
Subject: diagramming tool

Posted by [pber](#) on Wed, 09 Mar 2011 13:53:41 GMT

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I'm trying to build a diagramming tool.
Do not expect to find anything of usable at now,
it's still at an early-early stage, it has (many) bugs
and does not save nor load anything. In other words it's
pretty useless... but I hope you may guess something in it.

best regards
Paolo Bernardi

File Attachments

1) [canvas.zip](#), downloaded 581 times

Subject: Re: diagramming tool

Posted by [koldo](#) on Wed, 09 Mar 2011 15:40:47 GMT

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Hello pber

I have had some problems compiling it:

- Some files are not included, as gm.lay or images.img
- In connector.cc, line 236, there is this:

```
if (selected and !activePoint)
```

Subject: Re: diagramming tool

Posted by [pber](#) on Wed, 09 Mar 2011 22:41:16 GMT

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Thanks Koldo:
you're right I missed some piece for the hurry to post
(but if not in hurry I didn't find the courage to post...)

I hope this zip is the complete one.

best regards
Paolo Bernardi

File Attachments

1) [canvas.zip](#), downloaded 564 times

Subject: Re: diagramming tool
Posted by [tojocky](#) on Thu, 17 Mar 2011 08:41:21 GMT
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pber wrote on Thu, 10 March 2011 00:41 Thanks Koldo:
you're right I missed some piece for the hurry to post
(but if not in hurry I didn't find the courage to post...)

I hope this zip is the complete one.

best regards
Paolo Bernardi

Very nice! It like case diagram. But with many bugs.

Subject: Re: diagramming tool
Posted by [koldo](#) on Thu, 17 Mar 2011 10:11:44 GMT
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I agree with tojocky.

In XP it runs compiled with MinGW. As TheIDE configuration for MSC is more restrictive that the one for MinGW, it is not possible to compile it with MSC.

Here I enclose you the warnings and errors. They are very useful:

```
ClassDiagram.cc
c:\desarrollo\aplicaciones\canvas\classdiagram.cc(135) : warning C4715: 'gm::ClassDiagram::edit'
: not all control paths return a value
$blitz.cpp
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(10) : warning C4244: 'argument' : conversion from
'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(10) : warning C4244: 'argument' : conversion from
'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(11) : warning C4244: 'argument' : conversion from
'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(18) : warning C4244: 'argument' : conversion from
'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(18) : warning C4244: 'argument' : conversion from
'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(19) : warning C4244: 'argument' : conversion from
```

'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(23) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(23) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(24) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(30) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(30) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ruler.cc(31) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Halos.cc(22) : warning C4018: '<' : signed/unsigned mismatch
C:\Desarrollo\Aplicaciones\canvas\Image.cc(10) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Image.cc(10) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Image.cc(16) : warning C4244: 'argument' : conversion from 'const double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Image.cc(16) : warning C4244: 'argument' : conversion from 'const double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(13) : warning C4244: 'argument' : conversion from 'float' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(13) : warning C4244: 'argument' : conversion from 'float' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(13) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(13) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(18) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(18) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(18) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(18) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(24) : warning C4244: 'argument' : conversion from 'float' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(24) : warning C4244: 'argument' : conversion from 'float' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(24) : warning C4244: 'argument' : conversion from 'float' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(24) : warning C4244: 'argument' : conversion from 'float' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\UppCanvas.cc(35) : warning C4244: 'initializing' : conversion from 'double' to 'float', possible loss of data

C:\Desarrollo\Aplicaciones\canvas\Ellipse.cc(16) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ellipse.cc(16) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ellipse.cc(16) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Ellipse.cc(16) : warning C4244: 'argument' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\shape.cc(21) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Separator.cc(10) : warning C4244: '=' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Separator.cc(11) : warning C4244: '=' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Separator.cc(12) : warning C4244: '=' : conversion from 'const double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\selection.cc(28) : warning C4018: '>=' : signed/unsigned mismatch
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(26) : warning C4244: '=' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(27) : warning C4244: '=' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(28) : warning C4244: '=' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(29) : warning C4244: '=' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(30) : warning C4244: '=' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(31) : warning C4244: '=' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(32) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(33) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(33) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(33) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data

C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(66) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(66) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(66) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(66) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(66) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(67) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(67) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(67) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(67) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(67) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(67) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Arrow.cc(20) : warning C4101: 'size' : unreferenced local variable
C:\Desarrollo\Aplicaciones\canvas\HighLight.cc(48) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\HighLight.cc(48) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\HighLight.cc(83) : warning C4244: 'argument' : conversion from 'int' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\MTPick.cc(44) : warning C4390: ';' : empty controlled statement found; is this the intent?
c:\desarrollo\aplicaciones\canvas\separator.cc(23) : warning C4715: 'cv::Separator::get_extent' : not all control paths return a value
c:\desarrollo\aplicaciones\canvas\mtconnect.cc(208) : warning C4715: 'cv::MTConnect::notify' : not all control paths return a value
c:\desarrollo\aplicaciones\canvas\mtdrag.cc(92) : warning C4715: 'cv::MTDrag::notify' : not all control paths return a value
c:\desarrollo\aplicaciones\canvas\mtpickrelative.cc(59) : warning C4715: 'cv::MTPickRelative::notify' : not all control paths return a value
c:\desarrollo\aplicaciones\canvas\mtpick.cc(83) : error C4716: 'cv::MTPick::pickNull' : must return a value
ConnectorEnd.cc
C:\Desarrollo\Aplicaciones\canvas\ConnectorEnd.cc(58) : warning C4244: '=' : conversion from 'double' to 'float', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\ConnectorEnd.cc(200) : warning C4244: '=' : conversion from 'double' to 'float', possible loss of data
connector.cc

C:\Desarrollo\Aplicaciones\canvas\connector.cc(236) : error C2146: syntax error : missing ')' before identifier 'and'
C:\Desarrollo\Aplicaciones\canvas\connector.cc(236) : error C2065: 'and' : undeclared identifier
C:\Desarrollo\Aplicaciones\canvas\connector.cc(236) : error C2143: syntax error : missing ';' before '!'
C:\Desarrollo\Aplicaciones\canvas\connector.cc(236) : error C2059: syntax error : ')'
C:\Desarrollo\Aplicaciones\canvas\connector.cc(237) : error C2146: syntax error : missing ';' before identifier 'root'
C:\Desarrollo\Aplicaciones\canvas\connector.cc(237) : warning C4552: '!' : operator has no effect; expected operator with side-effect
Handler.cc
Diagram.cc
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(122) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(122) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(123) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(123) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(124) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(124) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(125) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(125) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(135) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(135) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(140) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(140) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(148) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(148) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(153) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
C:\Desarrollo\Aplicaciones\canvas\Diagram.cc(153) : warning C4244: 'argument' : conversion from 'double' to 'int', possible loss of data
Label.cc
c:\desarrollo\aplicaciones\canvas\canvas.cc(217) : error C4716: 'cv::Canvas::isDragging' : must return a value
canvas.cc

canvas: 56 file(s) built in (0:10.61), 189 msec / file, duration = 11953 msec, parallelization 100%

Subject: Re: diagramming tool
Posted by [tojocky](#) on Thu, 17 Mar 2011 13:28:38 GMT
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If we really want to improve this package, than let include in bazaar and improve it.

Subject: Re: diagramming tool
Posted by [tojocky](#) on Thu, 17 Mar 2011 13:52:31 GMT
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I made this package compiled without error with MSC and GCC (Ubuntu).
As idea, this package is interesting.

File Attachments

1) [canvas_2011_03_17.zip](#), downloaded 572 times

Subject: Re: diagramming tool
Posted by [pber](#) on Sat, 19 Mar 2011 02:08:48 GMT
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Thanks, your interest make me happy.

I (finally) realized msvc works better than gcc. thanks tojocky.

sure: it's just an idea at now.

For now it's an experiment on using using Ultimate + RR.

Maybe this time I will avoid the famigerate collapse.

I'm optimist: the really ugly and bugged code you have seen is already
far from what I could produce unusing just an IDE (...even if _the_ IDE).

Still full of bugs, but reorganized into few files (TheIDE prefers this way...).
Now labels works well with polylines

Obviously: any suggestions will be welcome.
best regards

File Attachments

1) [canvas.zip](#), downloaded 547 times

Subject: Re: diagramming tool
Posted by [tojocky](#) on Sat, 19 Mar 2011 22:03:06 GMT
[View Forum Message](#) <> [Reply to Message](#)

pber wrote on Sat, 19 March 2011 04:08 Thanks, your interest make me happy.

I (finally) realized msvc works better than gcc. thanks tojocky.

sure: it's just an idea at now.

For now it's an experiment on using using Ultimate + RR.

Maybe this time I will avoid the famigerate collapse.

I'm optimist: the really ugly and bugged code you have seen is already far from what I could produce unsing just an IDE (...even if _the_ IDE).

Still full of bugs, but reorganized into few files (TheIDE prefers this way...).

Now labels works well with polylines

Obviously: any suggestions will be welcome.

best regards

Paolo,

Now is a little better, but you have memory leaks and some errors.

In include you need to use same case of name file.

e.g. if you have a header file

Header.h

in source file you need to write

```
#include "Header.h"
```

not

```
#include "header.h"
```

I have attached a corrected variant (only include) in a hurry.

File Attachments

1) [canvas_2011_03_19_correct.zip](#), downloaded 546 times

Subject: Re: diagramming tool
Posted by [pber](#) on Sun, 20 Mar 2011 20:13:49 GMT
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I bag your pardon Ion: I missed unix is case-sensitive.

This version has no memory-leacks.

Two buttons added: populate and stress.
populate - creates 50 nodes and 50 relations.
stress - run populate and immediatly remove all.

My toy is very slow:

1. it computes anything during the paint-phase
(I guess it's bad design)
2. at each paint all the world get re-computed and re-painted

Next steps are:

- some optimization (at least to work with 100/200 nodes)
- boost::graph as layout manager

Do I need some authorization to put it into bazaar?

best regards
Paolo Bernardi

File Attachments

1) [canvas.zip](#), downloaded 592 times

Subject: Re: diagramming tool

Posted by [mr_ped](#) on Mon, 21 Mar 2011 08:49:46 GMT

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Bazaar:

You need svn account, ask Mirek in private message, just write you want to add your package to bazaar.

Please add BSD license (or different one if you want, but things in bazaar are expected to be BSD "compatible") into your project in some expected place (a short mention in comment in every source file or some file COPYING or README would be good).

Files without license are automatically (by law) considered as protected work of author and their usage by others is not legal without your further consent.

Subject: Re: diagramming tool

Posted by [tojocky](#) on Mon, 21 Mar 2011 09:46:57 GMT

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Removed: mr_ped already answered.

Subject: Re: diagramming tool

Posted by [nneilson](#) on Mon, 21 Mar 2011 10:26:02 GMT

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mr_ped wrote on Mon, 21 March 2011 09:49Files without license are automatically (by law) considered as protected work of author and their usage by others is not legal without your further consent.

Interesting, was not aware of that.

With files that are intended to help other I don't include anything. Maybe I should include something like:

No License No Restrictions

GPL in my opinion is NFG and I try to stay away from it.

LGPL is a bit of a nuisance but OK.

Once I get something working I am fair at optimizing for speed, efficiency and accuracy and often don't mind sharing it.

For code that is meant to be proprietary I just use:

Copyright, all rights reserved

and then only the compiled version and no code is available.

Sometimes all the legalese BS makes my head hurt.

The diagram tool sounds interesting, I might try it.

Neil

Subject: Re: diagramming tool

Posted by [mr_ped](#) on Tue, 22 Mar 2011 08:28:16 GMT

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WTFPL is another good one.

(and it's compatible with any other license, either in original form, or in worst case under re-licensing it under target license)
