

Home

PUBLIC

Questions

Tags

Users

COLLECTIVES

Explore Collectives

FIND A JOB

Jobs

Companies

TEAMS

Create free Team

How do I define a template function within a template class outside of the class definition?

Ask Question

Asked 11 years ago Active 11 years ago Viewed 7k times

Given:

45



11



```
template <class T>
class Foo
{
public:
    template <class U>
    void bar();
};
```

How do I implement bar outside of the class definition while still having access to both template parameters T and U?

c++ templates

Share Edit Follow Flag

asked Feb 24, 2011 at 17:39

May Oakes

4,053 5 42 51

Add a comment

Start a bounty

1 Answer

Active Oldest Votes

IIRC:

51



```
template<class T> template <class U>
void Foo<T>::bar() { ... }
```

Share Edit Follow Flag

answered Feb 24, 2011 at 17:42

Anycorn

48.3k 42 160 257

And I still don't understand why `template<class T, class U> void Foo<T>::bar(){...}` won't work... – Xeo Feb 24, 2011 at 17:51

5 @Xeo its two separate templates, class and function. (i think thats why) – Anycorn Feb 24, 2011 at 17:56

6 @Xeo because it's `Foo<T>::bar<U>` , not `Foo<T,U>::bar` – M.M Dec 18, 2015 at 12:35

Add a comment

Your Answer

Rich text editor with toolbar (Bold, Italic, Link, Image, etc.) and a text area for the answer.

Community wiki

Post Your Answer

Not the answer you're looking for? Browse other questions tagged c++ templates or ask your own question.

The Overflow Blog

- Debugging best practices for REST API consumers

Featured on Meta

- Update on the ongoing DDoS attacks and blocking Tor exit nodes
- What goes into site sponsorships on SE?
- Upcoming Feature Test: Ask Wizard for New Users

Linked

- 50 How to define a template member function of a template class
- 1 How to define a constructor template of a class template outside of the class template?
- 0 define function templated class outside of template
- 0 How to declare a friend operator with template then define it
- 0 How do I split template definition and instantiation into hpp and ipp files
- 9 Defining out-of-line member template functions
- 2 Issue with template method definition - error C2244: unable to match function definition to an existing declaration
- 0 c++ Error 'template<class T> class List' used without template parameters

Related

- 643 Storing C++ template function definitions in a .CPP file
- 3238 How do I iterate over the words of a string?
- 575 Templated check for the existence of a class member function?
- 702 How to call a parent class function from derived class function?
- 1273 Where and why do I have to put the "template" and "typename" keywords?
- 1801 Image Processing: Algorithm Improvement for 'Coca-Cola Can' Recognition
- 1553 Replacing a 32-bit loop counter with 64-bit introduces crazy performance deviations with _mm_popcnt_u64 on Intel CPUs
- 5 Define friend function outside class definition when the class and function have separate template parameters

Hot Network Questions

- Labeling axis in π increments
 - What does it mean for Russia to put its nuclear deterrence forces on 'high alert'?
 - Isn't sending weapons to Ukraine an escalation?
 - The use of "point out" seems awkward, can someone explain why it is grammatically correct?
 - Which American dialect pronounces "heard" as "hu-yd"?
- more hot questions

Question feed



STACK OVERFLOW

Questions
Jobs
Developer Jobs Directory
Help
Mobile

PRODUCTS

Teams
Talent
Advertising
Enterprise

COMPANY

About
Press
Work Here
Legal
Privacy Policy
Terms of Service
Contact Us
Cookie Settings
Cookie Policy

STACK EXCHANGE NETWORK

Technology
Culture & recreation
Life & arts
Science
Professional
Business
API
Data

Blog Facebook Twitter LinkedIn Instagram