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Initializing a two dimensional std::vector



And it feels very wrong... Is there another way of initializing a vector like this?

fogRow.push back(0):

fog.push_back(fogRow);

c++ vector

edited Jul 15 '13 at 20:28

asked Jul 15 '13 at 20:21 fritzone **16.7k** 9

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I would recommend a 1d vector implementation for a 2d vector if you don't require more space than std::vector<int>::max_size() . Here - andre Jul 15 '13 at 20:34

2 Answers

Use the std::vector::vector(count, value) constructor that accepts an initial size and a default value:

```
std::vector<std::vector<int>> fog(
A NUMBER
std::vector<int>(OTHER_NUMBER)); // Defaults to zero initial value
```

If a value other zero, say 4 for example, was required to be the default then:

```
std::vector<std::vector<int>> fog(
A NUMBER
std::vector<int>(OTHER_NUMBER, 4));
```

And just to mention uniform initialization introduced in c++11, which permits the initialization of vector, and other containers, using {}:

```
std::vector<std::vector<int>> fog { { 1, 1, 1 }, { 2, 2, 2 } };
```

edited Jul 15 '13 at 20:39

answered Jul 15 '13 at 20:24





There is no append method in std::vector, but if you want to make a vector containing A_NUMBER vectors of int, each of those containing other_number zeros, then you can do this:

 $\verb|std::vector<std::vector<int>> fog(A_NUMBER, std::vector<int>(OTHER_NUMBER));|\\$

answered Jul 15 '13 at 20:25



about append: just a typo :) thanks! - fritzone Jul 15 '13 at 20:28