

R# suggests using implicitly typed vars



Luis Abreu 13 posts since

Feb 19, 2008

Hello.

Why does R# suggests using implicit typed vars all over the palce? Is there any good justification for this?

Thanks.



Evgeny Pasyukov 6,088 posts since

Dec 3, 2003 1. **Re: R# suggests using implicitly typed vars** Feb 20, 2008 7:08 PM

As for me, it improves code readability and reduce code duplication

--

Eugene Pasyukov

Developer

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

"Luis Abreu" <labreu@gmail.com> wrote in message

news:26279681.1203520748354.JavaMail.itn@is.intellij.net...

Hello.

R# suggests using implicitly typed vars

>

Why does R# suggests using implicit typed vars all over the palce? Is there any good justification for this?

>

Thanks.



Guest 2. **Re: R# suggests using implicitly typed vars** Feb 20, 2008 9:34 PM

Well, I don't think I agree with that. I do see that in some places it is better to use VAR (Linq queries) but in other cases I would say it is more readable to use exact types. For example see the attached code. This is in my eyes readable code. If I look at the use of my class I see the following:

```
IClass instance = MyFactory.Construct();  
Console.Write(instance.GetMessage());
```

I know exactly what it is I'm dealing with. Now let's take a look what ReSharper is suggesting:

```
var instance = MyFactory.Construct();  
Console.Write(instance.GetMessage());
```

R# suggests using implicitly typed vars

Now can you please elaborate on the readability of this code snippet? If I see this code I would HAVE TO go inside the Construct method to find out what the return type is.

I would STRONGLY recommend not to suggest implicitly typed vars by default. If somebody wants that it should be possible to turn it on but not by default.

What is your opinion about that?

Regards,

David Pokluda.

"Eugene Pasyнков (JetBrains)" <Eugene.Pasyнков@jetbrains.com> wrote in message news:[fphj9o\\$ejq\\$1@is.intelij.net](mailto:fphj9oejq1@is.intelij.net)...

As for me, it improves code readability and reduce code duplication

>

--

Eugene Pasyнков

Developer

JetBrains, Inc

R# suggests using implicitly typed vars

<http://www.jetbrains.com>

"Develop with pleasure!"

"Luis Abreu" <labreu@gmail.com> wrote in message

news:26279681.1203520748354.JavaMail.itn@is.intellij.net...

>> Hello.

>>

>> Why does R# suggests using implicit typed vars all over the palce? Is

>> there any good justification for this?

>>

>> Thanks.

>

Attachments:

- [MyClass.cs](#) (573 bytes)



Guest 3. **Re: R# suggests using implicitly typed vars** Feb 20, 2008 11:53 PM

I agree. Another example that makes code less readable:

```
class Class
```

```
{
```

```
    string myConstant = "abc";
```

```
    void Method()
```

R# suggests using implicitly typed vars

```
{  
    var a = new[] { myConstant };  
}  
}
```

R# would suggest changing `string[]` to `var`, but usually there should be some indicator of the type: either

```
string[] a = new[] ;
```

or

```
var a = new string[] ;
```

Either one is enough, both at the same time are not needed.

Thanks,

--Yuri

"David Pokluda" <info@online.pokluda.cz> wrote in message

news:[fphrsa\\$9ro\\$1@is.intellij.net](mailto:fphrsa$9ro$1@is.intellij.net)...

Well, I don't think I agree with that. I do see that in some places it is better to use VAR (Linq queries) but in other cases I would say it is more readable to use exact types. For example see the attached code. This is in my eyes readable code. If I look at the use of my class I see the

R# suggests using implicitly typed vars

following:

>

```
IClass instance = MyFactory.Construct();  
Console.Write(instance.GetMessage());
```

>

I know exactly what it is I'm dealing with. Now let's take a look what ReSharper is suggesting:

>

```
var instance = MyFactory.Construct();  
Console.Write(instance.GetMessage());
```

>

Now can you please elaborate on the readability of this code snippet? If I see this code I would HAVE TO go inside the Construct method to find out what the return type is.

>

I would STRONGLY recommend not to suggest implicitly typed vars by default.

If somebody wants that it should be possible to turn it on but not by default.

>

What is your opinion about that?

>

R# suggests using implicitly typed vars

Regards,
David Pokluda.

>

"Eugene Pasyнков (JetBrains)" <Eugene.Pasyнков@jetbrains.com> wrote in
message news:[fphj9o\\$ejq\\$1@is.intelij.net](mailto:fphj9oejq1@is.intelij.net)...

>> As for me, it improves code readability and reduce code duplication

>>

>> --

>> Eugene Pasyнков

>> Developer

>> JetBrains, Inc

>> <http://www.jetbrains.com>

>> "Develop with pleasure!"

>> "Luis Abreu" <labreu@gmail.com> wrote in message

>> news:26279681.1203520748354.JavaMail.itn@is.intelij.net...

>>> Hello.

>>>

>>> Why does R# suggests using implicit typed vars all over the palce? Is

>>> there any good justification for this?

>>>

>>> Thanks.

>>

R# suggests using implicitly typed vars

>>



Ilya Ryzhenkov *2,694 posts since*

Apr 13, 2004 4. **Re: R# suggests using implicitly typed vars** Feb 21, 2008 12:22 AM

Hello Yuri,

I would rename myConstant to explicitly state "what is it". It is identifier?

Member name? Resource name?

Give it meaningful name, and "var problems" will vanish.

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

Y> I agree. Another example that makes code less readable:

Y>

R# suggests using implicitly typed vars

Y> class Class

Y> {

Y> string myConstant = "abc";

Y> void Method()

Y> {

Y> var a = new[] { myConstant };

Y> }

Y> }

Y> R# would suggest changing string[] to var, but usually there should

Y> be some

Y> indicator of the type: either

Y> string[] a = new[] ;

Y> or

Y> var a = new string[] ;

Y> Either one is enough, both at the same time are not needed.

Y>

Y> Thanks,

Y> --Yuri

Y> "David Pokluda" <info@online.pokluda.cz> wrote in message

Y> news:[fphrsa\\$9ro\\$1@is.intelij.net](mailto:fphrsa$9ro$1@is.intelij.net)...

Y>

>> Well, I don't think I agree with that. I do see that in some places

R# suggests using implicitly typed vars

>> it is better to use VAR (Linq queries) but in other cases I would say

>> it is more readable to use exact types. For example see the attached

>> code. This is in my eyes readable code. If I look at the use of my

>> class I see the following:

>>

```
>> IClass instance = MyFactory.Construct();
```

```
>> Console.Write(instance.GetMessage());
```

>> I know exactly what it is I'm dealing with. Now let's take a look

>> what ReSharper is suggesting:

>>

```
>> var instance = MyFactory.Construct();
```

```
>> Console.Write(instance.GetMessage());
```

>> Now can you please elaborate on the readability of this code snippet?

>> If I see this code I would HAVE TO go inside the Construct method to

>> find out what the return type is.

>>

>> I would STRONGLY recommend not to suggest implicitly typed vars by

>> default.

>> If somebody wants that it should be possible to turn it on but not by

>> default.

>> What is your opinion about that?

>>

R# suggests using implicitly typed vars

>> Regards,

>> David Pokluda.

>> "Eugene Pasyнков (JetBrains)" <Eugene.Pasyнков@jetbrains.com> wrote

>> in message news:[fphj9o\\$ejq\\$1@is.intelij.net](mailto:fphj9oejq1@is.intelij.net)...

>>

>>> As for me, it improves code readability and reduce code duplication

>>>

>>> --

>>> Eugene Pasyнков

>>> Developer

>>> JetBrains, Inc

>>> <http://www.jetbrains.com>

>>> "Develop with pleasure!"

>>> "Luis Abreu" <labreu@gmail.com> wrote in message

>>> news:26279681.1203520748354.JavaMail.itn@is.intelij.net...

>>>> Hello.

>>>>

>>>> Why does R# suggests using implicit typed vars all over the palce?

>>>> Is there any good justification for this?

>>>>

>>>> Thanks.

>>>>

R# suggests using implicitly typed vars



[Eugene Vigdorchik](#) 3,735 posts since

Feb 26, 2003 5. **Re: R# suggests using implicitly typed vars** Feb 21, 2008 8:57 PM

Instead of forcing the user to encode the type in the name - which is equally verbose, why not provide a popup on 'var' with the inferred type, make a popup on variable reference display the inferred type as well (might have been already done, but to make it sure) and provide a code assist action to convert back to typeful declaration?



[Paul Bradshaw](#) 354 posts since

Aug 22, 2002 6. **Re: R# suggests using implicitly typed vars** Feb 21, 2008 9:13 PM

This is fine for writing new code, but what exactly is the behavior for existing code?

I'd hate to load up an old file and have Resharper insist that I could replace a type name with 'var' in 400 different places... which I won't do, because I'm maintaining existing code.

"Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message
news:76a2bd0b150d188ca4236f5347d45@news.intellij.net...

Hello Yuri,

>

I would rename myConstant to explicitly state "what is it". It is

R# suggests using implicitly typed vars

identifier? Member name? Resource name?

Give it meaningful name, and "var problems" will vanish.

>

Sincerely,

Ilya Ryzhenkov

>

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

>

>

Y> I agree. Another example that makes code less readable:

Y> Y> class Class

Y> {

Y> string myConstant = "abc";

Y> void Method()

Y> {

Y> var a = new[] { myConstant };

Y> }

Y> }

Y> R# would suggest changing string[] to var, but usually there should

Y> be some

R# suggests using implicitly typed vars

```
Y> indicator of the type: either  
Y> string[] a = new[] ;  
Y> or  
Y> var a = new string[] ;  
Y> Either one is enough, both at the same time are not needed.  
Y> Y> Thanks,  
Y> --Yuri  
Y> "David Pokluda" <info@online.pokluda.cz> wrote in message  
Y> news:fphrsa\$9ro\$1@is.intelij.net...  
Y>
```

```
>>> Well, I don't think I agree with that. I do see that in some places  
>>> it is better to use VAR (Linq queries) but in other cases I would say  
>>> it is more readable to use exact types. For example see the attached  
>>> code. This is in my eyes readable code. If I look at the use of my  
>>> class I see the following:  
>>>  
>>> IClass instance = MyFactory.Construct();  
>>> Console.Write(instance.GetMessage());  
>>> I know exactly what it is I'm dealing with. Now let's take a look  
>>> what ReSharper is suggesting:  
>>>  
>>> var instance = MyFactory.Construct();
```

R# suggests using implicitly typed vars

>>> Console.Write(instance.GetMessage());

>>> Now can you please elaborate on the readability of this code snippet?

>>> If I see this code I would HAVE TO go inside the Construct method to

>>> find out what the return type is.

>>>

>>> I would STRONGLY recommend not to suggest implicitly typed vars by

>>> default.

>>> If somebody wants that it should be possible to turn it on but not by

>>> default.

>>> What is your opinion about that?

>>>

>>> Regards,

>>> David Pokluda.

>>> "Eugene Pasyнков (JetBrains)" <Eugene.Pasyнков@jetbrains.com> wrote

>>> in message news:[fphj9o\\$ejq\\$1@is.intelij.net](mailto:fphj9oejq1@is.intelij.net)...

>>>

>>>> As for me, it improves code readability and reduce code duplication

>>>>

>>>> --

>>>> Eugene Pasyнков

>>>> Developer

>>>> JetBrains, Inc

R# suggests using implicitly typed vars

>>>> <http://www.jetbrains.com>

>>>> "Develop with pleasure!"

>>>> "Luis Abreu" <labreu@gmail.com> wrote in message

>>>> news:26279681.1203520748354.JavaMail.itn@is.intellij.net...

>>>>> Hello.

>>>>>

>>>>> Why does R# suggests using implicit typed vars all over the palce?

>>>>> Is there any good justification for this?

>>>>>

>>>>> Thanks.

>>>>>

>



[Ilya Ryzhenkov](#) 2,694 posts since

Apr 13, 2004 7. Re: **R# suggests using implicitly typed vars** Feb 22, 2008 12:05 AM

Hello Paul,

You just don't apply quick-fix! Or is it something like a second nature to

quick-fix all things around? 😊)

Actually, you can instantly change severity to hint from a quick-fix menu.

R# suggests using implicitly typed vars

Also, this doesn't change green status of file, or something like this.

Otherwise, how ReSharper can guess if you are maintaining legacy code or writing brand new code?

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

PB> This is fine for writing new code, but what exactly is the behavior

PB> for existing code?

PB>

PB> I'd hate to load up an old file and have ReSharper insist that I

PB> could replace a type name with 'var' in 400 different places...

PB> which I won't do, because I'm maintaining existing code.

PB>

PB> "Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message

PB> news:76a2bd0b150d188ca4236f5347d45@news.intellij.net...

PB>

R# suggests using implicitly typed vars

>> Hello Yuri,

>>

>> I would rename myConstant to explicitly state "what is it". It is

>> identifier? Member name? Resource name?

>> Give it meaningful name, and "var problems" will vanish.

>> Sincerely,

>> Ilya Ryzhenkov

>> JetBrains, Inc

>> <http://www.jetbrains.com>

>> "Develop with pleasure!"

>> Y> I agree. Another example that makes code less readable:

>> Y> Y> class Class

>> Y> {

>> Y> string myConstant = "abc";

>> Y> void Method()

>> Y> {

>> Y> var a = new[] { myConstant };

>> Y> }

>> Y> }

>> Y> R# would suggest changing string[] to var, but usually there

>> should

>> Y> be some

R# suggests using implicitly typed vars

>> Y> indicator of the type: either

>> Y> string[] a = new[] ;

>> Y> or

>> Y> var a = new string[] ;

>> Y> Either one is enough, both at the same time are not needed.

>> Y> Y> Thanks,

>> Y> --Yuri

>> Y> "David Pokluda" <info@online.pokluda.cz> wrote in message

>> Y> news:[fphrsa\\$9ro\\$1@is.intellij.net](mailto:fphrsa$9ro$1@is.intellij.net)...

>> Y>

>>>> Well, I don't think I agree with that. I do see that in some places

>>>> it is better to use VAR (Linq queries) but in other cases I would

>>>> say it is more readable to use exact types. For example see the

>>>> attached code. This is in my eyes readable code. If I look at the

>>>> use of my class I see the following:

>>>>

>>>> IClass instance = MyFactory.Construct();

>>>> Console.Write(instance.GetMessage());

>>>> I know exactly what it is I'm dealing with. Now let's take a look

>>>> what ReSharper is suggesting:

>>>> var instance = MyFactory.Construct();

>>>> Console.Write(instance.GetMessage());

R# suggests using implicitly typed vars

>>>> Now can you please elaborate on the readability of this code

>>>> snippet?

>>>> If I see this code I would HAVE TO go inside the Construct method

>>>> to

>>>> find out what the return type is.

>>>> I would STRONGLY recommend not to suggest implicitly typed vars by

>>>> default.

>>>> If somebody wants that it should be possible to turn it on but not

>>>> by

>>>> default.

>>>> What is your opinion about that?

>>>> Regards,

>>>> David Pokluda.

>>>> "Eugene Pasyukov (JetBrains)" <Eugene.Pasyukov@jetbrains.com> wrote

>>>> in message news:[fphj9o\\$ejq\\$1@is.intelij.net](mailto:fphj9oejq1@is.intelij.net)...

>>>>> As for me, it improves code readability and reduce code

>>>>> duplication

>>>>>

>>>>> --

>>>>> Eugene Pasyukov

>>>>> Developer

>>>>> JetBrains, Inc

R# suggests using implicitly typed vars

>>>> <http://www.jetbrains.com>

>>>> "Develop with pleasure!"

>>>> "Luis Abreu" <labreu@gmail.com> wrote in message

>>>> <news:26279681.1203520748354.JavaMail.itn@is.intellij.net...>

>>>>> Hello.

>>>>>

>>>>> Why does R# suggests using implicit typed vars all over the

>>>>> palce? Is there any good justification for this?

>>>>>

>>>>> Thanks.

>>>>>



[Ilya Ryzhenkov](#) *2,694 posts since*

Apr 13, 2004 **8. Re: R# suggests using implicitly typed vars** Feb 21, 2008 12:21 AM

Hello David,

I would just rename instance to classInstance (or whatever I

R# suggests using implicitly typed vars



Guest 9. **Re: R# suggests using implicitly typed vars** Feb 21, 2008 1:36 AM

Well, it would help. At the same time you can also suggest to rename the method to ConstructClassObject but I don't think that it is not the main reason of this thread.

I think that VARs are there so that Linq works. I think that trying to suggest/use to use VARs everywhere is wrong. We should use it where it make sense and use explicit types otherwise. I personally hope that it will be possible to turn it (the suggestions) off because it is confusing and it hurts the readability.

David.

"Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message
news:76a2bd0b150d178ca4236d00a4f3b@news.intellij.net...

Hello David,

>

I would just rename instance to classInstance (or whatever I<Name> maps to) and this would solve the problem. No?

>

Sincerely,

Ilya Ryzhenkov

R# suggests using implicitly typed vars

>

```
JetBrains, Inc  
http://www.jetbrains.com  
"Develop with pleasure!"
```

>

>

```
DP> Well, I don't think I agree with that. I do see that in some places  
DP> it is better to use VAR (Linq queries) but in other cases I would  
DP> say it is more readable to use exact types. For example see the  
DP> attached code. This is in my eyes readable code. If I look at the  
DP> use of my class I see the following:  
DP> DP> IClass instance = MyFactory.Construct();  
DP> Console.Write(instance.GetMessage());  
DP> I know exactly what it is I'm dealing with. Now let's take a look  
DP> what ReSharper is suggesting:  
DP> DP> var instance = MyFactory.Construct();  
DP> Console.Write(instance.GetMessage());  
DP> Now can you please elaborate on the readability of this code  
DP> snippet? If I see this code I would HAVE TO go inside the Construct  
DP> method to find out what the return type is.  
DP> DP> I would STRONGLY recommend not to suggest implicitly typed  
vars by  
DP> default. If somebody wants that it should be possible to turn it on
```

R# suggests using implicitly typed vars

```
DP> but not by default.  
DP> DP> What is your opinion about that?  
DP> DP> Regards,  
DP> David Pokluda.  
DP> "Eugene Pasyнков (JetBrains)" <Eugene.Pasyнков@jetbrains.com>  
wrote  
DP> in message news:fphj9o\$ejq\$1@is.intelij.net...  
DP>
```

>>> As for me, it improves code readability and reduce code duplication

>>>

>>> --

>>> Eugene Pasyнков

>>> Developer

>>> JetBrains, Inc

>>> <http://www.jetbrains.com>

>>> "Develop with pleasure!"

>>> "Luis Abreu" <labreu@gmail.com> wrote in message

>>> news:26279681.1203520748354.JavaMail.itn@is.intelij.net...

>>>> Hello.

>>>>

>>>> Why does R# suggests using implicit typed vars all over the palce?

>>>> Is there any good justification for this?

>>>>

R# suggests using implicitly typed vars

>>>> Thanks.

>>>>

>



Ilya Ryzhenkov 2,694 posts since

Apr 13, 2004 10. Re: R# suggests using implicitly typed vars Feb 21, 2008 1:50 AM

Hello David,

I very well understand you, because that was exactly my concern when I first started to use vars. I have different feeling now, but it doesn't matter

here 😊

So we prepared two analysis options, which you can configure in Options / Code Inspection / Inspection Severity

One does pretty conservative analysis, and the other suggests vars whenever possible. You can set it at your preferred style.

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

R# suggests using implicitly typed vars

"Develop with pleasure!"

DP> Well, it would help. At the same time you can also suggest to rename

DP> the method to ConstructClassObject but I don't think that it is not

DP> the main reason of this thread.

DP>

DP> I think that VARs are there so that Linq works. I think that trying

DP> to suggest/use to use VARs everywhere is wrong. We should use it

DP> where it make sense and use explicit types otherwise. I personally

DP> hope that it will be possible to turn it (the suggestions) off

DP> because it is confusing and it hurts the readability.

DP>

DP> David.

DP>

DP> "Ilya Ryzhenkov"



Guest [11](#). Re: R# suggests using implicitly typed vars Feb 21, 2008 3:59 AM

Hi Ilya,

R# suggests using implicitly typed vars

I was very glad to see the addition of code analysis "hints" in addition to "suggestions". I think many would agree that the severity for using implicitly typed vars should be "hint" by default, and not "suggestion".

Cheers,

Mike

"Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message
news:76a2bd0b150d968ca424339fbae4d@news.intellij.net...

Hello David,

>

I very well understand you, because that was exactly my concern when I first started to use vars. I have different feeling now, but it doesn't

matter here 😊

So we prepared two analysis options, which you can configure in Options / Code Inspection / Inspection Severity

One does pretty conservative analysis, and the other suggests vars whenever possible. You can set it at your preferred style.

>

Sincerely,

Ilya Ryzhenkov

>

R# suggests using implicitly typed vars

```
JetBrains, Inc  
http://www.jetbrains.com  
"Develop with pleasure!"
```

>

>

```
DP> Well, it would help. At the same time you can also suggest to rename  
DP> the method to ConstructClassObject but I don't think that it is not  
DP> the main reason of this thread.  
DP> DP> I think that VARs are there so that Linq works. I think that  
trying  
DP> to suggest/use to use VARs everywhere is wrong. We should use it  
DP> where it make sense and use explicit types otherwise. I personally  
DP> hope that it will be possible to turn it (the suggestions) off  
DP> because it is confusing and it hurts the readability.  
DP> DP> David.  
DP> DP> "Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message  
DP> news:76a2bd0b150d178ca4236d00a4f3b@news.intellij.net...  
DP>
```

>>> Hello David,

>>>

>>> I would just rename instance to classInstance (or whatever I

R# suggests using implicitly typed vars



[Ilya Ryzhenkov](#) 2,694 posts since

Apr 13, 2004 12. Re: **R# suggests using implicitly typed vars** Feb 21, 2008 7:15 PM

Hello Mike,

When there is explicit type on the right side - it is suggestion by default.

When there is no explicit type on the right side - it is hint by default.

So, what's being discussed, I wonder? 😊

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

MS> Hi Ilya,

MS>

MS> I was very glad to see the addition of code analysis "hints" in

MS> addition to "suggestions". I think many would agree that the

R# suggests using implicitly typed vars

MS> severity for using implicitly typed vars should be "hint" by

MS> default, and not "suggestion".

MS>

MS> Cheers,

MS> Mike

MS> "Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message

MS> news:76a2bd0b150d968ca424339fbae4d@news.intellij.net...

MS>

>> Hello David,

>>

>> I very well understand you, because that was exactly my concern

>> when I

>> first started to use vars. I have different feeling now, but it

>> doesn't

>> matter here 😊

>> So we prepared two analysis options, which you can configure in

>> Options /

>> Code Inspection / Inspection Severity

>> One does pretty conservative analysis, and the other suggests vars

>> whenever possible. You can set it at your preferred style.

>> Sincerely,

>> Ilya Ryzhenkov

R# suggests using implicitly typed vars

>> JetBrains, Inc

>> <http://www.jetbrains.com>

>> "Develop with pleasure!"

>> DP> Well, it would help. At the same time you can also suggest to

>> rename

>> DP> the method to ConstructClassObject but I don't think that it is

>> not

>> DP> the main reason of this thread.

>> DP> DP> I think that VARs are there so that Linq works. I think that

>> trying

>> DP> to suggest/use to use VARs everywhere is wrong. We should use it

>> DP> where it make sense and use explicit types otherwise. I

>> personally

>> DP> hope that it will be possible to turn it (the suggestions) off

>> DP> because it is confusing and it hurts the readability.

>> DP> DP> David.

>> DP> DP> "Ilya Ryzhenkov"



Guest [13](#). Re: **R# suggests using implicitly typed vars** Feb 22, 2008 7:47 PM

Hi Ilya,

R# suggests using implicitly typed vars

I personally changed both code inspection severities for using 'var' to "Show as hint" because of the sheer abundance of variable declarations in existing code. I find it distracting to see many green indicators in the text editor margin representing suggestions for using 'var'. While running code cleanup could automatically take care of these, we would prefer not to introduce so many new file differences into source control history for what is purely a cosmetic change. Also, "old habits die hard," as they say, and many developers would prefer to continue using explicit type declarations, particularly where primitive and string types are concerned. Consider the readability of "int x = 4" vs. "var x = 4", or even better, "decimal x = 4m" vs. "var x = 4m". In such cases, I find explicit typing more readable. While implicit typing is certainly useful for saving keystrokes, particularly where long type names or nested generic types are concerned, I contend that it is a purely cosmetic change, and thus better suited to be shown as a 'hint' rather than a 'suggestion'.

Best regards,

Mike Strobel

"Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message
news:76a2bd0b150eef8ca42d539286127@news.intelliij.net...

R# suggests using implicitly typed vars

Hello Mike,

>

When there is explicit type on the right side - it is suggestion by default.

When there is no explicit type on the right side - it is hint by default.

>

So, what's being discussed, I wonder? 😊

>

Sincerely,

Ilya Ryzhenkov

>

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

>

>

MS> Hi Ilya,

MS> MS> I was very glad to see the addition of code analysis "hints" in

MS> addition to "suggestions". I think many would agree that the

MS> severity for using implicitly typed vars should be "hint" by

MS> default, and not "suggestion".

MS> MS> Cheers,

R# suggests using implicitly typed vars

```
MS> Mike  
MS> "Ilya Ryzhenkov" <orangi@jetbrains.com> wrote in message  
MS> news:76a2bd0b150d968ca424339fbae4d@news.intelij.net...  
MS>
```

>>> Hello David,

>>>

>>> I very well understand you, because that was exactly my concern

>>> when I

>>> first started to use vars. I have different feeling now, but it

>>> doesn't

>>> matter here 😊

>>> So we prepared two analysis options, which you can configure in

>>> Options /

>>> Code Inspection / Inspection Severity

>>> One does pretty conservative analysis, and the other suggests vars

>>> whenever possible. You can set it at your preferred style.

>>> Sincerely,

>>> Ilya Ryzhenkov

>>> JetBrains, Inc

>>> <http://www.jetbrains.com>

>>> "Develop with pleasure!"

>>> DP> Well, it would help. At the same time you can also suggest to

R# suggests using implicitly typed vars

>>> rename

>>> DP> the method to ConstructClassObject but I don't think that it is

>>> not

>>> DP> the main reason of this thread.

>>> DP> DP> I think that VARs are there so that Linq works. I think that

>>> trying

>>> DP> to suggest/use to use VARs everywhere is wrong. We should use it

>>> DP> where it make sense and use explicit types otherwise. I

>>> personally

>>> DP> hope that it will be possible to turn it (the suggestions) off

>>> DP> because it is confusing and it hurts the readability.

>>> DP> DP> David.

>>> DP> DP> "Ilya Ryzhenkov"



[Ilya Ryzhenkov](#) *2,694 posts since*

Apr 13, 2004 [14](#). **Re: R# suggests using implicitly typed vars** Feb 22, 2008 11:32 PM

Hello Mike,

I very well understand you. No, really! Some time ago, when we've got var working well in ReSharper, I had the very same concerns as you currently have. I also thought that explicit type specification is better than var.

R# suggests using implicitly typed vars

Today, I use vars everywhere, and adopted somewhat different naming style (not Hungarian Notation) for my local variables.

That said, we are not going to change defaults, and if you don't like them, you are welcome to configure it to your taste.

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

MS> Hi Ilya,

MS>

MS> I personally changed both code inspection severities for using 'var'

MS> to "Show as hint" because of the sheer abundance of variable

MS> declarations in existing code. I find it distracting to see many

MS> green indicators in the text editor margin representing suggestions

MS> for using 'var'. While running code cleanup could automatically

MS> take care of these, we would prefer not to introduce so many new

R# suggests using implicitly typed vars

MS> file differences into source control history for what is purely a
MS> cosmetic change. Also, "old habits die hard," as they say, and many
MS> developers would prefer to continue using explicit type
MS> declarations, particularly where primitive and string types are
MS> concerned. Consider the readability of "int x = 4" vs. "var x = 4",
MS> or even better, "decimal x = 4m" vs. "var x = 4m". In such cases, I
MS> find explicit typing more readable. While implicit typing is
MS> certainly useful for saving keystrokes, particularly where long type
MS> names or nested generic types are concerned, I contend that it is a
MS> purely cosmetic change, and thus better suited to be shown as a
MS> 'hint' rather than a 'suggestion'.

MS>

MS> Best regards,

MS> Mike Strobel

MS> "Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message

MS> news:76a2bd0b150eef8ca42d539286127@news.intellij.net...

MS>

>> Hello Mike,

>>

>> When there is explicit type on the right side - it is suggestion by

>> default.

>> When there is no explicit type on the right side - it is hint by

R# suggests using implicitly typed vars

>> default.

>> So, what's being discussed, I wonder? 😊

>>

>> Sincerely,

>> Ilya Ryzhenkov

>> JetBrains, Inc

>> <http://www.jetbrains.com>

>> "Develop with pleasure!"

>> MS> Hi Ilya,

>> MS> MS> I was very glad to see the addition of code analysis "hints"

>> in

>> MS> addition to "suggestions". I think many would agree that the

>> MS> severity for using implicitly typed vars should be "hint" by

>> MS> default, and not "suggestion".

>> MS> MS> Cheers,

>> MS> Mike

>> MS> "Ilya Ryzhenkov" <orangy@jetbrains.com> wrote in message

>> MS> news:76a2bd0b150d968ca424339fbae4d@news.intellij.net...

>> MS>

>>>> Hello David,

>>>>

>>>> I very well understand you, because that was exactly my concern

R# suggests using implicitly typed vars

>>>> when I

>>>> first started to use vars. I have different feeling now, but it

>>>> doesn't

>>>> matter here 😊

>>>> So we prepared two analysis options, which you can configure in

>>>> Options /

>>>> Code Inspection / Inspection Severity

>>>> One does pretty conservative analysis, and the other suggests vars

>>>> whenever possible. You can set it at your preferred style.

>>>> Sincerely,

>>>> Ilya Ryzhenkov

>>>> JetBrains, Inc

>>>> <http://www.jetbrains.com>

>>>> "Develop with pleasure!"

>>>> DP> Well, it would help. At the same time you can also suggest to

>>>> rename

>>>> DP> the method to ConstructClassObject but I don't think that it is

>>>> not

>>>> DP> the main reason of this thread.

>>>> DP> DP> I think that VARs are there so that Linq works. I think

>>>> that

>>>> trying

R# suggests using implicitly typed vars

>>>> DP> to suggest/use to use VARs everywhere is wrong. We should use

>>>> it

>>>> DP> where it make sense and use explicit types otherwise. I

>>>> personally

>>>> DP> hope that it will be possible to turn it (the suggestions) off

>>>> DP> because it is confusing and it hurts the readability.

>>>> DP> DP> David.

>>>> DP> DP> "Ilya Ryzhenkov"



[Evgeny Pasyukov](#) 6,088 posts since

Dec 3, 2003 15. **Re: R# suggests using implicitly typed vars** Feb 21, 2008 12:01 PM

As you may notice, there are 2 kinds of "replace-to-var" suggestions. The first is when the type is evident from the right part, and the second where it doesn't.

For example, compare these 2 lines:

```
Dictionary<MyClass1,MyClass2> dictionary = new
```

```
Dictionary<MyClass1,MyClass2>();
```

R# suggests using implicitly typed vars

and

```
var dictionary = new Dictionary<MyClass1,MyClass2>();
```

--

Eugene Pasyukov

Developer

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

"David Pokluda" <info@online.pokluda.cz> wrote in message

news:[fphrsa\\$9ro\\$1@is.intellij.net](mailto:fphrsa$9ro$1@is.intellij.net)...

Well, I don't think I agree with that. I do see that in some places it is better to use VAR (Linq queries) but in other cases I would say it is more readable to use exact types. For example see the attached code. This is in my eyes readable code. If I look at the use of my class I see the following:

>

```
IClass instance = MyFactory.Construct();  
Console.Write(instance.GetMessage());
```

>

I know exactly what it is I'm dealing with. Now let's take a look what

R# suggests using implicitly typed vars

ReSharper is suggesting:

>

```
var instance = MyFactory.Construct();  
Console.Write(instance.GetMessage());
```

>

Now can you please elaborate on the readability of this code snippet? If I see this code I would HAVE TO go inside the Construct method to find out what the return type is.

>

I would STRONGLY recommend not to suggest implicitly typed vars by default.

If somebody wants that it should be possible to turn it on but not by default.

>

What is your opinion about that?

>

Regards,

David Pokluda.

>

"Eugene Pasyukov (JetBrains)" <Eugene.Pasyukov@jetbrains.com> wrote in

message news:[fphj9o\\$ejq\\$1@is.intelij.net](mailto:fphj9oejq1@is.intelij.net)...

>> As for me, it improves code readability and reduce code duplication

R# suggests using implicitly typed vars

>>

>> --

>> Eugene Pasyukov

>> Developer

>> JetBrains, Inc

>> <http://www.jetbrains.com>

>> "Develop with pleasure!"

>> "Luis Abreu" <labreu@gmail.com> wrote in message

>> <news:26279681.1203520748354.JavaMail.itn@is.intellij.net...>

>>> Hello.

>>>

>>> Why does R# suggests using implicit typed vars all over the palce? Is

>>> there any good justification for this?

>>>

>>> Thanks.

>>

>>



[Joao Paulo Carreiro](#) 196 posts since

Apr 2, 2004 16. Re: R# suggests using implicitly typed vars Feb 21, 2008 1:51 PM

R# suggests using implicitly typed vars

Hi Eugene,

I did notice there are 2 types of var replace suggestions, the first one from your example, that you called "Use 'var' keyword when initializer explicitly declares type", and that one I agree 100% with you, the code is easier to read with the var and we have adapted to our coding standards.

Everything else you've called "Use 'var' keyword when possible", and you can use it on foreach or from method calls like:

```
var x = CalculateX();
```

those ones make the code less legible. But the fact that R# 4 has several "severity warnings" that are user configurable makes this a non issue.

My suggestion for the defaults is to make the "Use 'var' keyword when initializer explicitly declares type" as hint, and the "Use 'var' keyword when possible" to "do not show", but maybe that will make the second one less discoverable?



Guest [17](#). **Re: R# suggests using implicitly typed vars** Feb 21, 2008 7:02 PM

I agree with both Mike & Joao's posts: converting to var when there is no explicit type given on the right side should be a hint, not recommendation.

"Joao Paulo Carreiro" <no_replay@jetbrains.com> wrote in message

news:22467193.1203591093917.JavaMail.itn@is.intellij.net...

Hi Eugene,

>

R# suggests using implicitly typed vars

I did notice there are 2 types of var replace suggestions, the first one from your example, that you called "Use 'var' keyword when initializer explicitly declares type" , and that one I agree 100% with you, the code is easier to read with the var and we have adapted to our coding standards.

>

Everything else you've called "Use 'var' keyword when possible", and you can use it on foreach or from method calls like:

```
var x = CalculateX();
```

>

those ones make the code less legible. But the fact that R# 4 has several "severity warnings" that are user configurable makes this a non issue.

>

My suggestion for the defaults is to make the "Use 'var' keyword when initializer explicitly declares type" as hint, and the "Use 'var' keyword when possible" to "do not show", but maybe that will make the second one less discoverable?



Ilya Ryzhenkov 2,694 posts since

Apr 13, 2004 18. Re: R# suggests using implicitly typed vars Feb 21, 2008 7:11 PM

R# suggests using implicitly typed vars

Hello Yuri,

Exactly, and this is the default. What's wrong?

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

Y> I agree with both Mike & Joao's posts: converting to var when there

Y> is no explicit type given on the right side should be a hint, not

Y> recommendation.

Y>

Y> "Joao Paulo Carreiro" <no_replay@jetbrains.com> wrote in message

Y> news:22467193.1203591093917.JavaMail.itn@is.intellij.net...

Y>

>> Hi Eugene,

>>

>> I did notice there are 2 types of var replace suggestions, the first

R# suggests using implicitly typed vars

>> one from your example, that you called "Use 'var' keyword when

>> initializer explicitly declares type" , and that one I agree 100%

>> with you, the code is easier to read with the var and we have adapted

>> to our coding standards.

>>

>> Everything else you've called "Use 'var' keyword when possible", and

>> you

>> can use it on foreach or from method calls like:

>> var x = CalculateX();

>> those ones make the code less legible. But the fact that R# 4 has

>> several "severity warnings" that are user configurable makes this a

>> non issue.

>>

>> My suggestion for the defaults is to make the "Use 'var' keyword when

>> initializer explicitly declares type" as hint, and the "Use 'var'

>> keyword when possible" to "do not show", but maybe that will make the

>> second one less discoverable?

>>



Ilya Ryzhenkov 2,694 posts since

R# suggests using implicitly typed vars

Apr 13, 2004 19. Re: R# suggests using implicitly typed vars Feb 21, 2008 7:13 PM

Hello Joao,

Indeed, this will make it non-discoverable. I think we will leave default as is - suggestion for more conservative analysis and hint for all other.

You can change severity right from QuickFix, so everyone can configure to their taste instantly.

Sincerely,

Ilya Ryzhenkov

JetBrains, Inc

<http://www.jetbrains.com>

"Develop with pleasure!"

JC> Hi Eugene,

JC>

JC> I did notice there are 2 types of var replace suggestions, the first

JC> one from your example, that you called "Use 'var' keyword when

JC> initializer explicitly declares type" , and that one I agree 100%

JC> with you, the code is easier to read with the var and we have

JC> adapted to our coding standards.

R# suggests using implicitly typed vars

JC>

JC> Everything else you've called "Use 'var' keyword when possible", and

JC> you can use it on foreach or from method calls like:

JC>

JC> var x = CalculateX();

JC>

JC> those ones make the code less legible. But the fact that R# 4 has

JC> several "severity warnings" that are user configurable makes this a

JC> non issue.

JC>

JC> My suggestion for the defaults is to make the "Use 'var' keyword

JC> when initializer explicitly declares type" as hint, and the "Use

JC> 'var' keyword when possible" to "do not show", but maybe that will

JC> make the second one less discoverable?

JC>



[Joao Paulo Carreiro](#) 196 posts since

Apr 2, 2004 20. **Re: R# suggests using implicitly typed vars** Feb 21, 2008 9:23 PM

Makes sense.

R# suggests using implicitly typed vars

BTW, I really love the quickfix configure. Keep up the good work 😊