Subject: stl question

Posted by GaroRobe on Fri, 10 Jun 2011 03:37:21 GMT

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So.

I've got a method in OpenCV I need to use. It has parameters with type vector<vector<Point3d>>. It is a data about primitive regular mesh (in model coords) for each frame. Filling it manually feels wrong, so I do it like:

vector<Point2f> checkboardMesh:

```
for ( int i = 0; i < board_h; i++ )
  for ( int j = 0; j < board_w;i++ )
    checkboardMesh.push_back ( * new Point2f ( j, i ) );
And here I get stuck: will I not get memory leak here? AFAIK std::vector copies element on insert.
Should I do it like
for ( int i = 0; i < board_h; i++ )
for ( int j = 0; j < board_w; j++ )
{
    tmpP = new Point2f ( j, i );
    checkboardMesh.push_back ( *tmpP );
    delete tmpP;
}
maybe? If I do, then I'd rather look for a better idea.</pre>
```

Or maybe there is some way of using Upp containers here?

Subject: Re: stl question

Posted by dolik.rce on Fri, 10 Jun 2011 05:55:14 GMT

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Hi GaroRobe.

You don't have to use new at all Just creating a temporary object is fine, since std::vector will make a copy:

vector<Point2f> checkboardMesh;

```
for ( int i = 0; i < board_h; i++ )
  for ( int j = 0; j < board_w; j++ )
    checkboardMesh.push_back ( Point2f ( j, i ) );</pre>
```

Using U++ containers should be possible, but it would be an ugly hack Something allong the lines of: using std::vector;

using cv::Point2f;

Vector<Point2f> v; //this requires to do NAMESPACE_UPP; NTL_MOVEABLE(cv::Point2f); END_UPP_NAMESPACE; in global scope

vector<Point2f> checkboardMesh;

```
for ( int i = 0; i < board_h; i++ )
for ( int j = 0; j < board_w; j++ )
v.Add( Point2f ( j, i ) );
```

checkboardMesh.resize(v.GetCount());

memmove(&checkboardMesh[0],v.Begin(),v.GetCount()*sizeof(Point2f));In other words: not elegant and definitelly not recomended. Please never do something like that

Honza

Subject: Re: stl question

Posted by GaroRobe on Fri, 10 Jun 2011 06:21:57 GMT

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Wouldn't have guessed. Thanks a lot