

Productivity Tips for Visual Studio 2017

Visual Studio 2017 is faster, leaner, and full of new productivity features to help you write and publish code faster.



```
public class Class1
{
    ✓ public int Method1() => 21;
    ✗ public int Method2()
    {
        ✗ int a = 10;
        ✗ const int b = 22;
        ✗ int c = a + b;
        ✗ return c;
    }
    - public string Method3() => "Method3";
}
```

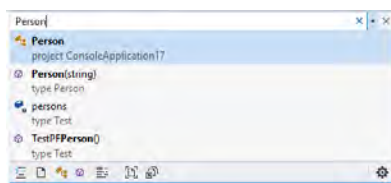
Advanced IntelliSense

Our improved IntelliSense will help you type faster with our new prediction algorithm. New IntelliSense filtering and highlighting helps you find what you are looking for, especially in APIs and code you are not familiar with.

Live unit testing

Live Unit Testing in Visual Studio Enterprise automatically runs the impacted unit tests in the background as you type. It also provides real-time feedback on which lines of code are hit by passing and failing unit tests, dramatically improving your productivity with writing and maintaining unit tests.

```
public MainWindow()
{
    InitializeComponent();
    ViewModel = new MainViewModel();
    this.WhenAnyValue(x => x.ViewModel).BindTo(this, x => x.DataContext);
    this.MC
}
// ContextMenuClosing
// GotMouseCapture
// IsMouseCapturedChanged
// IsMouseCaptureWithinChanged
// IsMouseDirectlyOverChanged
// LostMouseCapture
// MouseEnterCompleted
// MouseDoubleClick
// PreviewMouseDoubleClick
```



Fast code navigation

Navigate your code to quickly find types, open files, and identify everywhere a type is referenced in your codebase.

Powerful live code analysis

Inline visualizations identify errors in your code so you can get immediate feedback on the quality as you type. They also identify places in your code where you can follow best coding practices, adhere to team-defined style rules, or apply one of our many refactorings, code actions, and code fixes.

```
public void DoStuff()
{
    int i;
    // IDE0018 Inline variable declaration
    // Suppress IDE0018
    {
        int i;
        if (int.TryParse("", out i))
        {
            if (int.TryParse("", out int i))
            {
            }
        }
    }
}
```

Custom Code Analysis

Don't see an analyzer or refactoring you want? Write your own Roslyn analyzer and code fix, or use one of the many analyzers/fixers written by our awesome OSS community.

Download live analyzers for common FX Cop Rules at <https://github.com/dotnet/roslyn-analyzers>

Become a Power User. Master the shortcuts with Visual Studio 2017.

Code Assistance & Analysis			
	Visual Studio 2015	Visual Studio 2017	ReSharper
Show available quick actions and refactorings	Ctrl + .	Alt+Enter or Ctrl + .	Alt+Enter
IntelliSense code completion	Ctrl + Space	Ctrl + Space	Ctrl + Space
Format Document	Ctrl+E, D	Ctrl+E, D	Ctrl+E, C
Format Selection	Ctrl+E, F	Ctrl+E, F	Ctrl+E, C
Parameter Info/Signature Help	Ctrl+K, P	Ctrl+K, P	Ctrl+Shift+Space
Move code up/down	Alt+Up/Down Arrow	Alt+Up/Down Arrow	Ctrl+Shift+Alt+Up/Down Arrow
Comment with line comment	Ctrl+K, C	Ctrl+K, C	Ctrl+Alt+/
Uncomment line comment	Ctrl+K, U	Ctrl+K, U	Ctrl+Shift+/
Search and Navigation			
Finding References/Usages			
Find All References	Shift+F12	Shift+F12	Shift+F12
Cycle through references	F8	F8	Ctrl+Alt+PgUp/PgDown
Quick Find	Ctrl+F	Ctrl+F	Ctrl+F
Find/Replace in Files	Ctrl+Shift+F	Ctrl+Shift+F	N/A
Go To			
Go To Definition	F12	F12	F12
Peek Definition	Alt+F12	Alt+F12	Ctrl+Shift+Q
Go To Implementation	Ctrl+F12	Ctrl+F12	Ctrl+Alt, click
Go To All/Type/File/Member/Symbol	Ctrl + ,	Ctrl + , or Ctrl+T	Ctrl + T
Open Error List	Ctrl+W,E	Ctrl+W,E	N/A
Go To Next Error	F8	F8	Shift+Alt+PgUp/PgDown
Refactorings			
Rename	Ctrl+R, R	Ctrl+R, R	Ctrl+R, R
Move Type to Matching File	N/A	Ctrl+. or Alt+Enter	Ctrl+Shift+R
Introduce temporary variable	Ctrl + .	Ctrl+. or Alt+Enter	Ctrl+R, V
Inline temporary variable	Ctrl + .	Ctrl+. or Alt+Enter	Ctrl+R, I
Encapsulate field	Ctrl + .	Ctrl+. or Alt+Enter or Ctrl+R,E	Ctrl+R, E
Change signature	Ctrl + .	Ctrl+. or Alt+Enter	Ctrl+R, S
Remove Parameters	Ctrl+. or Ctrl+R, V	Ctrl+. or Alt+Enter or Ctrl+R, V	Ctrl+R, S
Reorder Parameters	Ctrl+. or Ctrl+R, O	Ctrl+. or Alt+Enter or Ctrl+R, O	Ctrl+R, S
Extract Method	Ctrl+. or Ctrl+R, M	Ctrl+. or Alt+Enter or Ctrl+R, M	Ctrl+R, M
Extract Interface	Ctrl+. or Ctrl+R, I	Ctrl+. or Alt+Enter or Ctrl+R, I	Ctrl+Shift+R
Other			
Sync active file with Solution Explorer	Ctrl+[, S	Ctrl+[, S	Shift+Alt+L
Send code snippet to C# Interactive Window	Ctrl+E, E	Ctrl+E, E	N/A

Want to remap your shortcuts? Try <https://aka.ms/hotkeys>