

ROME - APRIL 13/14 2018

{codemotion}

# { From Hackathon to Production in a Year }

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@kropp



# Hackathon

48 hours

100+  
participants

40+  
projects

# GAME OF CODES





HACKATHON

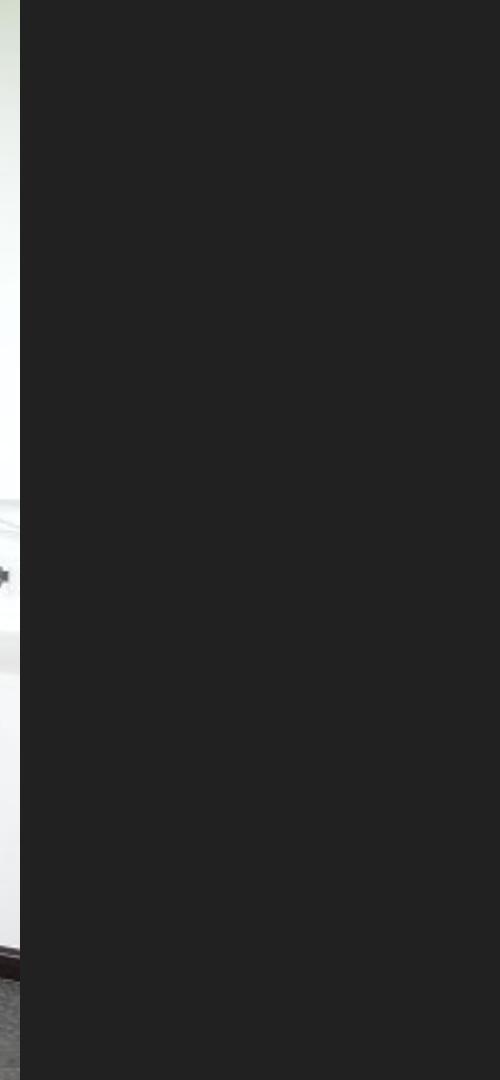
JetBrains Hackathon 2017



winners'  
cup



**Do anything you want**



# Thank-o-meter



See a need –  
fill a need

**dotMemory**

**Unit**



**Toolbox**

**App**



**YouTrack**

**Mobile**



# Toolbox App



A control panel for  
your tools and projects

JetBrains Toolbox

Projects Tools

Search

FAVORITES

	<b>jetbrains-toolbox</b>	12 minutes ago
	<b>exposed</b> ~/work/exposed	
	<b>jsontest</b> ~/work/js	
	<b>qtSprite</b> ~/work/ql	 IntelliJ IDEA Community 2017.2.5
	<b>ConsoleA</b> ~/tmp/ConsoleApplication/ConsoleApplication.sln	 IntelliJ IDEA Ultimate 2017.3 EAP ✓
	<b>Upsource</b> ~/work/upsource	3 months ago
	<b>jsonld-metadata</b> ~/work/jsonld-metadata	4 months ago
	<b>ganalytics</b> ~/work/qt-google-analytics	9 months ago
	<b>gradle-teamcity-gitversion-plugin</b> ~/work/gradle-teamcity-gitversion-plugin	9 months ago
	<b>chrome-open-tabs-in-bg</b>	10 months ago

Add to favorites

Hide project from Toolbox

# Team

# Team

**Core Developers**

Windows

macOS

Linux

and

UI/UX designer

UI developer

IntelliJ developer

# Team

## Core Developers

Windows

macOS

Linux

Intern

and

UI/UX designer ×2

UI developer

IntelliJ developer

UI developer

Support engineer

# Ring UI

The screenshot displays the Ring UI interface on a dark background. At the top left is a logo consisting of a blue and yellow abstract shape with the letters "HB". To its right are four navigation links: "Users", "Groups", "Spaces", and "Services". Further to the right are three icons: a plus sign inside a square, a vertical ellipsis, and a grid of nine squares. A blue rectangular button labeled "Log in..." is positioned next to the grid icon.

Below the header is a horizontal row of five buttons: "Run...", "Button one", "Button two", "Button three", and "Another action".

On the left side, there is a date picker component. It shows the date "20 Sep 2014" and a calendar for September 2014. The calendar highlights the 20th and 21st of September. Below the calendar, it shows the months from January 2010 to December 2018, with the current month being September 2016. The year 2018 is marked with a small asterisk.

On the right side, there is a text area containing the following content:

```
some text on top
before  Some text after
some text under loader
```

Below this text area, there are four examples of switch components:

- "Unchecked by default": A grey switch icon.
- "Checked by default": A blue switch icon.
- "Disabled unchecked": A grey switch icon with a diagonal line through it.

<https://jetbrains.org/ring-ui/>

20%

project

# Cross-platform development

There are **lots** of platform specific things

Every feature must be tested on all supported operating systems

# Design for compatibility

Backward compatibility

Forward compatibility

# Security

Always keep security in mind

- **HTTPS** only
- Signed data source
- Checksums for downloads

# **Code review**

**Find bugs early**

**Share knowledge**

**Improve code quality**

**Consistent design**

# Automate everything

Continuous Integration server **compiles** the app  
after each commit

CI server runs **tests**

Release is published with a **single click**

Installers (Stable)	Pending (100+)	Idle	Run ...	x
Build Smoke		Idle	Run ...	x
Build All	Pending (100+)	Idle	Run ...	x
Test All	Pending (100+)	Idle	Run ...	x
Feeds Acceptance Tests		Idle	Run ...	x
Upload Release	No builds to display	Pending (100+)	Idle	Run ... x
Build	<Active branches>	no hidden	x	
Build Number		Idle	Run ...	x
Build UI		Idle	Run ...	x
Build Chrome Extension		Idle	Run ...	x
Build Mac OS X		Idle	Run ...	x
Build Mac OS X Debug	Pending (100+)	Idle	Run ...	x
Build Windows		Idle	Run ...	x
Build Windows Debug	Pending (100+)	Idle	Run ...	x
Build Linux Appliance		Idle	Run ...	x
Docker	Various Docker images used for building and testing Toolbox App	5 successful	no hidden	x
External Libraries	<Active branches>	no hidden	x	
OpenSSL (Linux)		Idle	Run ...	x
OpenSSL (Mac OS)		Idle	Run ...	x
Feed		no hidden	x	
v1 Internal Feed		Idle	Run ...	x
v1 Public Feed		Idle	Run ...	x
v1 Publish Internal Feed		Idle	Run ...	x
v1 Publish Public Feed		Idle	Run ...	x

# Eating your own dog food

**Eating your own dog food,**  
**also called dogfooding,**  
is a slang term used to reference a  
scenario in which an organization uses its  
own product.

The idea is that if the organization truly  
believes its own product to be superior, it  
would use the product itself.

# Dogfooding

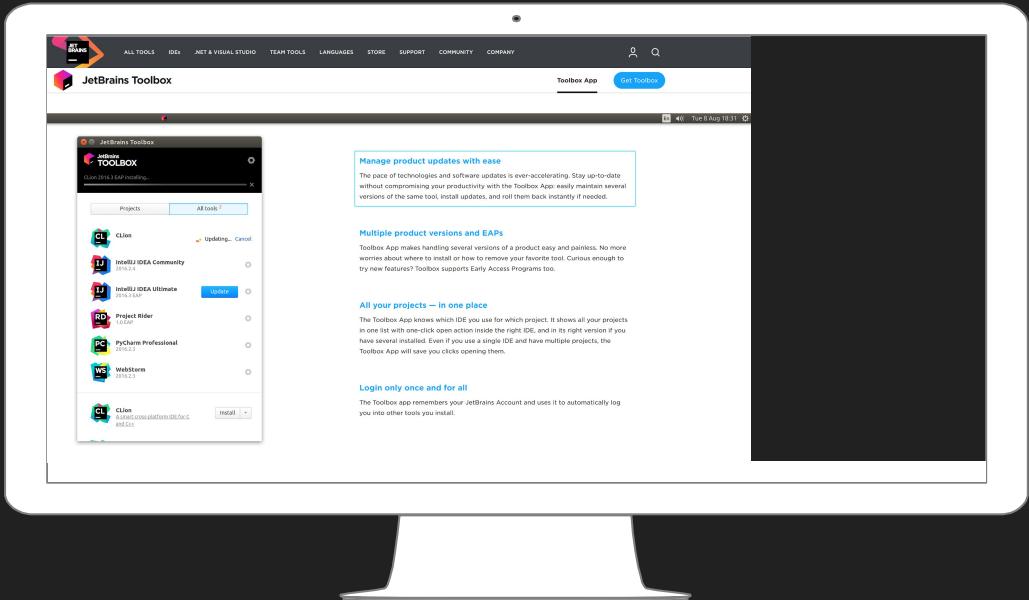
Learn your application

Get early feedback from colleagues

# Toolbox App

Check it out at  
[jetbrains.com/toolbox/app](https://jetbrains.com/toolbox/app)

Follow @JBToolbox  
for updates



# Thank you!

Victor Kropp  
@kropp

# Questions?

Victor Kropp  
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