

# Corporate overview

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2021

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- Our products
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# About



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# About JetBrains

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JetBrains is a global software vendor specializing in the creation of intelligent, productivity-enhancing tools for software developers and teams. It maintains its headquarters in Prague, Czech Republic, with R&D labs located in St. Petersburg, Moscow, Novosibirsk, Munich, Amsterdam, and Boston. JetBrains employs more than 1500 people and is grown organically, with no external funding. Its product catalog includes award-winning tools such as IntelliJ IDEA, ReSharper, PyCharm and WebStorm.

- Founded in February 2000
- Funding: private
- CEO: Maxim Shafirov

Headquarters JetBrains s.r.o., registered seat at Na Hřebenech II 1718/10, Praha 4 - Nusle - 140 00, Czech Republic, ID: 26502275, VAT ID: CZ 26502275, company is registered in the Commercial Register maintained by Municipal Court in Prague, Section C, insert 86211



# JetBrains: The Drive to Develop

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At JetBrains, code is our passion. Ever since we started, back in 2000, we have strived to make the strongest, most effective developer tools on earth. By automating routine checks and corrections, our tools speed up production, freeing developers to grow, discover, and create.

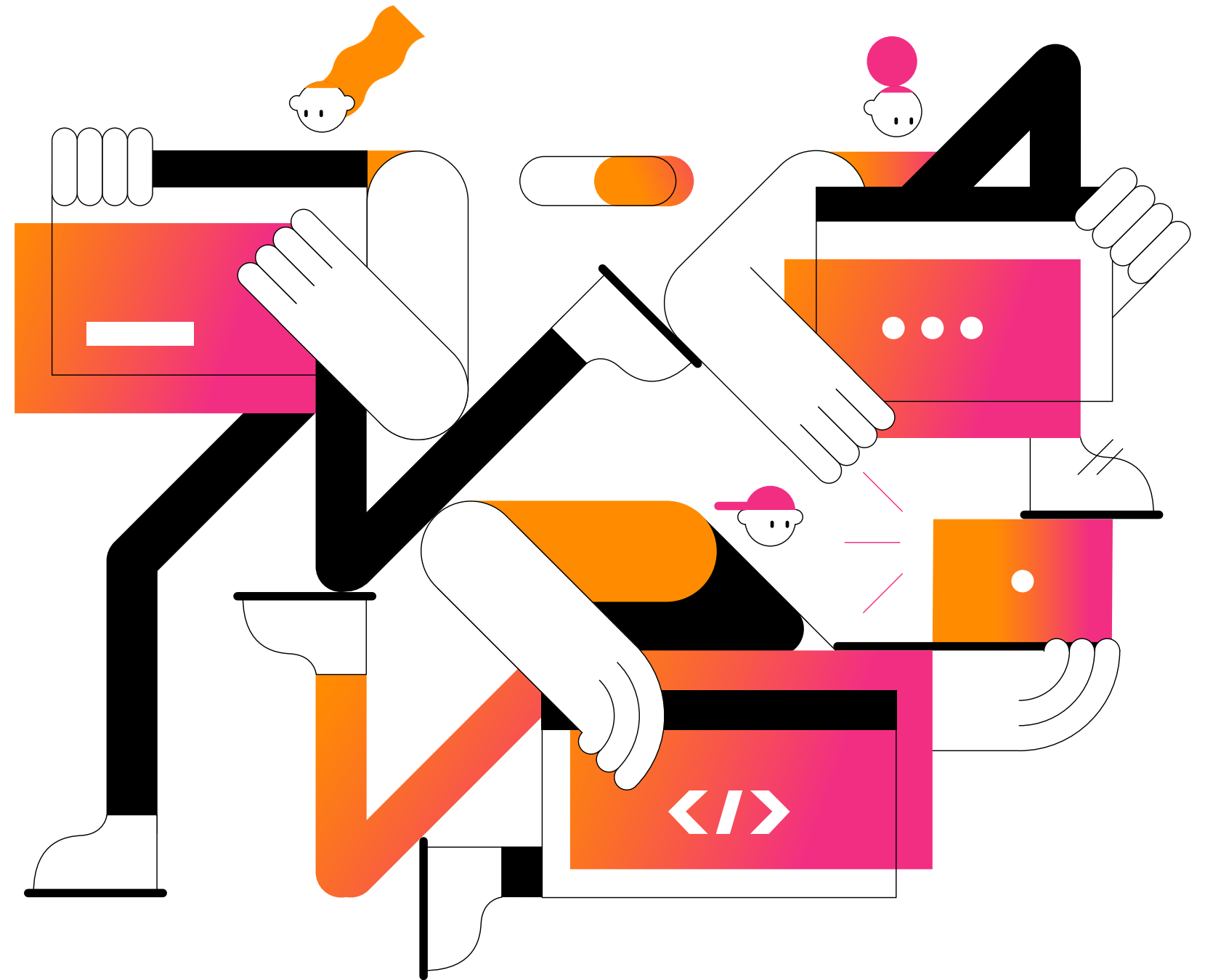


# Our mission

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We make professional software development a more productive and enjoyable experience.

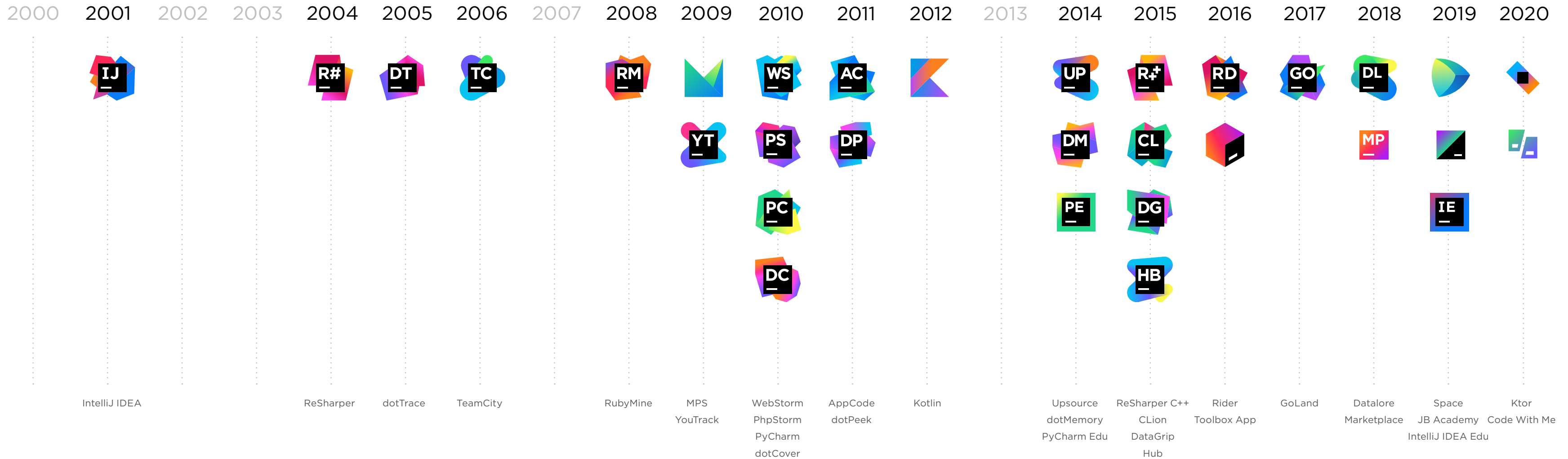
We help developers work faster by automating common, repetitive tasks to enable them to stay focused on code design and the big picture. We provide tools to explore and familiarize with code bases faster. Our products make it easy for developers to take care of quality during all the stages of development and spend much less time on maintenance tasks.



# Our history

10M+  
users

30 products and more launched to date



# Our products

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At JetBrains, we believe that using the right tool matters for every job. With our products, we cover all the stages of the software development cycle and support productive team collaboration.

# For developers

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## IDEs

**IntelliJ IDEA** — The most intelligent Java IDE

**PyCharm** — Python IDE for professional developers

**PhpStorm** — Lightning-smart PHP IDE

**RubyMine** — The Intelligent Ruby and Rails IDE

**WebStorm** — The smartest JavaScript IDE

**AppCode** — Smart IDE for iOS/macOS development

**CLion** — A cross-platform C/C++ IDE

**DataGrip** — The SQL IDE

**GoLand** — Capable and Ergonomic Go IDE

**Rider** — Cross-platform .NET IDE

**Code With Me** — The collaborative development service

**Toolbox App** — A control panel for your tools and projects

## Languages & Frameworks

**Kotlin** — Statically typed programming language for the JVM, Android and the browser

**Ktor** — An asynchronous framework for creating microservices, web applications, and more

**MPS** — Create your own domain-specific language

## .NET & VS tools

**ReSharper** — Visual Studio extension for .NET developers

**ReSharper C++** — Visual Studio extension for C++ developers

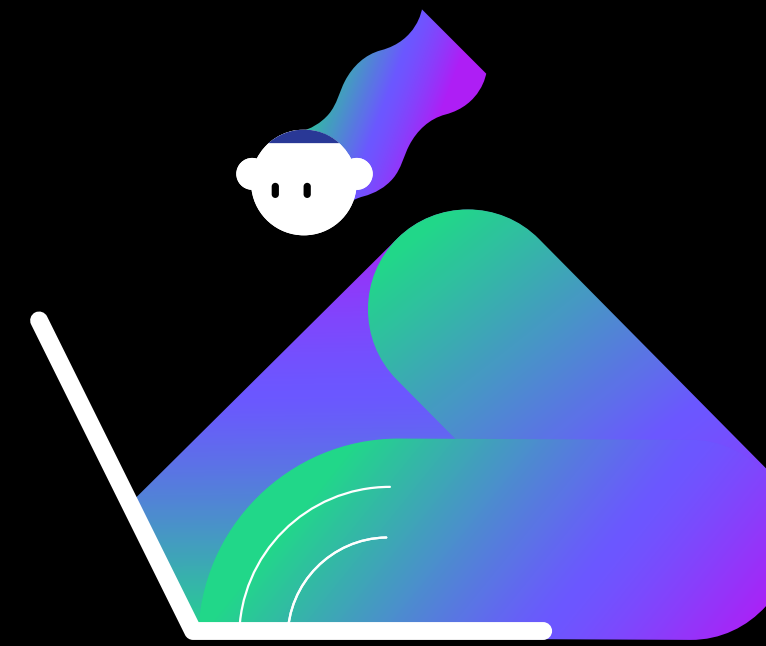
**Rider** — Cross-platform .NET IDE

**dotTrace** — .NET performance profiler

**dotCover** — .NET unit test runner and code coverage tool

**dotMemory** — .NET memory profiler

**dotPeek** — Free .NET decompiler and assembly browser



# For teams

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**Space** — The integrated team environment

**TeamCity** — Powerful continuous integration out of the box

**Upsource** — Code review, project analytics

**Datalore** — Intelligent web application for data analysis

**YouTrack** — The project management tool designed for agile teams

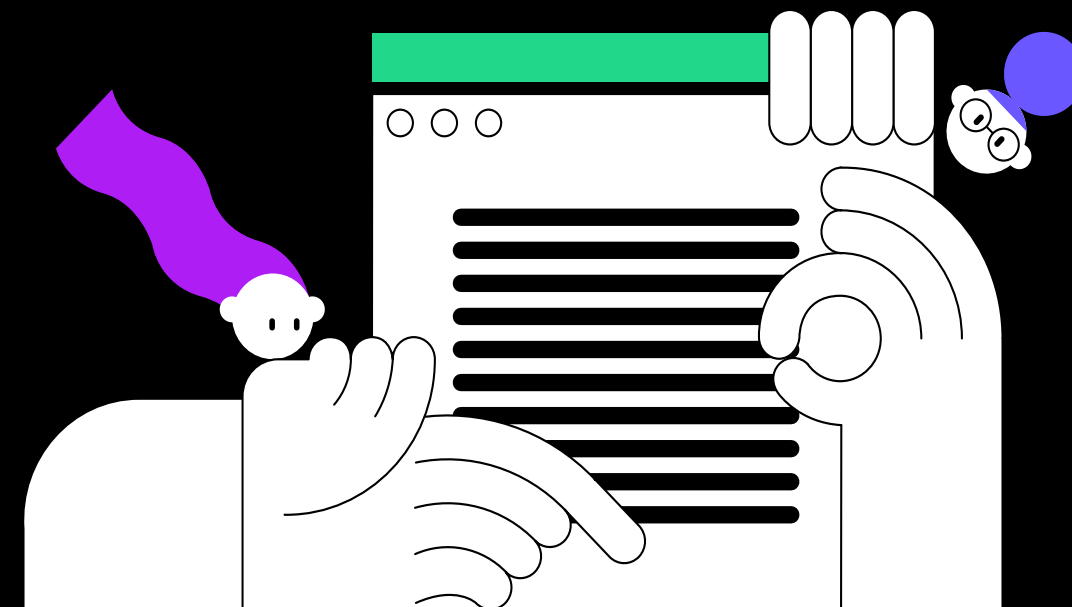
**Hub** — The YouTrack, TeamCity, and Upsource connector

# For learners and educators

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**JetBrains Academy** — Learn programming by creating working applications

**Educational IDEs** — free to use and support Kotlin, Java, Python, JavaScript, Rust, C/C++, Scala, and Go.



# New products

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At JetBrains, we continue to innovate new technology to meet the needs of developers in the modern world.



Ktor



Space



Code With Me

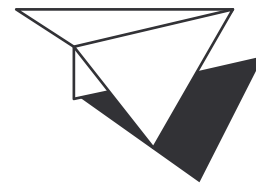


Ktor is an asynchronous framework for creating microservices, web applications, and more. It's fun, free, and open source.

Ktor is a multiplatform framework built from the ground up using Kotlin and coroutines, and it can be used to create connected applications. Whether you're creating websites, HTTP backends, RESTful systems, or even socket applications, Ktor provides you with everything you need.

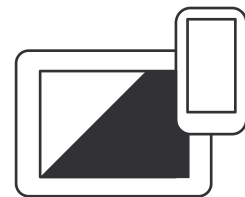
Learn more at [ktor.io](https://ktor.io)

```
fun main() {
    embeddedServer(Netty, port = 8000) {
        routing {
            get("/") {
                call.respondText("Hello, world!")
            }
        }
    }.start(wait = true)
}
```



## Lightweight

Use what you need. Ktor allows you to transparently configure only the functionality your project requires. No magic involved!



## Extensible

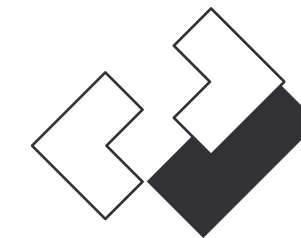
Extend what you need. With a configurable pipeline, you can create the extensions you need and place them anywhere you want.

# Simple and fun



## Multiplatform

Run it where you need it. Built from the ground up with [Kotlin Multiplatform](#) technology, you can deploy Ktor applications anywhere.



## Asynchronous

Scales as you need it. Using Kotlin [coroutines](#), Ktor is truly asynchronous and highly scalable. Use the power of non-blocking development without the callback nightmare.





## The integrated team environment

Space is an all-in-one extensible team collaboration solution that covers software development, project and team management, and communications.

It ensures organizational transparency with the team directory; efficient communication with chats, documents, blogs, meetings, and calendars, as well as effective project management with checklists, an issue tracker, and issue boards. It also covers the software development pipeline with Git hosting, code reviews, automation, CI/CD pipelines, and package management. Space is flexible, extensible, and customizable to the needs of your team and your organization. Start using it today with the free cloud plan for unlimited users.

Learn more and sign up for free [jetbrains.com/space](https://jetbrains.com/space)

The screenshot shows the Space application interface for Galactic Travels Inc. The interface is divided into several sections:

- Calendar:** Shows a calendar for "Today, 23 Oct, Fri" with events like "Maarten/Maxim" (13:00 - 14:00), "Daily Standup" (15:00 - 16:00), "Birthday of Lucille Percy" (28 Oct), and "Vacation" (1-3 Nov).
- Followed Members and Teams:** Displays team members and their availability. For example, "Software Development 13" has 11 members at work, 11 available, and 2 unavailable.
- Favorite Projects:** Lists projects like "Ktor.io" (4 repositories) and "Transportation" (no repositories).
- Code Reviews:** Shows reviews for "KTORIO-MR-12" (Update nightly build schedule) and "KTORIO-MR-13" (Chat application updates).
- Recent Blog Posts:** Displays posts like "Piece of cake!" by Hadi Smith (2 Oct 14:35) and "Warp drive slowdown on October 8" by Christiana Brennan (29 Sep 16:52).

Callout boxes highlight the following features:

- Check the availability of your teammates
- Schedule meetings and add absences
- View commits, browse files, check a repository
- Check the code reviews assigned to you
- Never miss an important update with the company blog

At the bottom, a grid of feature buttons is shown:

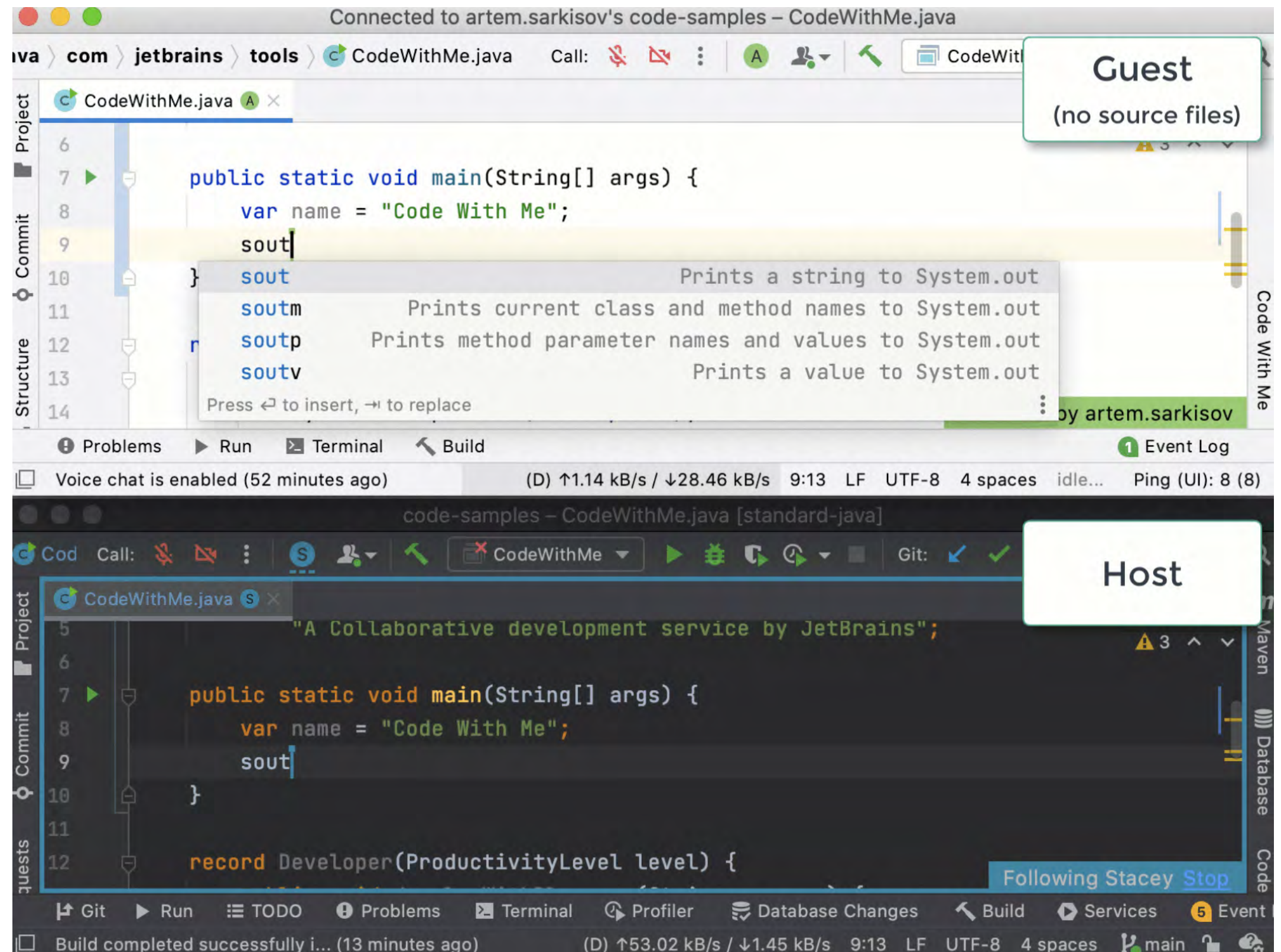
- Teams, Chats, Issues, Dashboards, Issue Boards, Packages, CI/CD Pipelines
- Code Reviews, Permissions, VCS, IDE Integration, Quick Actions, Top-Down Planning
- Meetings, Vacations, Business Trips, Documents, Office Maps, Blogs, and more...



## The collaborative development service

Code With Me is a new collaborative development and pair programming service. It enables you to share the currently opened project in your IDE with others, and work on it together in real time.

Learn more at [jetbrains.com/code-with-me](https://jetbrains.com/code-with-me)



# Products pricing & licensing

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We offer pricing and licensing options for everyone, from free and open-source projects to multinational enterprises.

## JetBrains Toolbox (desktop tools)

- Subscription-based licensing with monthly and yearly plans.
- [Continuity discounts](#): a special discount to reward our customers for timely and uninterrupted subscription coverage.
- [Perpetual fallback licenses](#): a license that allows you to use a specific version of software without an active subscription for it.

## JetBrains team tools

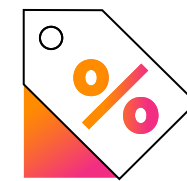
- Normal perpetual license.
- Upgrade subscription including 1 year of free upgrades.

## Expert level product support included with every license

For more details, please visit our website

- Pricing & special offers: [jetbrains.com/store](https://jetbrains.com/store)

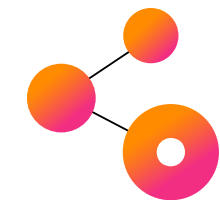
- Licensing model: [sales.jetbrains.com](https://sales.jetbrains.com)



Special pricing for individual developers and start-up companies.



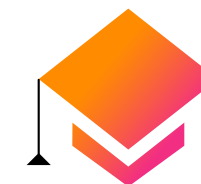
Special licensing schemes for enterprises.



Various plans for team tools, installed on your server or hosted by us.



Free licenses for qualified open-source projects.



Free licenses for students, instructors and educational institutions.

# Accomplishments

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- Customers
- Testimonials
- Awards and recognition

# Customers

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Many of the world's most dynamic companies and individuals find JetBrains tools make them more creative and effective.

**10M+**

users trust our tools

**96K**

join every month





# What customers say

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171,186 organizations purchased our tools to develop software in 2020. Take a look at what our customers are saying about us!

**NPS 64**  
Net Promoter Score

Highly loyal  
customers



Since starting to offer virtual deliveries in April, we've effectively relaunched the training side of the business and are now busier than ever. Space has been a huge part of that success. It's an umbrella that provides and integrates everything we need to deliver our products in a distributed manner.

Garth Gilmour  
Head of Learning  
Instil

Case studies:

[jetbrains.com/company/customers/experience.html](https://jetbrains.com/company/customers/experience.html)



WebStorm is like a Swiss Army knife. There is always a better tool for some particular case, but WebStorm is the only all-in-one solution with robust support for all cases you can face on a daily basis as a JavaScript developer. Plus, it's pretty, solid, feature-rich, and easy to use.

Ruslan Trachuk  
Chief Technology Officer  
Unidata

Testimonials:

[jetbrains.com/company/customers/testimonials.html](https://jetbrains.com/company/customers/testimonials.html)

# Awards and recognition

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JetBrains has won 90+ international industry awards since the turn of the century.



Best Innovation in Mobile Development 2020

Kotlin



General Development Tools (includes IDEs)

ReSharper



Performance, Profiling & Debugging Tools

dotTrace



Software Testing & Quality Assurance

dotCover



Installation, Setup & Deployment Tools

TeamCity



2020 Top Rated IDE Software

IntelliJ IDEA, PyCharm & WebStorm

# Partnership

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- Partnership program
- Technology partners
- Marketplace
- Community support



# Strong partnership program

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JetBrains works with other companies to provide access to our tools in every region across the globe.

Today we have over 140 resellers helping us reach developers worldwide. Our partners are trusted consultancies and training companies that are able to expand their businesses by offering expert professional services related to our tools.

Read [a story from one of our resellers](#) and learn more about [our partners](#).



# Technology partners

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At JetBrains, we integrate, collaborate, and co-market with many Technology Partners. These include some of the best names in the industry. We look to partner with companies that share our passion for making developers more productive.

Read more at

[jetbrains.com/company/partners-technology](https://jetbrains.com/company/partners-technology)

ACQUIA

Google

 heroku

 Microsoft

ORACLE®

 redhat.

 spring

 Typesafe

Pivotal™

# Marketplace

## The platform for third-party plugin vendors

We've created the next generation of the plugin repository by turning it into a marketplace for third-party plugin developers to sell their plugins while taking advantage of the licensing and billing solutions offered by JetBrains.

Learn more and apply: [plugins.jetbrains.com/marketplace](https://plugins.jetbrains.com/marketplace)

**AWAKENING**  
**MakeMeCoffee**  
★★★★★  
JetBrains s.r.o.

Buy from 9.99€ | Download  
Compatible with all of JetBrains' IDEs | See all versions

Overview | Features | Documentation

Remember all those times when you would say: "Good IDE, the only thing missing is a 'Make Coffee' button."? Well, today is a brew-tiful day for coffee addicts! At JetBrains, we give a Frappe about our customer's Irishs, with this very little (20Kb) plugin you can finally brew that Caramel-Skinny-Vanilla-de-caff-Macchiato right from the IDE's toolbar.

[more...](#)

**What's New** [Version History](#)

We listened a Latte to what you have been Espresso your feelings for, so to Cappuccino it all off: now MakeMeCoffee connects with all the coffee machines in the network and will Mocha a delicious beverage at the one closest to your location. No more rushing through the whole building looking for that caffeine fix. It's the American dream.

Sep 7, 2018  
Version 2018.2.8

**6 Toolbox Subscriptions**

Please use your JetBrains Account credentials to download.

Licensed to: **JetBrains Team**  
Fallback ver.: Multiple products  
Valid through: December 09, 2018

Following products included:

- AppCode
- CLion
- dotTrace
- GoLand
- ReSharper
- ReSharper C++

**MakeMeCoffee Plugin**  
Product page | Download

Licensed to: **JetBrains Team**  
Fallback ver.: 2017.2  
Valid through: December 09, 2018

# Close to the community

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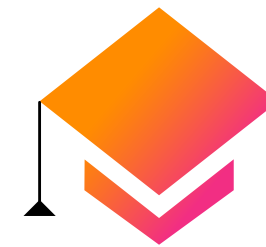
**1K+**

meetups / user groups  
get monthly support



**22K+**

open source projects  
supported with licenses



**1.3M+**

licenses for students and  
faculty members (over 2020)



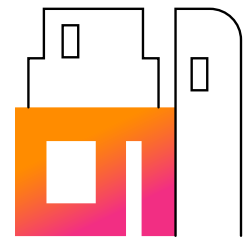
**10K+**

schools and universities received  
JetBrains classroom licenses  
(incl. TOP 100 Shanghai Ranking)

# Business year 2020 in review

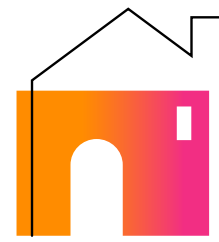
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- YoY revenue
- Top 6 countries
- Customers highlights
- Product downloads and usage



**175** **+22%**

new organizations  
become JetBrains customers every day



**2,862** **+24%**

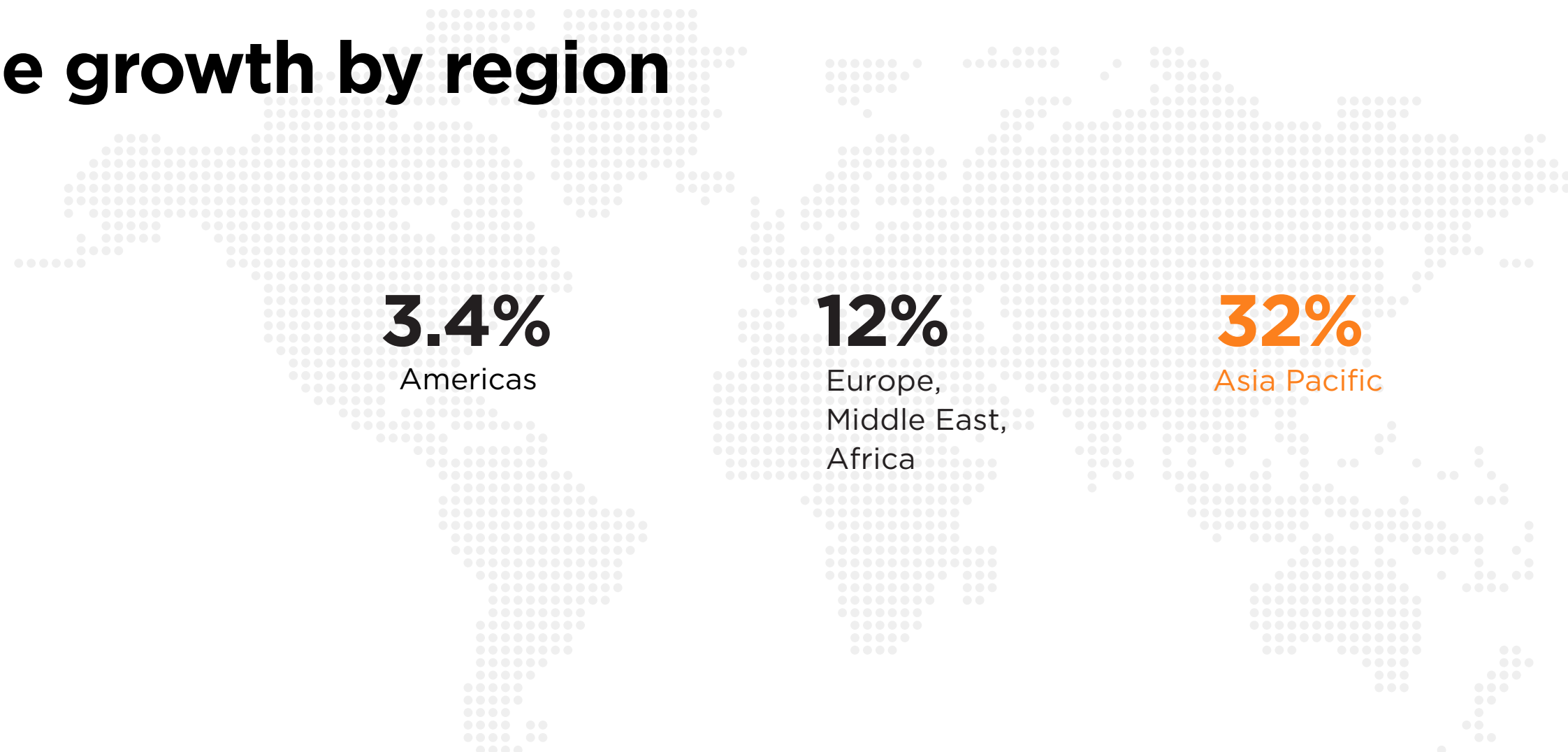
new individual users  
become JetBrains customers every day



**213**

countries and territories  
where subscriptions were sold

## YoY revenue growth by region



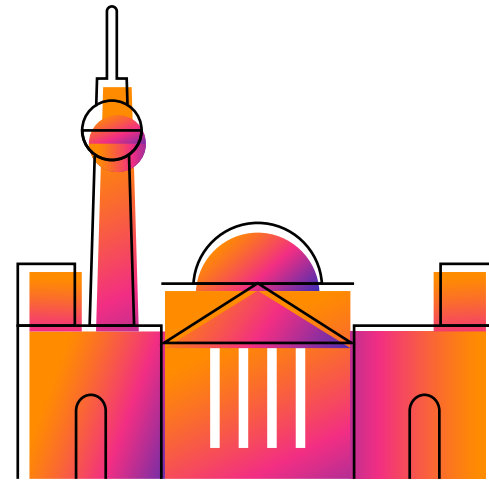
## Top 6 countries/regions by total active users



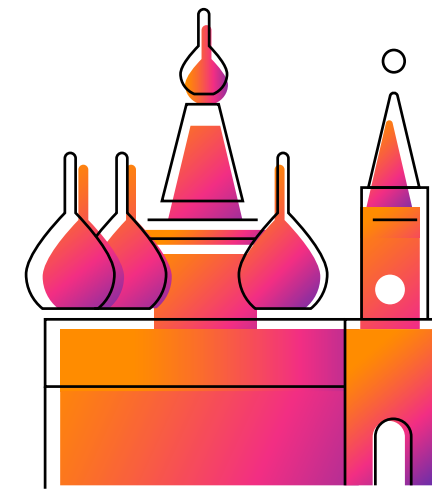
USA



China



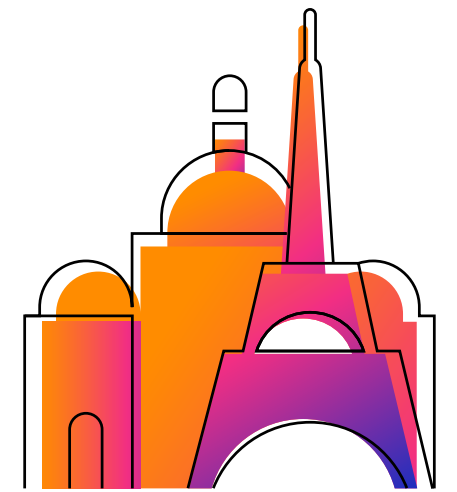
Germany



Russia

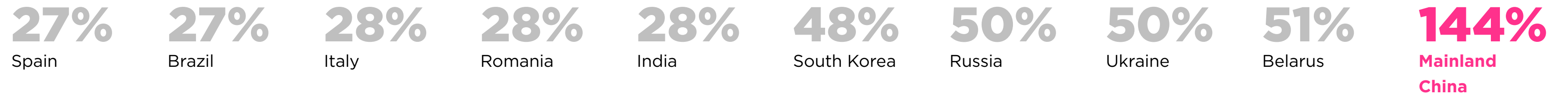


United Kingdom



France

## Top 10 countries/regions by paying customers YoY growth



# Customers highlights

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**2,195,000** **+24%**

total customers  
in 2020



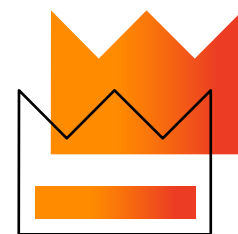
**557,000** **+23%**

paying customers  
in 2020



**10M+**

use and trust  
our tools



**99** Fortune 100 companies use our tools.

**88** Fortune Global 100 companies are our customers.

**96** Forbes Top 100 Digital Companies are our customers.



# Product downloads and usage



**28%<sup>+4%</sup>**

of all JetBrains Toolbox customers purchase 'All Products Pack'.



**58,400**

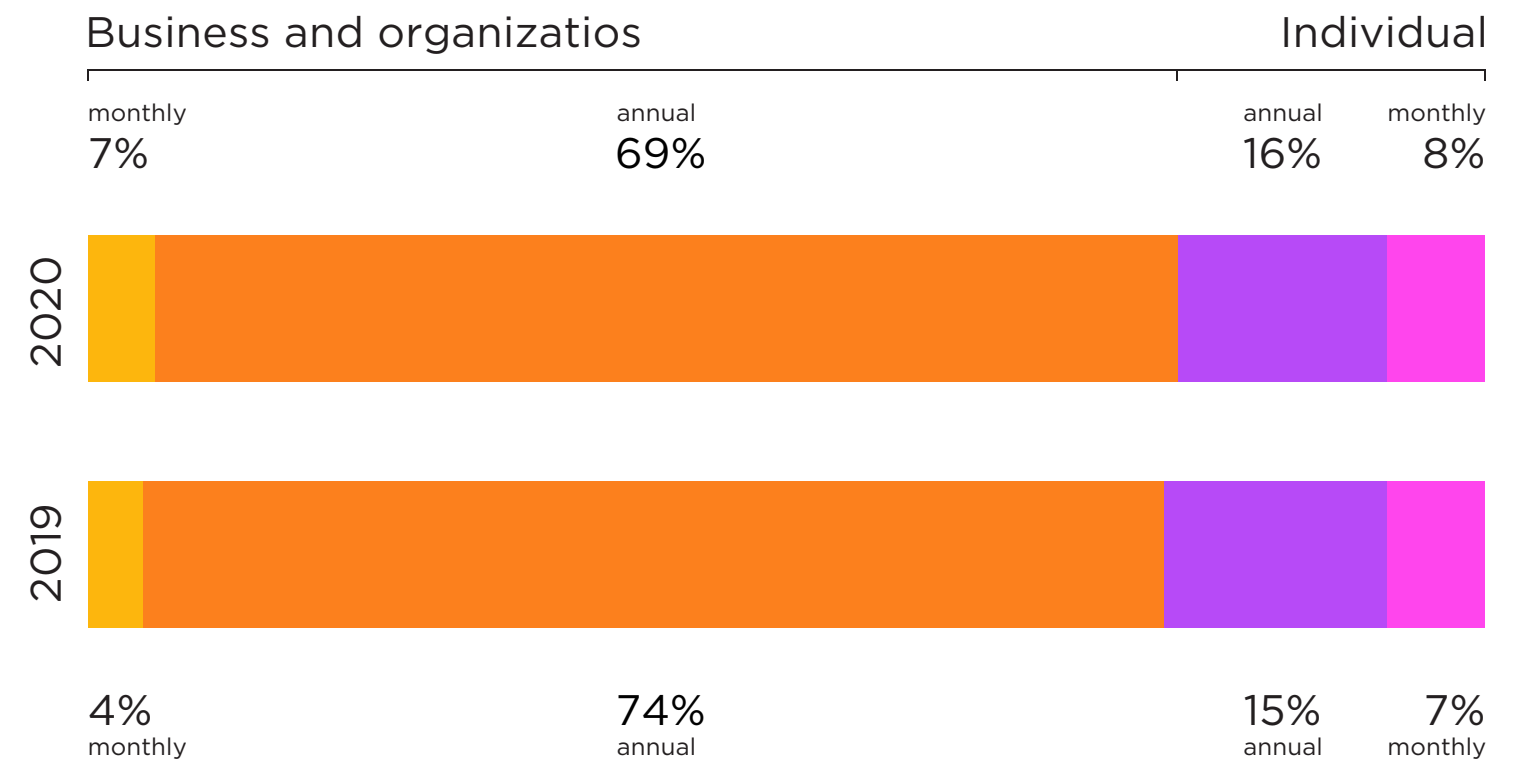
participants in the Early Access Program monthly.



**27.7%**

JetBrains All Products Pack experienced a YoY growth in purchases during 2020.

## JetBrains Toolbox subscriptions



Find more on our [JetBrains Annual Highlights 2020/21](#)

# Team



- Our team
- Employee demographics



Each person here at JetBrains has their own drive and ambitions. But when we asked what makes JetBrains special for them, the most frequently used terms to describe working here were Authenticity, Independence, Learning, and Fun.

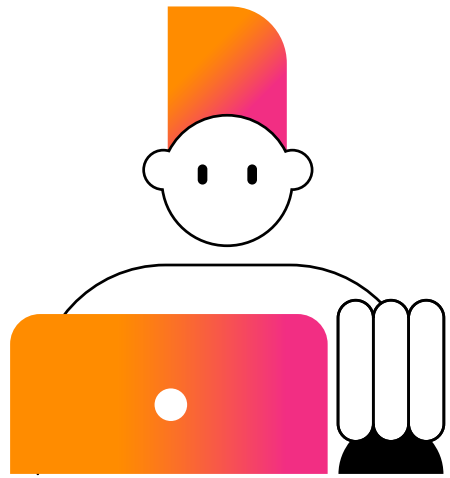
With 1500+ people, we still share the same vision and drive that motivated those several enthusiasts who started this company back in 2000 — helping developers change the world for the better.



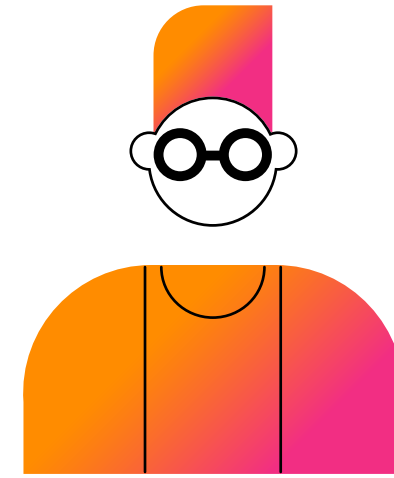
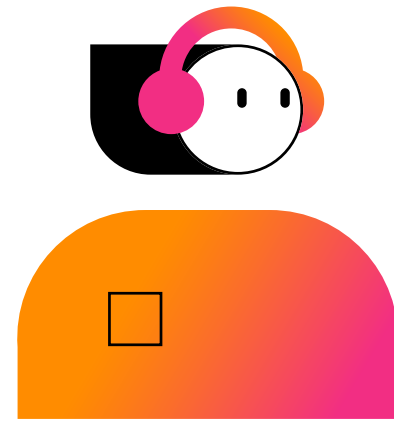


# Employee demographics

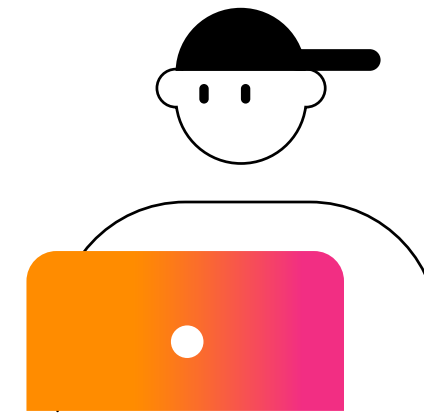
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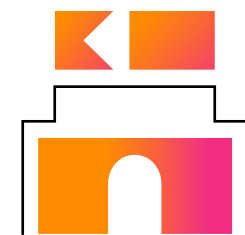
Youngest employee:  
18 years



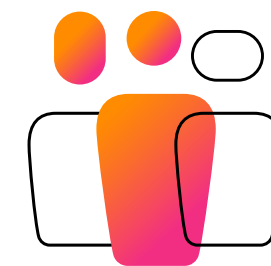
Average employee age:  
33 years



Oldest employee:  
73 years



**10** offices  
throughout the world



**1500 +**  
employees strong

# Offices



## Prague, Czech Republic

Headquarters  
EMEA and APAC sales

## St. Petersburg, Russia

R&D Center

## Munich, Germany

R&D Center

## Moscow, Russia

R&D Center

## Novosibirsk, Russia

R&D Center

## Amsterdam, Netherlands

R&D Center

## Boston, MA, USA

R&D Center

## Marlton, NJ, USA

US Sales East Coast

## Foster City, CA, USA

US Sales West Coast

## Shanghai, China

China Sales



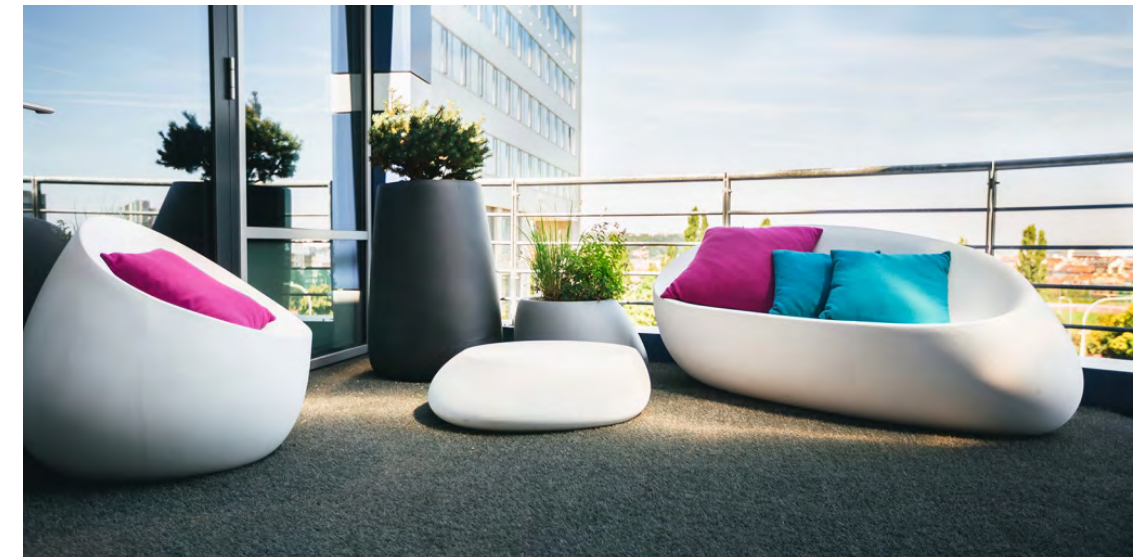
# Prague, Czech Republic

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JetBrains s.r.o.  
Headquarters,  
EMEA and APAC sales (since 2001)

Address:  
Kavčí Hory Office Park,  
Na hřebenech II 1718/10,  
Praha 4 - Nusle - 140 00,  
Czech Republic

[Learn more](#)





# St. Petersburg, Russia

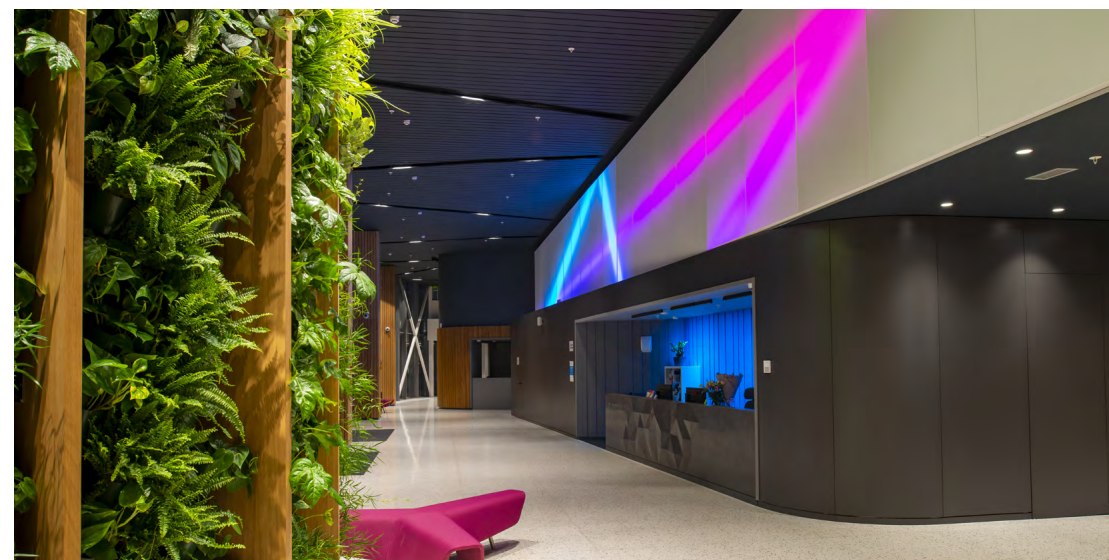
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IntelliJ Labs Co. Ltd.  
R&D Center Russia (since 2002)

JetBrains Co. Ltd.  
Russia & CIS Sales

Address:  
Primorskiy pr. 70, building 1  
197374, St.Petersburg, Russia

[Learn more](#)





# Munich, Germany

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JetBrains GmbH  
R&D Center (since 2011)

Address:  
Christoph-Rapparini-Bogen 23,  
80639 München, Germany

[Learn more](#)



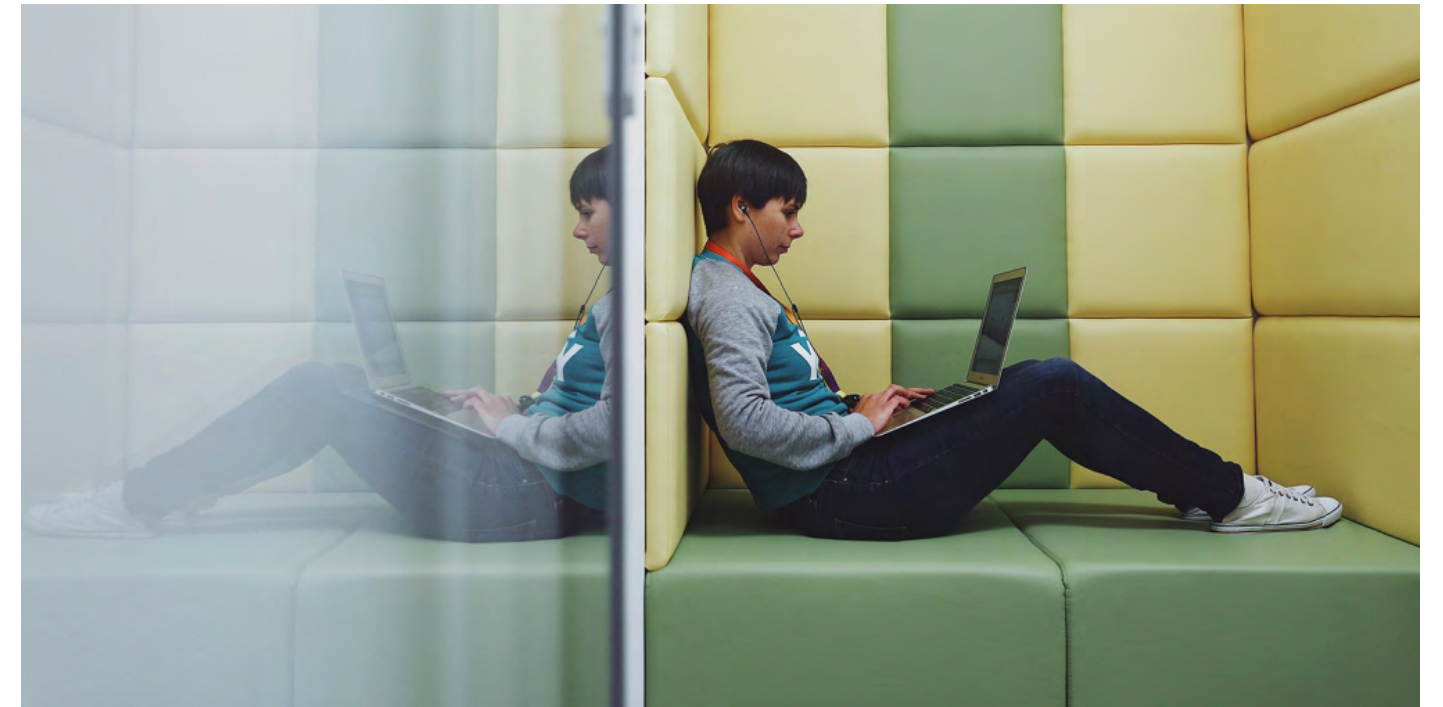


# Moscow, Russia

IntelliJ Labs Co. Ltd.  
R&D Center (since 2009)

Address:  
Lesnaya Ulitsa, 7  
Moscow 125196, Russia

[Learn more](#)





# Novosibirsk, Russia

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IntelliJ Labs Co. Ltd.  
R&D Center (since 2016)

Address:  
ul. Demakova, 30  
(Akademgorodok)  
Novosibirsk 630128, Russia

[Learn more](#)





# Amsterdam, The Netherlands

JetBrains N.V.  
R&D Center (since 2019)

Address:  
Huidekoperstraat 26-28,  
1017 ZM Amsterdam

[Learn more](#)





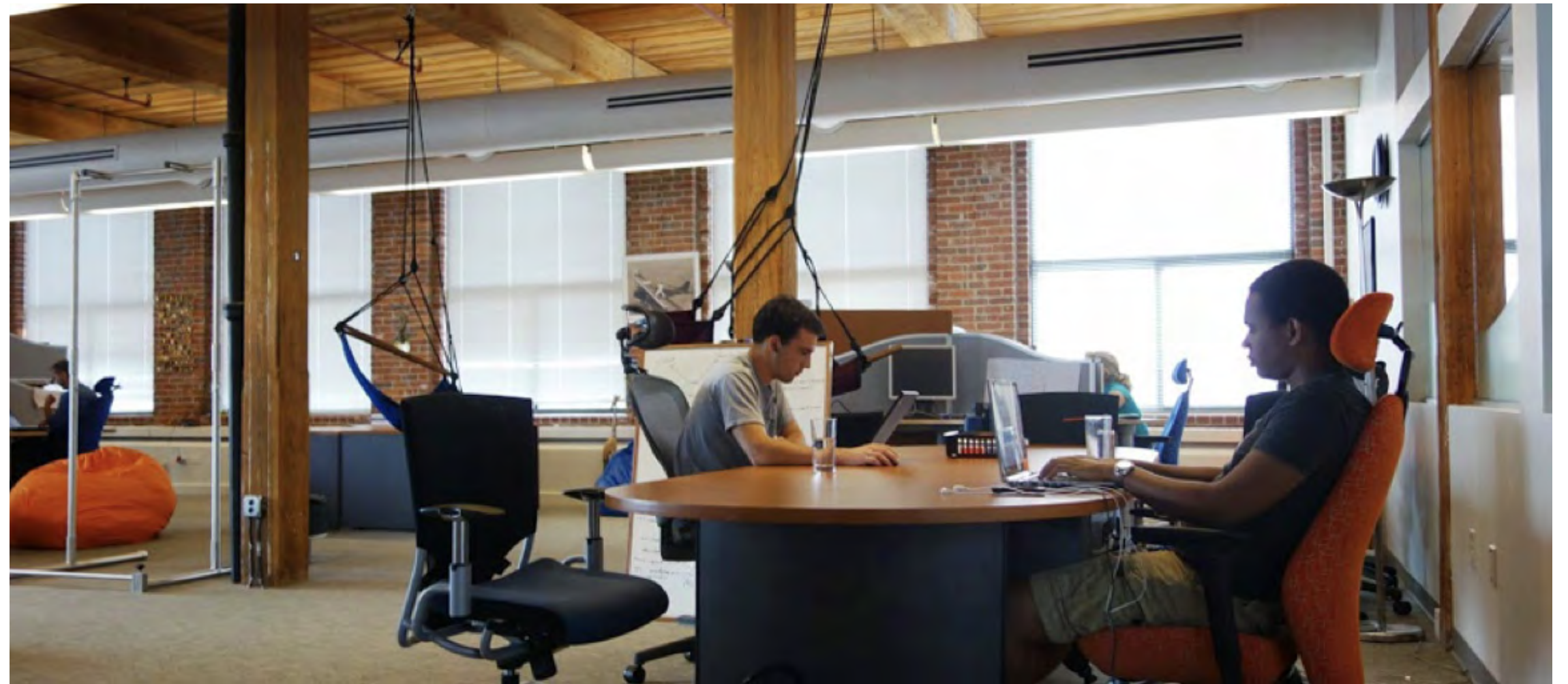
# Boston, MA, USA

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JetBrains, Inc.  
R&D Center (since 2003)

Address:  
2 Seaport Lane, suite 8C, 8th floor  
Seaport EAST  
Boston, MA 02210

[Learn more](#)





# Foster City, CA, USA

JetBrains Americas, Inc.  
West Coast  
US Sales West Coast (since 2015)  
[jetbrainsamericas.com](http://jetbrainsamericas.com)

Address:  
989 East Hillsdale Blvd. Suite 200  
Foster City, CA 94404





# Marlton, NJ, USA

JetBrains Americas, Inc.  
East Coast  
US Sales East Coast (since 2015)  
[jetbrainsamericas.com](http://jetbrainsamericas.com)

Address:  
10 Lake Center Dr #203  
Marlton, NJ 08053



# Contact us

---

## Headquarters and international sales

### **JetBrains s.r.o.**

Kavčí Hory Office Park,  
Na Hřebenech II 1718/10,  
Praha 4 - Nusle - 140 00,  
Czech Republic

Tel: +420 241 72 2501  
Fax: +420 241 722 540  
[sales@jetbrains.com](mailto:sales@jetbrains.com)

## Americas sales

[sales.us@jetbrains.com](mailto:sales.us@jetbrains.com)  
Tel.: +1 888 672 1076

### **East Coast**

10 Lake Center Dr #203, Marlton,  
NJ 08053, USA

Tel: +1 609 714 7883  
Fax: +1 866 838 6784

### **West Coast**

989 East Hillside Blvd. Suite 200, Foster City,  
CA 94404, USA

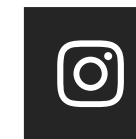
Tel: +1 650 413 9880  
Fax: +1 866 838 6784



[JetBrains.com](https://jetbrains.com)



[@JetBrains](https://twitter.com/JetBrains)



[Instagram.com/JetBrains](https://www.instagram.com/JetBrains)



[Facebook.com/JetBrains](https://www.facebook.com/JetBrains)



[Linkedin.com/company/JetBrains](https://www.linkedin.com/company/JetBrains)



[YouTube.com/user/JetBrainsTV](https://www.youtube.com/user/JetBrainsTV)

# Product catalog

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## IDEs

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## Toolbox App

A control panel for your tools and projects

## Code With Me

The collaborative development service



# Integrated Development Environments

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# IntelliJ IDEA

## The capable and ergonomic IDE for JVM

IntelliJ IDEA, JetBrains' flagship IDE, is designed for productive JVM development. With its in-depth understanding of languages and technologies and its ergonomic user interface, IntelliJ IDEA makes development an enjoyable experience!

Customers who adopt IntelliJ IDEA Ultimate stand to enjoy an ROI of 628%, as independently quantified by Forrester Consulting. Check out the details in their study of the [Total Economic Impact™ of IntelliJ IDEA study](#).

The free and open-source IntelliJ IDEA Community Edition and IntelliJ IDEA Edu, for learning and teaching programming, are also both available.

Learn more at [jetbrains.com/idea](https://jetbrains.com/idea)

The screenshot displays the IntelliJ IDEA interface. The main editor shows the `LanguageFolding.java` file with the following code snippet:

```

boolean quick) {
    FoldingDescriptor[] descriptors =
        buildFoldingDescriptorsNoPlaceholderCaching
            (builder, root, document, quick);
    for (FoldingDescriptor descriptor : descriptors) {
        descriptor.setPlaceholderText(descriptor
            .getPlaceholderText()); // cache placeholder
        text
    }
    return descriptors;
}

```

The `LanguageFolding` class is highlighted in the Project Structure view. Below the code editor, the 'Find' tool is open, showing the search results for 'Usages of descriptors in Project and Lib...':

- Variable**
  - descriptors
- Found usages 2 usages**
  - Value read 2 usages
    - intellij.platform.core 2 usages
      - com.intellij.lang.folding 2 usages
        - LanguageFolding 2 usages
          - buildFoldingDescriptors(FoldingBuilder, PsiElement, Document, boolean) 2 usages
            - 70 for (FoldingDescriptor descriptor : descriptors) {
            - 73 return descriptors;

The bottom status bar shows the current file is `LanguageFolding.java`, line 69, column 30, with a UTF-8 encoding and a master branch.

# PyCharm

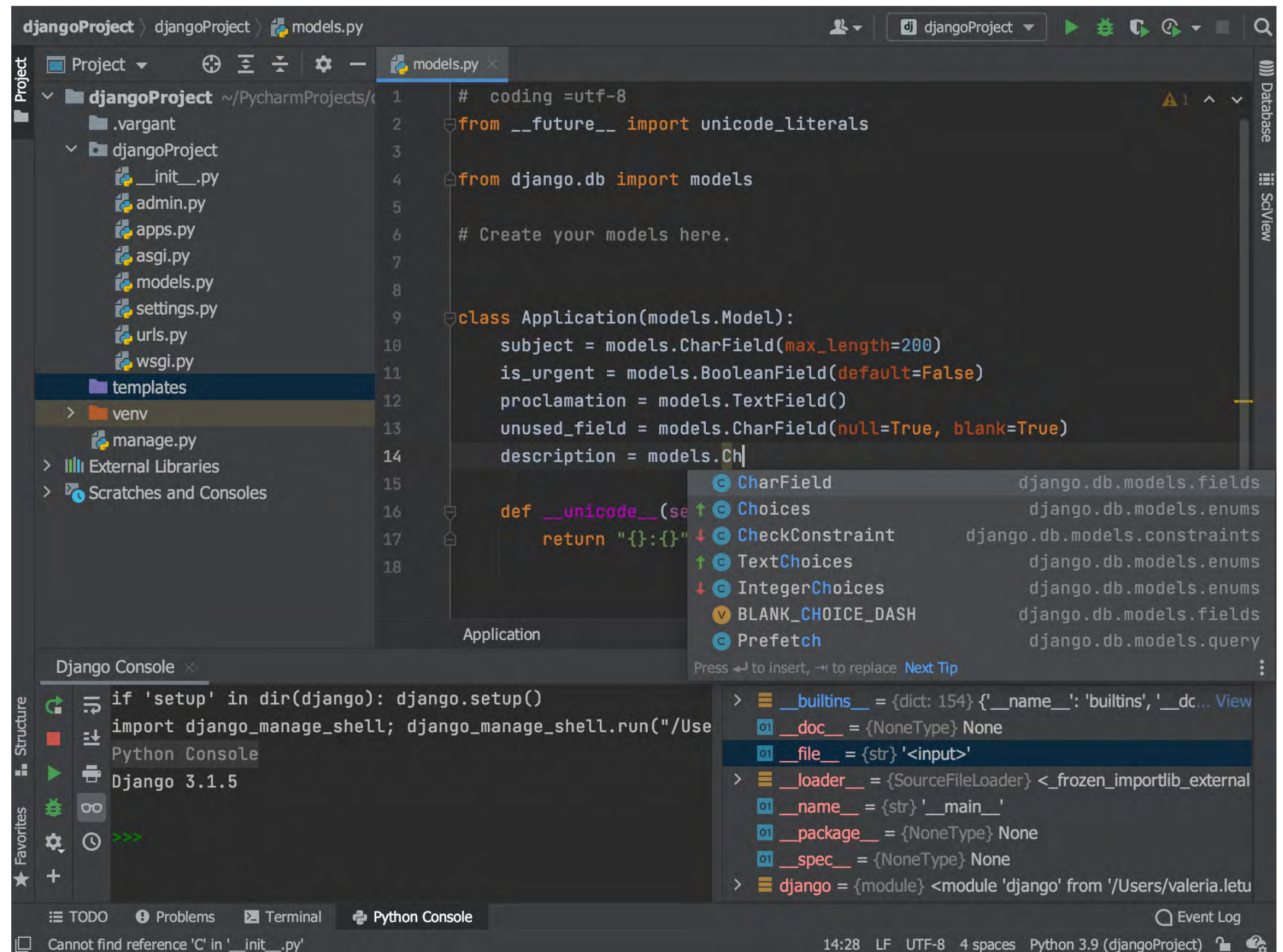
## The Python IDE for professional developers

PyCharm is a professional-level IDE for developing with the Python programming language. It comes with a powerful array of features to support the latest development practices, out of the box.

PyCharm Community Edition offers smart code completion, code inspections, automated code refactoring, an integrated debugger, and a test runner. It makes working with large projects easy.

PyCharm Professional Edition builds on those offerings with support for web development, working with databases, and data science tools. Django, Flask, JavaScript, Node.js, AngularJS, React, Vue, CSS/HTML, Jupyter Notebooks, and Anaconda are just some of the very latest technologies that are supported by PyCharm Professional.

Learn more at [jetbrains.com/pycharm](https://jetbrains.com/pycharm)



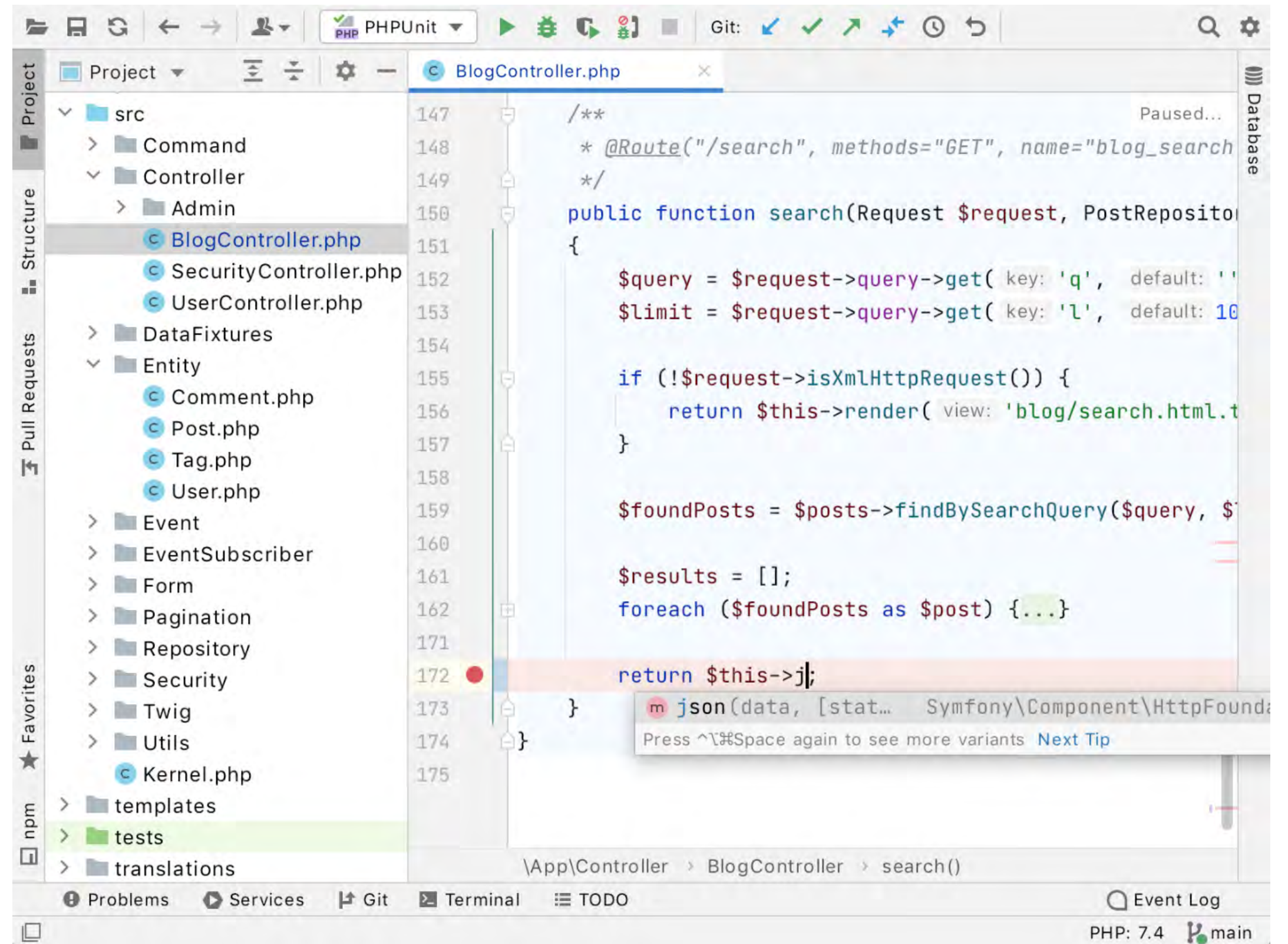


# PS PhpStorm

## The lightning-smart PHP IDE

This professional PHP IDE is recognized as a leader by Symfony, Laravel, Drupal, WordPress, and other major PHP communities. PhpStorm provides the best-in-class code completion, refactoring, code analysis, navigation, debugger, and unit testing support.

Learn more at  
[jetbrains.com/phpstorm](https://jetbrains.com/phpstorm)





## The intelligent Ruby and Rails IDE

RubyMine is an IDE that provides essential tools for Ruby and Ruby on Rails development out of the box.

It offers smart code completion and analysis, easy code navigation, safe automated refactorings, an interactive debugger, Git workflow support, and many other tools all integrated together in a highly customizable, productive, user-friendly environment.

Learn more at [jetbrains.com/ruby](https://jetbrains.com/ruby)

The screenshot displays the RubyMine IDE interface for a Rails application. The top toolbar shows the current project is 'rails\_app' and the active file is 'user\_test.rb'. The left sidebar shows the project structure with 'test' and 'models' folders expanded. The main editor shows the content of 'user\_test.rb' with a code completion popup for '@user' at line 15. The bottom status bar indicates 'Tests passed: 22 (43 minutes ago)'. The bottom right corner shows the system tray with '15:8 LF UTF-8 2 spaces master'.

```

rails_app > test > nr
All tests in models: sample_rails_app
Project: rails_app
Structure: test, channels, controllers, fixtures, helpers, integration, mailers, models, system
Commit: .keep, micropost_test.rb, relationship_test.rb, user_test.rb
Pull Requests:
Run: All tests in models: sample_rails_app
Console: TestUnit log
Test Results:
  ✓ Test Result 251 ms
    ✓ Relatic 163 ms
      ✓ tes 158 ms
      ✓ test_s 2 ms
      ✓ test_s 3 ms
    > ✓ Micropc 12 ms
    > ✓ UserTes 76 ms
Code:
14 test "name should be present" do
15   @user
16   @user
17   test "email should be present" do
18     @user.email = " "
19     assert_not @user.valid?
20   end
21 end
22 test "name should not be too long" do
23   @user.name = "a" * 51
24 end
  
```







## A cross-platform C/C++ IDE

CLion is a smart IDE for developing in C or C++ on Windows, Linux, and macOS. It's packed with an in-depth code analyzer, a range of code generation options, and the ability to navigate to anywhere in your code in one click. CLion understands modern C++ standards and provides preprocessor support. It also integrates with GDB/LLDB and a set of unit testing frameworks.

Learn more at [jetbrains.com/clion](https://jetbrains.com/clion)

The screenshot displays the CLion IDE interface for a project named 'clion-arkanoid'. The main editor window shows the 'GameState.h' header file with the following code:

```

14
15  QRect getField() const;
16
17  void draw(QPainter& painter) const;
18
19  int getScore() const;
20
21 private:
22  void processCollisions();
23
24 private:
25  QRect field_;
26
27  Ball ball_;
28  std::vector<Brick> bricks_;
29  Brick paddle_;
30
31  int score_;
32 };
33

```

The 'Structure' view on the left shows the class hierarchy for 'GameState':

- GameState
  - GameState(int, int)
  - calc(int) : void
  - movePaddle(int) : void
  - getField() const : QRect
  - draw(QPainter &) const : void
  - getScore() const : int
  - processCollisions() : void
  - field\_ : QRect
  - ball\_ : Ball
  - bricks\_ : vector<Brick>
  - paddle\_ : Brick
  - score\_ : int

The 'Find' view at the bottom shows the search results for 'score\_' in 'All Places':

- Field
  - score\_
- Found usages 3 usages
  - Value read 2 usages
    - clion-arkanoid 2 usages
      - GameState.cpp 2 usages
        - GameState 1 usage
          - score\_(0) {

The IDE interface includes a top toolbar with icons for navigation, search, and debugging. The bottom status bar shows various tool windows like 'Find', 'TODO', 'CMake', 'Terminal', 'Version Control', and 'Event Log'.



## The smart IDE for iOS/macOS development

AppCode is your intelligent assistant for building apps for Apple devices in Swift, Objective-C, C or C++. Use it to save time while you code, refactor, debug, and test. Rely on its smart code analysis and seamless integration with a wide range of testing frameworks, databases, Reveal, and CocoaPods.

Learn more at  
[jetbrains.com/objc](https://jetbrains.com/objc)

The screenshot displays the AppCode IDE interface. The main editor shows a Swift file named `SIAdjacentRectangles.m` with the following code snippet:

```
NSMutableArray *res = [NSMutableArray array];
[rectValues_ enumerateObjectsUsingBlock:^(id obj, NSUInteger idx, BOOL stop) {
    // ...
}];
```

A "Refactor This" context menu is open over the `rectValues_` variable, listing various refactoring options:

- 1. Rename... (⌘F6)
- 2. Change Signature... (⇧F6)
- 3. Move... (F6)
- 4. Copy... (F5)
- 5. Variable... (⌘V)
- 6. Constant... (⌘C)
- 7. Instance Variable... (⌘F)
- 8. Property... (⌘E)
- 9. Parameter... (⌘P)
- 0. Define... (⌘D)
- Typedef... (⌘K)
- Method... (⌘M)
- Block Parameter...
- Superclass...
- Subclass...
- Protocol...
- Category...
- Inline... (⌘N)
- Pull Members Up...
- Push Members Down...

At the bottom, a "Find" panel shows the search results for "Usages of cRect in Project and Frameworks":

- Local variable**
  - cRect
- Found usages 5 usages**
  - Qualifier 2 usages
    - SIAdjacentRectangles.m 2 usages
      - SIAdjacentRectangles 2 usages
        - rectanglesInDirection:
          - 124 p = CGPointMake(cRect.origin.x+cRect.size.width, cRect.origin.y);
          - 129 p = CGPointMake(cRect.origin.x, cRect.origin.y+cRect.size.height);
- Value read 3 usages





## The SQL IDE

This smart SQL editor and advanced database client is tailored to meet the specific needs of professional database developers. It delivers a range of database tools neatly packed together and running atop the IntelliJ Platform.

Learn more at [jetbrains.com/datagrip](https://jetbrains.com/datagrip)

The screenshot displays the DataGrip SQL IDE interface. The top-left pane shows a database tree for PostgreSQL 12 (guest) with schemas pg\_catalog and public, and tables actor, actor\_1, and address. The top-right pane shows a SQL query editor with the following query:

```
SELECT *
FROM actor
JOIN film_actor ON actor.actor_id = film_actor.actor_id
JOIN film ON film_actor.film_id = film.film_id
JOIN film_category ON film.film_id = film_category.film_id;
```

The bottom-left pane shows a Services tree with MySQL, MySQL Cloud New, and PostgreSQL 12. The bottom-right pane shows the Output window displaying the results of the query for the actor table in the guest.public schema. The results are as follows:

actor_id	first_name	last_name
16	SANDRA	PECK
17	SISSY	SOBIESKI
18	JAMES	HACKMAN
19	MILLA	PECK
20	JUDY	DEAN
21	BURT	DUKAKIS
22	VAL	BOLGER
23	TOM	MCKELLEN
24	GOLDIE	BRODY
25	JOHNNY	CAGE



## More than just a Go IDE

An IDE that makes it easy to read, write, and change more than just Go code, GoLand is fully equipped to work with web, frontend, backend, and databases.

GoLand offers a host of smart features, such as intelligent code completion, safe refactorings with one-step undo, a powerful built-in debugger, and on-the-fly error detection with quick-fixes.

Thanks to GoLand, all Go developers, from novices to experienced professionals, can create fast, efficient, and reliable code.

Learn more at  
[jetbrains.com/go](https://jetbrains.com/go)

The screenshot displays the GoLand IDE interface. The top toolbar shows the command `go test k8s.io/api`. The left sidebar shows the project structure for `k8s.io`, with the file `namespacedname.go` open in the editor. The code in the editor is as follows:

```

1 package types
2
3 import (
4     "fmt"
5 )
6
7 type NamespacedName struct {
8     Namespace
9     Name
10 }
11
12 const (
13     Separator
14 )
15
16
17 func (n NamespacedName) String() string {
18     return fmt.Sprintf(format: "%s%c%s", n.Namespace, Separator
19 }
20

```

A tooltip is visible over the `NamespacedName` struct, indicating that it implements three interfaces:

- `Stringer` in `fmt/print.go`
- `Var` in `expvar/expvar.go`
- `stringer` in `runtime/error.go`

The bottom panel shows the test results for `go test k8s.io/api`, indicating that all tests passed:

```

Run: go test k8s.io/api x
Tests passed: 2 of 2 tests - 1 s 350 ms
Test Results
  TestFailRoundTrip 0 ms
  TestRoundTripExt 1 s 350 ms
<4 go setup calls>
=== RUN TestRoundTripExternalTypes
--- PASS: TestRoundTripExternalTypes (1.35s)
    roundtrip.go:166: round tripping admission.k8s.io/v1beta1, Kind=AdmissionReview
    roundtrip.go:254: round tripping external type admission.k8s.io/v1beta1, Kind=AdmissionReview

```

The bottom status bar shows the current state: `Tests passed: 2 (33 minutes ago)`, `7:15`, `LF`, `UTF-8`, `Git: master`, and an `Event Log` icon.

# .NET & Visual Studio



# R# ReSharper

## The leading Visual Studio productivity tool

ReSharper is a renowned productivity tool that turns Microsoft Visual Studio into a much better IDE. Both individual .NET developers and teams rely on ReSharper to write and maintain code in a more manageable and enjoyable way, adopt the best coding practices, and deliver higher-quality applications faster.

Learn more at  
[jetbrains.com/resharper](https://jetbrains.com/resharper)

The screenshot displays the Visual Studio IDE with the ReSharper Refactor menu open over the `TransformToRowCount` method. The menu options include:

- Refactor This
- Change Signature (Ctrl+F6)
- Inline Method (Ctrl+Alt+N)
- Move To Another Type (F6)
- Rename (F2)
- Safe Delete (Alt+Del)
- Extract Class
- Extract Members to Partial
- Convert Static Method To Extension
- Make Method Non-Static
- Transform Parameters

The background code shows the following C# snippet:

```

25     ///</summary>
26     public static ICriteria TransformToRowCount(ICriteria criteria)
27     {
28         return TransformToRowCount((Criteria criteria) => criteria);
29     }
30
31     private static CriteriaImpl TransformToRowCount(CriteriaImpl criteria)
32     {
33         criteria.ClearOrders();
34         criteria.SetFirstResult(0).SetMaxResults(10);
35         return criteria;
36     }
37
38     /// <summary>
39     /// Creates an exact clone of the criteria
40     /// </summary>
41     private static CriteriaImpl Clone(CriteriaImpl criteria)
  
```

Below the code editor, the Find Results window shows the following information:

- Find Results - Usages of 'TransformToRowCount(...)' and others
- Usages of 'TransformToRowCount(...)' and others
- Group by: Project Structure
- NHibernate.CriteriaTransformer.TransformToRowCount(ICriteria criteria):ICriteria NHibernate .NETStandard,Version=v2.0
- Found 8 usages in solution
- <NHibernate.Test> (8 items)
  - Async (4 items)
    - Criteria (4 items)
      - CriteriaQueryTest.cs (4 items)
        - (467,43) ICriteria cloned = CriteriaTransformer.TransformToRowCount(c);
        - (2672,46) ICriteria rowCount = CriteriaTransformer.TransformToRowCount(criteria);
        - (2693,51) ICriteria countCriteria = CriteriaTransformer.TransformToRowCount(crit);
        - (3032,41) var countExec = CriteriaTransformer.TransformToRowCount(ec);

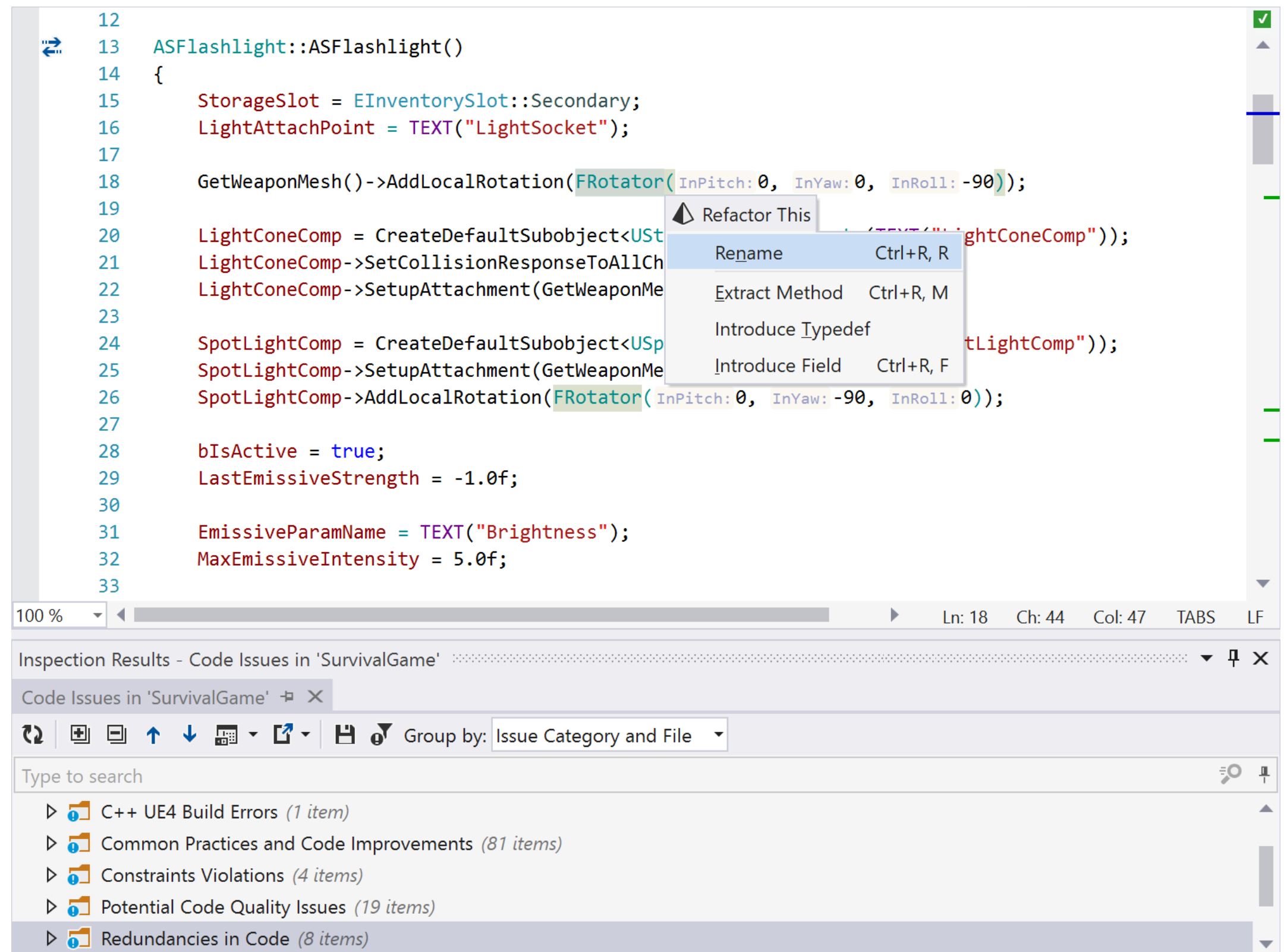
# ReSharper C++

## The Visual Studio extension for C++ developers

ReSharper C++ is a productivity extension for developing in C and C++ that fully integrates with Microsoft Visual Studio. It helps developers create efficient and correct code in modern C++ by providing safe refactorings, fast navigation, and code analysis for the trickiest aspects of the language. It offers support for HLSL shaders, the C++/CLI specifications, and Unreal Engine code.

Learn more at

[jetbrains.com/resharper-cpp](https://jetbrains.com/resharper-cpp)



```
12
13 ASFlashlight::ASFlashlight()
14 {
15     StorageSlot = EInventorySlot::Secondary;
16     LightAttachPoint = TEXT("LightSocket");
17
18     GetWeaponMesh()->AddLocalRotation(FRotator(InPitch: 0, InYaw: 0, InRoll: -90));
19
20     LightConeComp = CreateDefaultSubobject<USp... (TEXT("LightConeComp"));
21     LightConeComp->SetCollisionResponseToAllCh...
22     LightConeComp->SetupAttachment(GetWeaponMe...
23
24     SpotLightComp = CreateDefaultSubobject<USp... (TEXT("SpotLightComp"));
25     SpotLightComp->SetupAttachment(GetWeaponMe...
26     SpotLightComp->AddLocalRotation(FRotator(InPitch: 0, InYaw: -90, InRoll: 0));
27
28     bIsActive = true;
29     LastEmissiveStrength = -1.0f;
30
31     EmissiveParamName = TEXT("Brightness");
32     MaxEmissiveIntensity = 5.0f;
33
```

100 % | Ln: 18 Ch: 44 Col: 47 TABS LF

Inspection Results - Code Issues in 'SurvivalGame'

Code Issues in 'SurvivalGame'

Group by: Issue Category and File

Type to search

- ▶ C++ UE4 Build Errors (1 item)
- ▶ Common Practices and Code Improvements (81 items)
- ▶ Constraints Violations (4 items)
- ▶ Potential Code Quality Issues (19 items)
- ▶ Redundancies in Code (8 items)



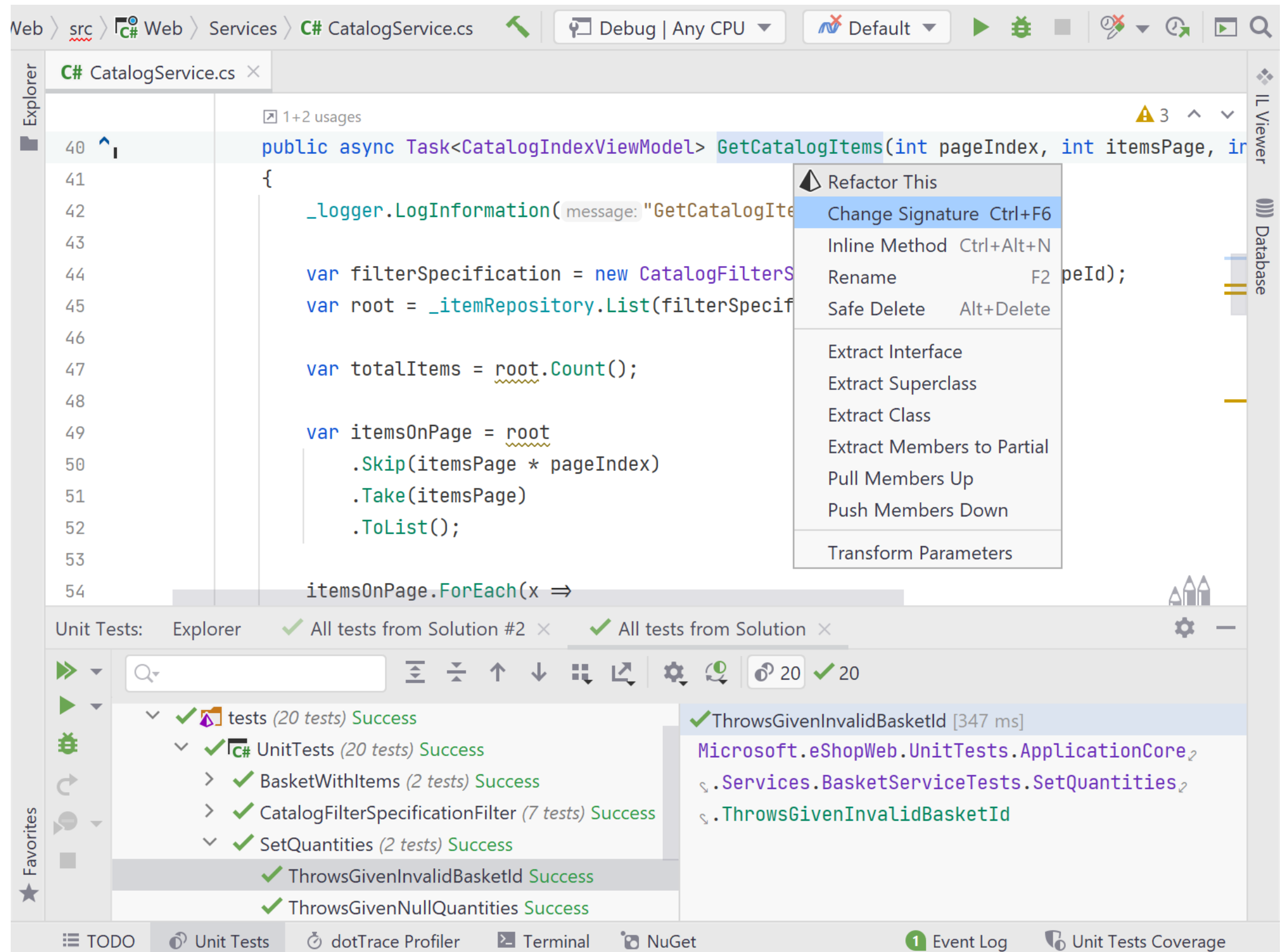


## A fast & powerful, cross-platform .NET IDE

Rider helps you develop .NET, .NET Core, .NET Framework, ASP.NET, Xamarin, or Unity applications on Windows, Mac, and Linux. It provides outstanding editing support and code insight for languages used in .NET development including C#, F#, Razor/Blazor syntax, JavaScript, TypeScript, XAML, HTML, CSS, and SQL.

Rider includes 2500+ live code inspections, hundreds of context actions and refactorings provided by ReSharper, all combined with IntelliJ Platform's robust IDE feature set. Although it is heavily loaded with features, Rider is fast and responsive.

Learn more at  
[jetbrains.com/rider](https://jetbrains.com/rider)



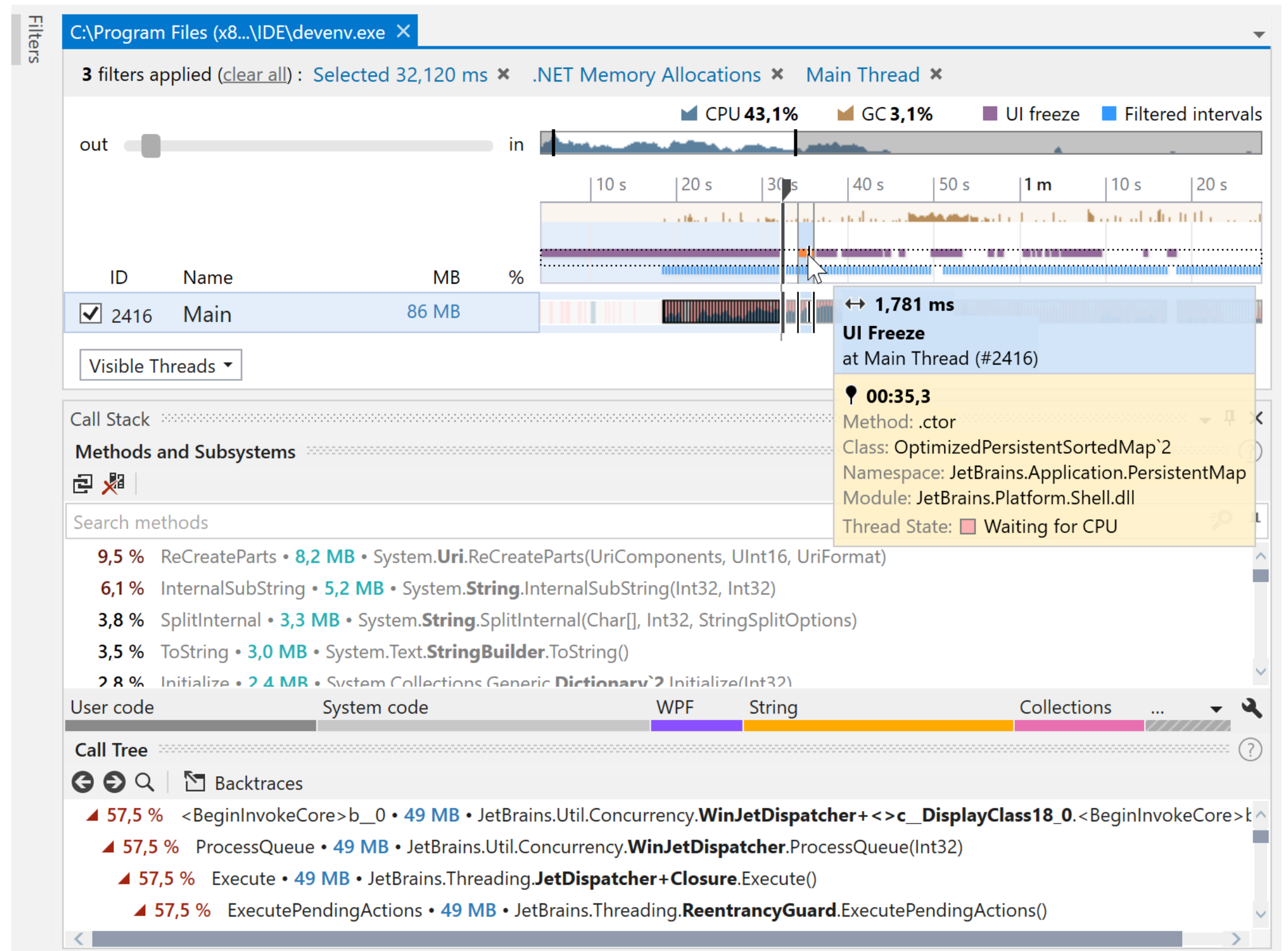
# DT dotTrace

## A .NET performance profiler

Quickly finds performance bottlenecks so you can optimize your .NET applications. dotTrace provides great ways to visualize information to make profiling results easier to act upon.

Learn more at

[jetbrains.com/profiler](https://jetbrains.com/profiler)





## A .NET unit test runner and code coverage tool

With dotCover, you always know to what extent your code is covered with unit tests. dotCover works right in Visual Studio and is Continuous Integration ready.

Learn more at [jetbrains.com/dotcover](https://jetbrains.com/dotcover)

The screenshot shows the dotCover interface in Visual Studio. The main editor displays C# code with a green vertical bar on the left side of the code lines, indicating which parts of the code are covered by unit tests. A tooltip points to a line of code that is 'Statement uncovered by tests'. The bottom of the screen shows the 'Unit Test Sessions' and 'Unit Test Coverage' panels.

**Unit Test Sessions - All tests from Solution**

Test Session	Status
IntegrationTests (1 test)	Success
GetById (1 test)	Success
GetsExistingOrder	Success
UnitTests (20 tests)	Success
BasketWithItems (2 tests)	Success
CatalogFilterSpecificationFilter (7 tests)	Success
SetQuantities (2 tests)	Success
Total (3 tests)	Success
Total (4 tests)	Success
TransferBasket (2 tests)	Success

**Unit Test Coverage**

Symbol	Coverage (%)	Uncovered/Total
src	16%	2473/2935
tests	95%	14/287
FunctionalTests	94%	8/127
Microsoft.eShopWeb.Fi	93%	4/54
CustomWebRazorPa	88%	4/32
ConfigureWebHc	88%	4/32
(IServiceColle	86%	4/29
own coverage	100%	0/3
HomePageOnGet	100%	0/11
OrderIndexOnGet	100%	0/11
Microsoft.eShopWeb.Fi	95%	4/73

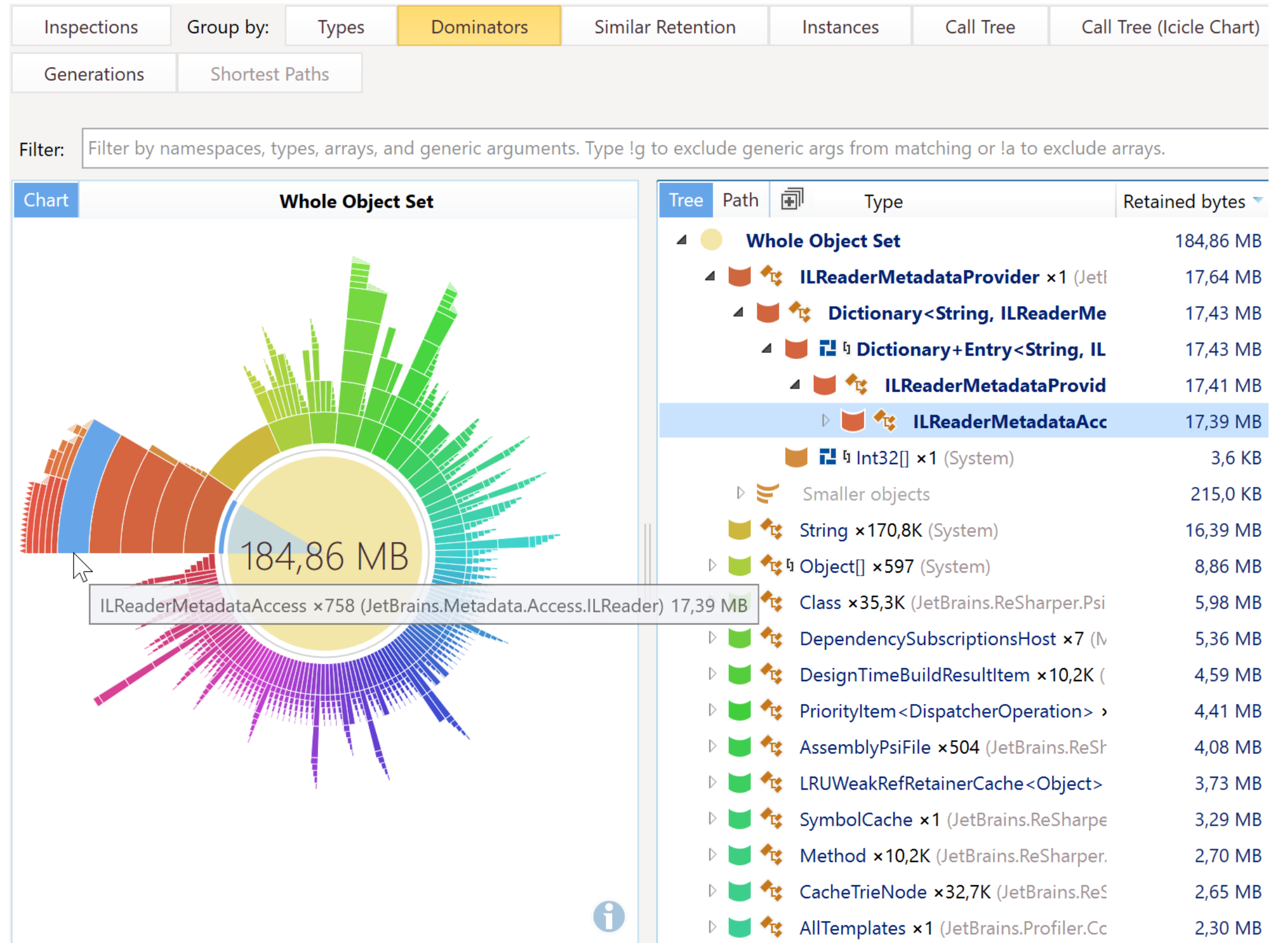





## A .NET memory profiler

For optimizing memory usage in your .NET applications, detecting memory leaks, and combating all types of memory issues.

Learn more at [jetbrains.com/dotmemory](https://jetbrains.com/dotmemory)







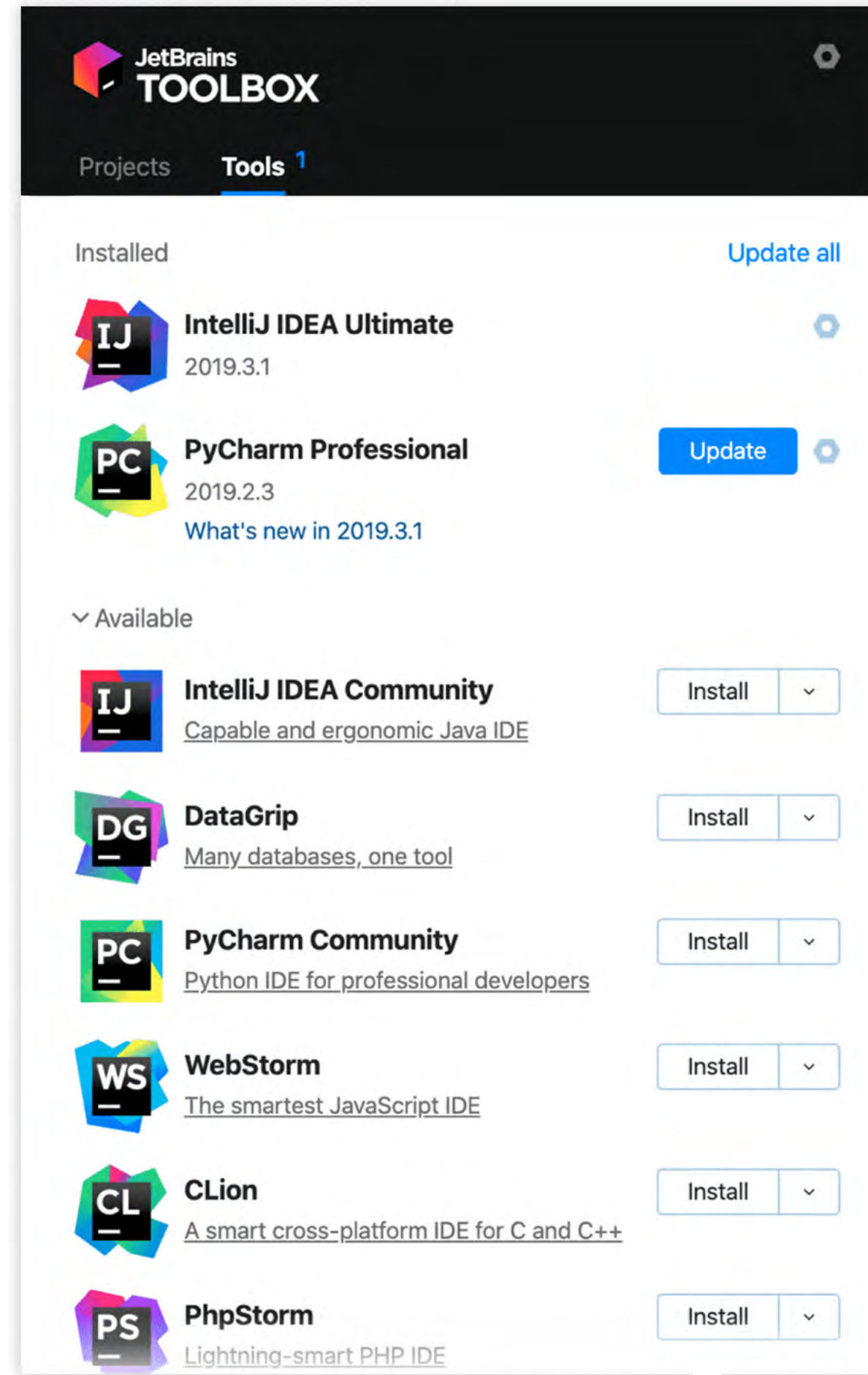
# Toolbox App

A free app for managing JetBrains tools and projects the smart way

Toolbox App is a tiny application that provides effortless access to the developers' tools and projects across all JetBrains IDEs.

It simplifies installations, updates, and rollbacks to previous versions. An autoupdate option is also available for each installed IDE.

Learn more at [jetbrains.com/toolbox-app](https://jetbrains.com/toolbox-app)







## The collaborative development service

Code With Me is a new collaborative development and pair programming service. It enables you to share the currently opened project in your IDE with others, and work on it together in real time.

Learn more at [jetbrains.com/code-with-me](https://jetbrains.com/code-with-me)

The screenshot displays two instances of the JetBrains IDE connected via Code With Me. The top instance is labeled 'Guest (no source files)' and shows a Java file named 'CodeWithMe.java' with the following code:

```

public static void main(String[] args) {
    var name = "Code With Me";
    sout
  
```

A tooltip is visible over the 'sout' line, listing several options: 'sout', 'soutm', 'soutp', and 'soutv', each with a description of what it prints to System.out. The bottom instance is labeled 'Host' and shows the same code, but with the 'sout' line highlighted in blue. The host's IDE interface includes various toolbars and a status bar at the bottom indicating 'Build completed successfully i... (13 minutes ago)'. The status bar also shows network activity: '(D) ↑53.02 kB/s / ↓1.45 kB/s' and system information: '9:13 LF UTF-8 4 spaces main'.



# Team tools





## The integrated team environment

Space is an all-in-one extensible team collaboration solution that covers software development, project and team management, and communications.

It ensures organizational transparency with the team directory; efficient communication with chats, documents, blogs, meetings, and calendars, as well as effective project management with checklists, an issue tracker, and issue boards. It also covers the software development pipeline with Git hosting, code reviews, automation, CI/CD pipelines, and package management. Space is flexible, extensible, and customizable to the needs of your team and your organization. Start using it today with the free cloud plan for unlimited users.

Learn more and sign up for free [jetbrains.com/space](https://jetbrains.com/space)

The screenshot shows the Space interface for Galactic Travels Inc. with the following callouts:

- Check the availability of your teammates**: Points to the calendar view showing team members and their status.
- Schedule meetings and add absences**: Points to the calendar view showing scheduled meetings and absences.
- View commits, browse files, check a repository**: Points to the Favorite Projects section.
- Check the code reviews assigned to you**: Points to the Code Reviews section.
- Never miss an important update with the company blog**: Points to the Recent Blog Posts section.

- Teams
- Chats
- Issues
- Dashboards
- Issue Boards
- Packages
- CI/CD Pipelines
- Code Reviews
- Permissions
- VCS
- IDE Integration
- Quick Actions
- Top-Down Planning
- Meetings
- Vacations
- Business Trips
- Documents
- Office Maps
- Blogs
- and more...



## Powerful CI and CD out of the box

This Continuous Integration and Deployment server provides out-of-the-box test intelligence, real-time reporting on build problems, and unmatched scalability. Install and deploy TeamCity and start building your DevOps pipelines in minutes.

A standalone version is available.

Learn more at [jetbrains.com/teamcity](https://jetbrains.com/teamcity)

The screenshot displays the TeamCity web interface for a specific build. At the top, navigation links include Projects, Changes, Agents (1047), Build Queue (1974), Architect, and Administration. The current build is identified as #3243, completed on 28 Nov at 02:03. It shows 1095 tests passed and 117 ignored, with a successful build chain. A small bar chart on the right indicates the build's history over time, with a focus on 20 Nov.

Below the build summary, there are tabs for Overview, Changes (6), Tests, Build Log, Dependencies (selected), and More. Under the Dependencies tab, there are sub-tabs for Timeline, List, and Chain. A section titled "Select builds to view details" contains a dependency graph. This graph shows a sequence of build steps: Matrix React UI Build, Win32-tfs, Win32-VSS, Win32-Registry, dotnet-listeners, and Win32-PS all depend on BuildDist Core. BuildDist Core then depends on Prepare Maven Artifacts. Prepare Maven Artifacts has multiple dependencies on various Perfmon Integration tests (eBSD), (T... aris), (c OS), (inux), and (dows). Finally, all these Perfmon Integration tests depend on the final step, All Perfmon Integrati... Tests.



## The project management tool designed for agile teams

A project management tool that can be adapted to your processes to help you deliver great products. Track projects and tasks, use agile boards, plan sprints and releases, keep a knowledge base, work with reports and dashboards, create workflows that follow your business processes. Never force your process to fit the limits of a tool again.

YouTrack has the flexibility to adapt not just to every team, but to every team member. From personal tasks to company-wide portfolios of projects, YouTrack can handle it all with ease and elegance.

Learn more at [jetbrains.com/youtrack](https://jetbrains.com/youtrack)

The screenshot displays the JetBrains YouTrack interface. At the top, the browser title is 'project: Demo | 21 issues | - JetBrains YouTrack'. The navigation bar includes 'Issues', 'Dashboards', 'Agile Boards', 'Reports', 'Projects', 'Knowledge Base', and a 'New Issue' button. The main content area shows a list of 21 issues for the 'Demo' project, with columns for 'Issue summary', 'Priority', and 'State'. The 'Launch YouTrack' issue is selected and highlighted in blue. A sidebar on the left contains 'DRAFTS', 'SAVED SEARCHES', and filters for 'Assigned to me' (13), 'Commented by me' (5), and 'Reported by me' (33). A blue tips panel is overlaid on the sidebar, providing instructions on how to use the search and filter features. On the right, a detailed view of the 'Launch YouTrack' issue is shown, including a 'Congratulations!' message and a list of activities performed on the issue.

Issue summary	Priority
Reactions	Normal
Text styling options	Normal
Create and edit issues	Major
Launch YouTrack	Show-stopper
Create a demo project	Normal
Stay informed	Critical
Monitor your progress	Normal
First steps for system administrators	Normal
Import issues and articles	Major
Manage user access	Major
Manage login options	Normal
First steps for project administrators	Normal
Create a project	Critical
Customize issue fields in your project	Normal
Manage your project team	Major
Manage assignees	Normal
First steps for new users	Normal
Attach files	Normal
Add tags	Normal
Search for issues	Major
Configure time tracking	Normal

**Congratulations!**  
This is the first issue in your demo project. This issue represents the effort that went into launching the app you're working with right now. You may have already noticed that this issue is assigned the **Fixed** state. As the application is already up and running, there's nothing more for you to do. However, there are lots of other issues in this project that are assigned the **Open** state and are waiting for your input. To continue along your journey, click through to [Create a demo project](#).

**Activity stream:**  
3 months ago  
We've added a few work items to this issue that represent what steps were taken to resolve this issue. It took a little more time than expected, so the indicator for the **Estimation** field is shown in red.  
 Evaluated the list of features that are supported in YouTrack.  
 Launched my YouTrack.  
 Had a quick look around the application.





## Code review, project analytics

Upsource is a powerful tool for teams wishing to improve their code, projects, and processes. It serves as a polyglot code review tool, a source of data-driven project analytics, an intelligent repository browser and a team collaboration center. Upsource boasts an in-depth knowledge of Java, PHP, JavaScript, Python, and Kotlin to increase the efficiency of code reviews. It continuously analyzes the repository activity providing valuable insight into potential design problems and project risks. On top of that Upsource makes team collaboration easy and enjoyable.

Learn more at

[jetbrains.com/upsource](https://jetbrains.com/upsource)

The screenshot shows the Upsource interface for a pull request. At the top, the breadcrumb navigation is 'retrofit > Reviews > RTRFT-CR-14: IDE integration'. The pull request title is 'RTRFT-CR-14 IDE integration demo' with a status of 'Open'. The due date is 'Not specified'. Below the title, there are controls for 'Review revisions' with a 'Hide all' button and a visual comparison between revisions 'ef0f1a5' and 'f23fd8a'. Action buttons include 'Accept', 'Raise concern', 'Close review', 'Remove review', and 'Open in IDE'.

The main content area is divided into two columns. The left column has tabs for 'Overview' and 'Revisions +'. Under 'Overview', there are 'Labels' and a 'Review summary' section. The 'Review summary' section shows 'Changed files (4)' with a tree view of the repository structure:

- retrofit/src
  - main/java/retrofit2
    - Converter.java: +5, -11, status OK
    - ParameterHandler.java: 1/1, +5, -4, status OK
    - ServiceMethod.java: +1, -1, status OK
  - test/java/retrofit2
    - RequestBuilder...: 1/1, +373, -148, status OK

The right column is titled 'Review summary' and includes a 'Show resolved' checkbox and a 'Label' dropdown. It shows two review comments:

- Ivan Ivanov** on May 2, 2016: "I'm not quite sure the test name is descriptive enough." (commented on RequestBuilderTest.java, revision ef0f1a5)
- Maria Khalusova** on Oct 11, 2016: "What does this mean?" (commented on ParameterHandler.java, revision f23fd8a)

At the bottom, there is a text input field for leaving a comment, with instructions: "Leave a comment. Attach images by dragging & dropping or pasting from the clipboard."



# A powerful online environment for Jupyter notebooks

Datalore is perfect for data analysis and data science in the cloud. Enjoy smart coding assistance from the PyCharm IDE, run Python and Kotlin code on powerful CPUs and GPUs, create interactive visualizations, and collaborate with your team in real time.

Learn more at [jetbrains.com/datalore](https://jetbrains.com/datalore)

The screenshot shows the Datalore web interface. On the left, there is a sidebar with 'Attached files' and a table listing various files like '2019\_imports\_4128764\_...', 'notebook\_libs.json', and several CSV files. The main area displays a Jupyter notebook with a code cell containing a plot. The code uses 'sns.figure()' and 'ax.set\_\*' methods from 'matplotlib.pyplot'. Below the code, a bar chart titled 'Top data Science libraries' is shown. The chart displays the number of notebooks and the percentage of notebooks using various Python libraries. The top libraries are numpy (59.75%), pandas (47.11%), matplotlib (46.87%), sklearn (26.52%), and os (15.95%).

Library	Number of notebooks	Percentage
numpy	366,393,546	59.75%
pandas	310,275,308,685	47.11%
matplotlib	308,685	46.87%
sklearn	174,692	26.52%
os	105,053	15.95%
seaborn	100,358	15.24%
scipy	73,602	11.17%
time	51,979	7.89%
random	45,410	6.89%
math	44,897	6.82%
tensorflow	43,039	6.53%
sys	41,817	6.35%
Python Library	38,972	5.92%
datetime	38,117	5.79%
warnings	37,234	5.65%
keras	36,668	5.57%
re	36,254	5.50%
json	30,929	4.70%
requests	30,917	4.69%
collections	29,957	4.55%
torch	25,316	3.84%
pickle	23,658	3.59%
csv	21,499	3.26%
itk	20,195	3.07%
PL	18,367	2.79%



## The YouTrack, TeamCity, and Upsource connector

Hub is a user & permission management tool, serving as a single entry point for YouTrack, TeamCity, and Upsource. It enables advanced integration and provides a Dashboard to display the relevant information across these team tools.

Hub is a free tool, which is also distributed with other JetBrains team tools.

Learn more at [jetbrains.com/hub](https://jetbrains.com/hub)

The screenshot shows the 'Hub Dashboard' interface with the following components:

- Navigation:** 'Dashboards | Administration' header, search, and user profile icons.
- Dashboard Header:** 'Hub Dashboard' title, 'Add widget', 'Share...', and 'Edit' buttons.
- Issues by Subsystem in...:** A horizontal bar chart showing the distribution of 834 total issues across various subsystems.
 

Subsystem	Percentage
You...	9%
Jet...	8%
Mar...	8%
Inte...	8%
.NE...	7%
Rub...	6%
Loc...	6%
Con...	5%
Em...	5%
Spa...	5%
Kotl...	4%
Php...	4%
Jet...	3%
Tea...	3%
Inte...	2%
- Upsource: Commits for...:** A list of recent commits with details like 'Web-tests: reduce thread co...', 'do check mute for every even...', 'Merge branch 'develop' into f...', 'fixed test - saving of thread a...', and 'introduced systemTimeServic...'. Includes a 'finally did it' comment.
- Status: Hub :: develop<sup>2</sup>:** A list of build tasks such as 'Build Back-End + Front-End', 'Build Distributives', 'Build Docker Image', and 'Build Front-End'. Shows success status and durations.
- #{YouTrack} #Unresolv...:** A list of unresolved issues including 'JT-6234 Integration YouTrack with Visual studio...', 'JT-33026 Searching for all subtree-issues...', 'JT-5510 Have option to have more columns...', and 'JT-25147 Support Story Points Based Estimation/Velocity/Capacity'.
- To-do for today:** A checklist of tasks: 'Meeting with Alex', 'workflow suggestion for CY project', and 'Hub Projects demo follow up'.
- To be rescheduled for the next week:** A checklist of tasks: 'Leo's document', 'feedback form', and 'travel plan updates'.
- Board YouTrack Marketing: Current sprint (D...):** A bar chart showing the status of marketing tasks: 'Open, Sub...', 'In progress', 'In Review, ...', and 'Implemente...'. Includes an 'Owner' field.
- Countdown Widget:** A widget showing the time remaining for 'Work from home ends' with a progress bar and four circular indicators for 135 Days, 18 Hours, 30 Minutes, and 46 Seconds.

# Languages & Frameworks







Kotlin is a concise, safe, interoperable, and tool-friendly language.

Targeting different platforms: Server, Android™, Browser, Native. Allowing the business logic code to be shared across them.

Learn more at [kotlinlang.org](https://kotlinlang.org)

## Server

Kotlin / JVM

## Android

Kotlin / JVM



## Kotlin

multiplatform shared code

## iOS

Kotlin / Native

## Browser

Kotlin / JS



## Usage

5.4M+ developers from all over the world worked on Kotlin code in 2020, compared with 4.8M+ in 2019.

### Android

- Since 2019, Android has been Kotlin-first.
- 70% of the top 1000 apps use Kotlin.

### Server

- 1 in 2 Kotlin developers uses it for server-side.

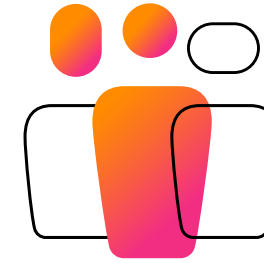
### Client

- 1 in 4 Kotlin developers is planning to try Kotlin/JS in their projects.

### Multiplatform

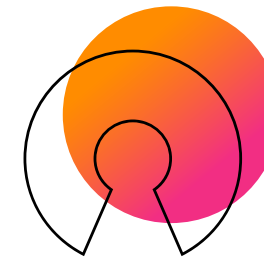
- 1 in 2 of our users has already released a multiplatform application or is about to release one in the near future.

You can find more Kotlin stats in the [Kotlin Census 2020](#).



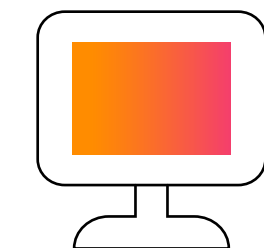
## Community

- 450+ contributors.
- 35K+ Slack community members.
- 100K+ Twitter followers.
- 43K+ Reddit page members.
- 200+ user groups.
- 100+ top universities teach Kotlin.



## Open-Source

140K+ Kotlin GitHub repositories.



## Try Kotlin

Books, Kotlin Playground, education tools, online courses.

Learn more about Kotlin at [kotlinlang.org](https://kotlinlang.org)

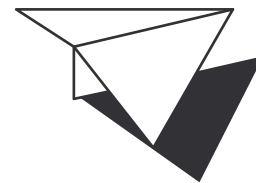


Ktor is an asynchronous framework for creating microservices, web applications, and more. It's fun, free, and open source.

Ktor is a multiplatform framework built from the ground up using Kotlin and coroutines, and it can be used to create connected applications. Whether you're creating websites, HTTP backends, RESTful systems, or even socket applications, Ktor provides you with everything you need.

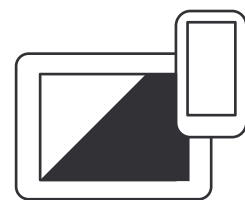
Learn more at [ktor.io](https://ktor.io)

```
fun main() {  
    embeddedServer(Netty, port = 8000) {  
        routing {  
            get("/") {  
                call.respondText("Hello, world!")  
            }  
        }  
    }.start(wait = true)  
}
```



## Lightweight

Use what you need. Ktor allows you to transparently configure only the functionality your project requires. No magic involved!



## Extensible

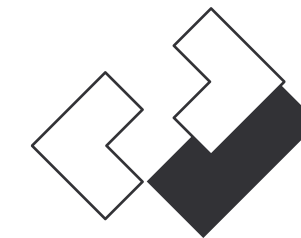
Extend what you need. With a configurable pipeline, you can create the extensions you need and place them anywhere you want.

# Simple and fun



## Multiplatform

Run it where you need it. Built from the ground up with [Kotlin Multiplatform](#) technology, you can deploy Ktor applications anywhere.



## Asynchronous

Scales as you need it. Using Kotlin [coroutines](#), Ktor is truly asynchronous and highly scalable. Use the power of non-blocking development without the callback nightmare.





## Create your own domain-specific language

Escape from the limits of textual notation and use our unique technology of projectional editing to create diagrams, forms, and use math notation. Express your domain processes and knowledge in a language that directly uses the concepts and logic from your field.

Learn more at [jetbrains.com/mps](https://jetbrains.com/mps)

The screenshot displays the MPS IDE interface with three panels. The top-left panel shows the code for two components: 'kernel subsystem' and 'typesystemEngine subsystem'. The top-right panel shows a dependency diagram where 'openapi' depends on 'smodel', 'collections-runtime' depends on 'smodel' and 'typesystemEngine', and 'kernel' depends on 'collections-runtime', 'smodel', and 'typesystemEngine'. The bottom panel shows a dependency matrix table.

```

<< ... >>
}
component kernel subsystem <<module>> {
  input ports:
    << ... >>
  output ports:
    smodel
    openapi
    Tuples-runtime
    Closures-runtime
    collections-runtime
    typesystemEngine
  dependencies:
    depends on smodel
    depends on collections-runtime
    depends on typesystemEngine
}
component typesystemEngine subsystem <<module>>:
  input ports:
    kernel
  output ports:
    collections-runtime
  dependencies:
    depends on collections-runtime
}
    
```

Diagram components and dependencies:

- openapi (API) depends on smodel (module)
- collections-runtime (runtime) depends on smodel (module) and typesystemEngine (module)
- kernel (module) depends on collections-runtime (runtime), smodel (module), and typesystemEngine (module)

	openapi	Tuples-runtime	Closures-runtime	smodel	collections-runtime	typesystemEngine
openapi						
Tuples-runtime						
Closures-runtime						
smodel	+					
collections-runtime						
kernel				+	+	+
typesystemEngine					+	

# Educational Products

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Whether you're learning programming or teaching it, we have professional tools to help.

JetBrains Academy, a project-based learning platform, and our Educational IDEs combine interactive learning with powerful, professional development tools. They also help educators create their own courses and impart their knowledge with code practicing tasks and integrated tests.





## Learn programming by creating working applications

Go beyond lectures — learn by developing. Choose a project and work through a curriculum that contains all the concepts necessary to build it. Challenge yourself to integrate everything that you've learned into your applications. Explore new topics and projects that become available to you as you improve. Master professional tools and become an accomplished developer. And enjoy the platform's full integration with JetBrains IDEs while working on your projects.

Learn more at  
[jetbrains.com/academy](https://jetbrains.com/academy)

The screenshot displays the JetBrains Academy interface for a 'Study plan' for a 'Java Developer'. The top navigation bar includes icons for 'Study plan', 'Map', and 'Tracks', along with a search bar labeled 'Find topic', a diamond icon with '200', a bell icon, and a user profile icon labeled 'AM'. The main content area is titled 'Study plan for Java Developer' and shows the current project as 'Simple Chatty Bot' with '1 / 5' stages completed. A progress indicator shows '3 minutes' remaining for the current stage and '5 hours' for the entire project. Below this, there are tabs for 'Activities', 'History', and 'About'. The 'Activities' tab is active, showing a list of completed topics: 'Types and variables', 'Comments', 'Naming variables', and 'Scanning the input', each with a 'Completed' status. A blue button labeled 'Work on project. Stage 2/5: Print your name' is prominently displayed, with a 'Continue' button next to it. Below this, the next stage is listed: 'Stage 3/5: Guess the age'. On the right side, there is a 'Problem of the day' section with a 'Solve problem' button and a '1 minute' timer. Below that, it indicates 'Next problem in 9h 20m 22s'. At the bottom right, there is a 'Java Developer' section showing 'Topics completed: 26 / 408 (6%)' and a progress bar. It also states 'You'll complete the track in: 114 hours.' and 'Activities left: 390'.



# Educational IDEs

The Educational IDEs are free to use and support Kotlin, Java, Python, JavaScript, Rust, C/C++, Scala, and Go.

As a learner, you can work on the JetBrains Academy project, join a public programming course created with a focus on programming code task, or enroll in a custom course prepared for you by your teacher or co-worker.

As an educator, you can impart your knowledge with code exercises that incorporate the assistance of integrated tests and hints, and you can share your courses publicly or privately with your students or coworkers.

Learn more at [jetbrains.com/edu-products](https://jetbrains.com/edu-products)

Course ▾ ⊕ ⊖ ⚙ - Task.kt ×

- ▾ Kotlin Koans 2/43
  - ▾ Introduction
    - > Hello, world!
    - > **Named arguments**
    - >  Default arguments
    - >  Triple-quoted strings
    - >  String templates
    - >  Nullable types

```
fun joinOptions(options: Collection<String>) =  
    options.joinToString(prefix = "[", postfix = "]")
```

Description Submissions ⏪ ⏩ ⚙ -

Make the function `joinOptions()` return the list in a JSON format (e.g., "[a, b, c]") by specifying only two arguments.

**Default and named** arguments help to minimize the number of overloads and improve the readability of the function invocation. The library function `joinToString` is declared with default values for parameters:

```
fun joinToString(  
    separator: String = ", ",  
    prefix: String = "",  
    postfix: String = "",  
    /* ... */  
): String
```

⏪ ⏩

✓ **Correct** 2 minutes ago

Congratulations!

[Peek Solution...](#)

**Thank you**

—