

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

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

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asked Feb 24, 2011 at 17:39



May Oakes

4,063 ● 5 ● 42 ● 51

1 Answer

Sorted by: Highest Score (default) ▾



IIRC:

51



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

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 ✎

7



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