CONNECT WITH ME:

f G+ in 𝕏 ▶YouTube ◯

BLOG   TRAINING   MENTORING   DEV TIPS   ARCHITECTURE EBOOK   TOOLS USED   ABOUT

```
13      {
14          "Freezing", "Bracing", "Chilly", "Cool", "Mild", "Warm", "Balmy", "Hot
15      };
16
17      [HttpGet("[action]")]
        0 references | 0 requests | 0 exceptions
18      public IEnumerable<WeatherForecast> WeatherForecasts()
        ⚙ 🔓
19      {
20          var rng = new Random();
        Location: SampleDataController.cs, line 20 character 13 ('WebApplication8.Controllers.SampleDataController.WeatherForecasts()')
22          {
23              DateFormatted = DateTime.Now.AddDays(index).ToString('
24              TemperatureC = rng.Next(-20, 55),
25              Summary = Summaries[rng.Next(Summaries.Length)]
26          });
27      }
28
        2 references
29      public class WeatherForecast
30      {
```

Want to be a better ...

Dev Tips Weekly

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

👤 STEVE SMITH   📅 30 AUG 2017   💬 0 COMMENTS

Breakpoint Labels in Visual Studio

Breakpoints offer a great way to debug our software, letting us literally stop time during code execution and inspect what's going on at that moment. It's a bit like being a speedster like Quicksilver, who can almost stop time and manipulate the environment between moments in time:
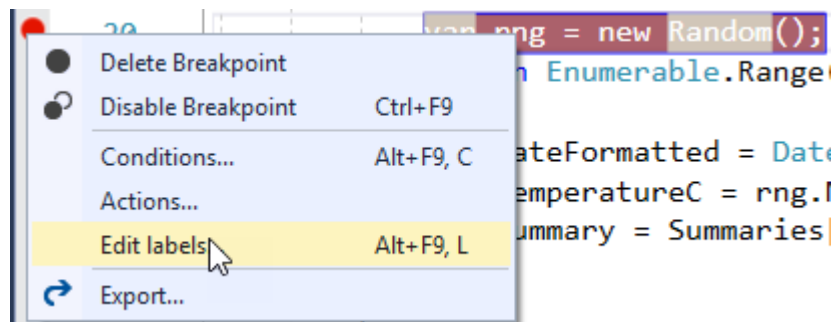

Unfortunately, in larger applications, we may find that we have quite a few places where we want to stop and inspect the code. We may have a dozen or more breakpoints, and some of may be hit multiple times within a given user interaction with the application. There are a of features that can help with this, but today the one I want to discuss is breakpoint labels.

Within Visual Studio, once you've created a breakpoint, you can add one or more labels to it simply right-clicking and choosing Edit Labels:
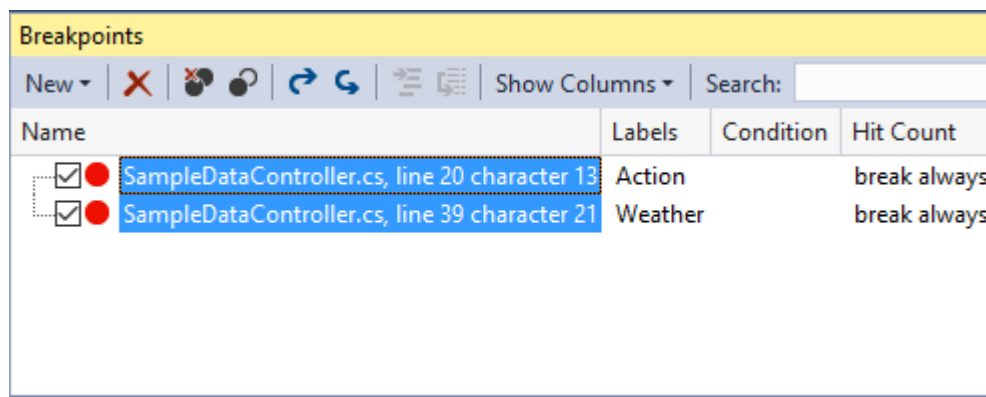
Want to be a better …

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

After adding labels to breakpoints, you can view them in the Breakpoints window:

The Breakpoints window is useful for quickly navigating to certain breakpoints, as well as q
enabling or disabling breakpoints (or setting conditions – more on that in another post).

Visual Studio will persist your breakpoints, so when you close and reopen your solution, you
breakpoints (and their labels and whether or not they are enabled) will remain. In some cas
may make sense for you to keep some breakpoints around as just a part of your codebase a
you navigate around in it. Of course, since they're stored in .suo files that typically aren't ch
into source control, you probably won't be sharing your breakpoints with other members of
team. But that doesn't mean they're not useful for you.

Want to be a better …

Get **free** developer tips from Steve
(Ardalis) direct to your inbox every
Wednesday.

If you present code at conferences, user groups, etc., you may find labeled breakpoints useful during demos. You can add a label like "Demo1" to some breakpoints, and "Demo2" to others. Toggle which breakpoints are enabled when you run your application in order to demonstrate different topics.

This feature has been around for quite a while, though I believe in the earliest versions it was limited to certain versions of Visual Studio. I think today in Visual Studio 2017 you can access this feature from all versions (please leave a comment if this isn't the case and let me know).

🗁 FILED UNDER: SOFTWARE DEVELOPMENT

🏷 TAGGED WITH: TIP, VISUAL STUDIO

About Steve Smith

Steve is an experienced software architect and trainer, focusing currently on ASP.NET Core and Domain-Driven Design. His courses on Pluralsight help developers write better, more maintainable code. He is available for applicat

assessments and team mentoring engagements.

Want to be a better …

Dev Tips Weekly

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

0 Comments   **Ardalis**

♡ **Recommend** 1   🐦 Tweet   f Share

Sort by Best ▾

👤 ┌─────────────────────────────────────┐
   │ Start the discussion…   │
   └─────────────────────────────────────┘

LOG IN WITH   OR SIGN UP WITH DISQUS ⑦

┌─────────────────────────────────────┐
│ Name   │
└─────────────────────────────────────┘

Be the first to comment.

ALSO ON **ARDALIS**

Running Integration Tests in Build Pipelines with a Real Database

4 comments • 2 months ago

👤 ozkanb — If nobody can access the replicated data except the testing agent, no privacy rule is violated. What other concern could there be? There are ways

Ultimate Developer Rig 2019

2 comments • 8 months ago

👤 ardalis — No, but to be fair, nothing is slow on this machine. I don't have any problems with VS2019 on my other machines, either, including my 2014 MBP,

dotnet-ef does not exist

2 comments • 2 months ago

👤 Matthew Edmondson — Also rememb user-specific. So if you're installing th by a tool ran under a different user it

Domain-Driven Design with ASP.NE Workshop

6 comments • 22 days ago

👤 Graeme — Do you have video or eLe of this course? I live in New Zealand not possible to attend a workshop in t

Want to be a better …

Dev Tips Weekly

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

✉ **Subscribe**   Ď **Add Disqus to your site**Add DisqusAdd   🔒 **Disqus' Privacy Policy**Privacy PolicyPrivacy

Search this website ...

//   ONLINE TRAINING

› ASP.NET Core Quick Start

› Domain-Driven Design Fundamentals

› Refactoring Fundamentals

› Kanban Fundamentals

› SOLID Principles of OO Design
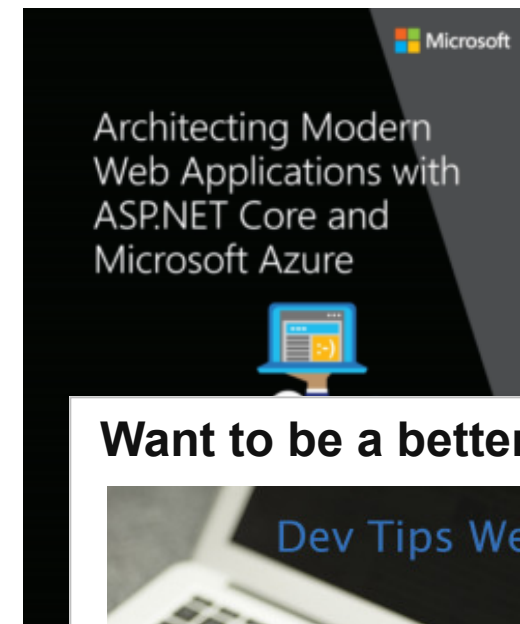
› Pair Programming

//

Want to be a better …

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

and

Plu

wri

available for application assessments and
team mentoring engagements.

Sign up to receive a free developer tip from
Steve in your inbox every Wednesday.

//   FREE ARCHITECTURE EBOOK

Get

Want to be a better …

Get **free** developer tips from Steve
(Ardalis) direct to your inbox every
Wednesday.

//

› Using Grep to Find Strings in Markdown .md Files on Windows

› Domain-Driven Design with ASP.NET Core Workshop

› Moving from Controllers and Actions to Endpoints with MediatR

› Sketch Themes for Prototypes

› Be Humble and Kind

// POPULAR ARTICLES

› Force Nuget to Reinstall Packages without Updating

1,272 views

› T
Rea

708

› E
672

› S
Alre
560

› V
541

Want to be a better …

Dev Tips Weekly

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

//   CATEGORIES

› Iraq (118)

› Personal (6)

› Productivity (74)

› Security (5)

› Software Development (435)

› Uncategorized (890)

//   RECENT TWEETS BY @ARDALIS

Want to be a better …

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

Tweets by @ardalis

Steve "ardalis" Smith Retweeted

Andrien Gbinigie
@EscoBlades

Here's a breakdown of the impeachment process.

What happens next in impeachment process?

Six House committees investigating President Trump make submissions to the House Judiciary Committee, which considers the case for impeachment

Insufficient evidence of wrongdoing is found

Trump remains in office

Sufficient evidence of wrongdoing is found

The House votes on articles of impeachment

Less than a majority support impeachment

A simple majority (51%) support impeachment

Want to be a better …

Dev Tips Weekly

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.

Want to be a better …

Get **free** developer tips from Steve (Ardalis) direct to your inbox every Wednesday.