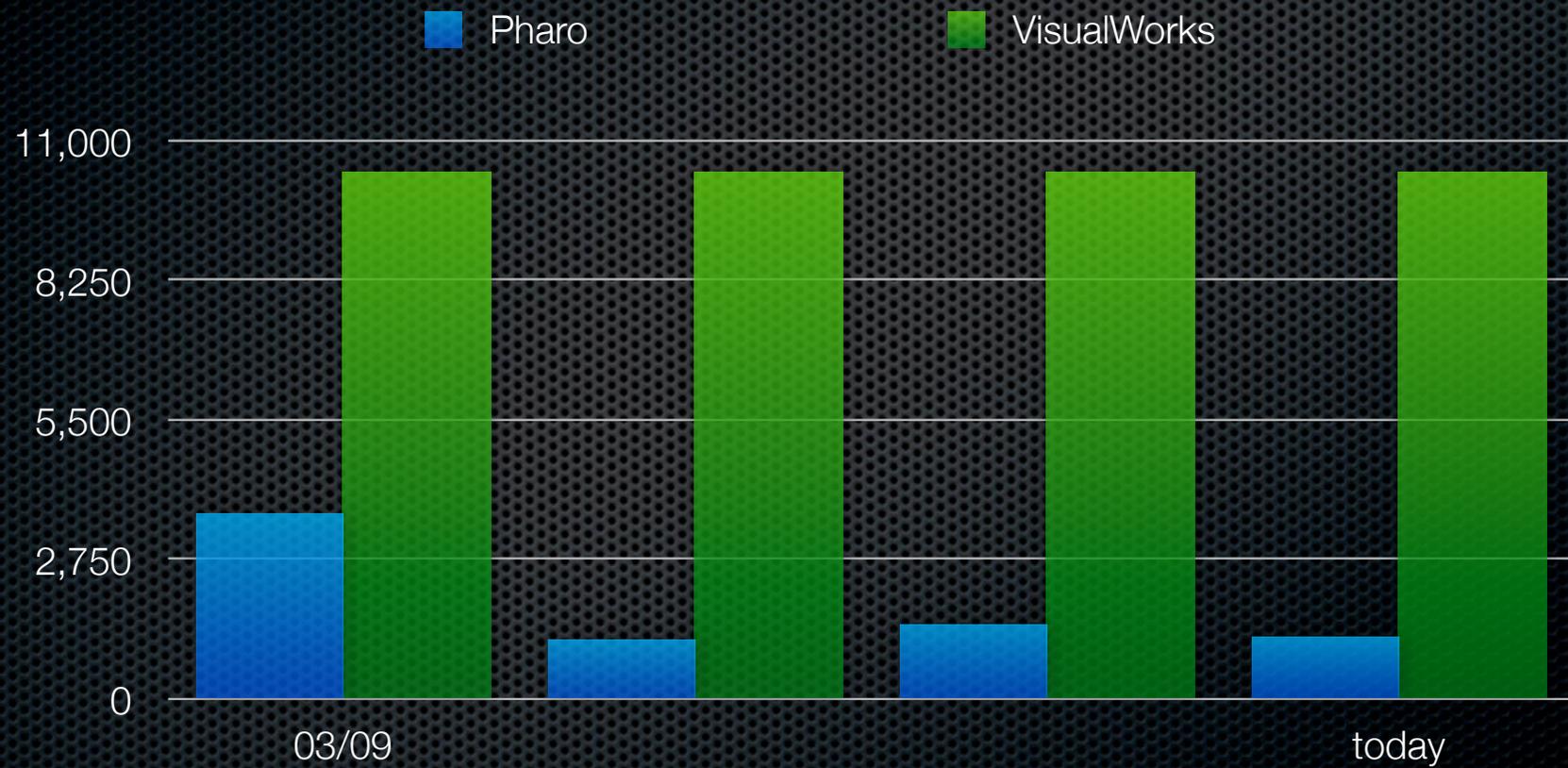
```
  view open.
```



View nesting



View nesting



Importing C using srcML

- srcML is a robust, fast, easy to use tool to parse/analyze C/C++/Java source code
- Each source file produces an XML file
- comments, method body, statements appear in the XML tree
- Bijection between the source and the XML
- led by Jonathan Maletic, Michael L. Collard

```
/* Hello World program */
```

```
#include<stdio.h>
```

```
main()
```

```
{
```

```
    printf("Hello World");
```

```
}
```



```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?  
>
```

```
<unit xmlns="http://www.sdml.info/srcML/src"  
xmlns:cpp="http://www.sdml.info/srcML/cpp"  
language="C++" dir="" filename="helloworld.c"><comment  
type="block">/* Hello World program */</comment>
```

```
<cpp:include>#<cpp:directive>include</  
cpp:directive><cpp:file>&lt;stdio.h&gt;</cpp:file></  
cpp:include>
```

```
<function><name>main</name><parameter_list>()</  
parameter_list>  
<block>{
```

```
    <expr_stmt><expr><call><name>printf</  
name><argument_list>( <argument><expr>"Hello World"</  
expr></argument> )</argument_list></call></expr>;</  
expr_stmt>
```

```
</block></function></unit>
```

Based on famix 3

- ✦ FAMIXInvocation <--> function call
 - ✦ probably not a good choice (because of candidates)
- ✦ CAModule
- ✦ CAFunction subclass of FAMIXFunction

C function

numberOfAttributes

complexity
red = complex

LOC

C module

