

**Тема:** Программа курса IT школы Samsung и среды разработки

Мария Александровна Сокольская

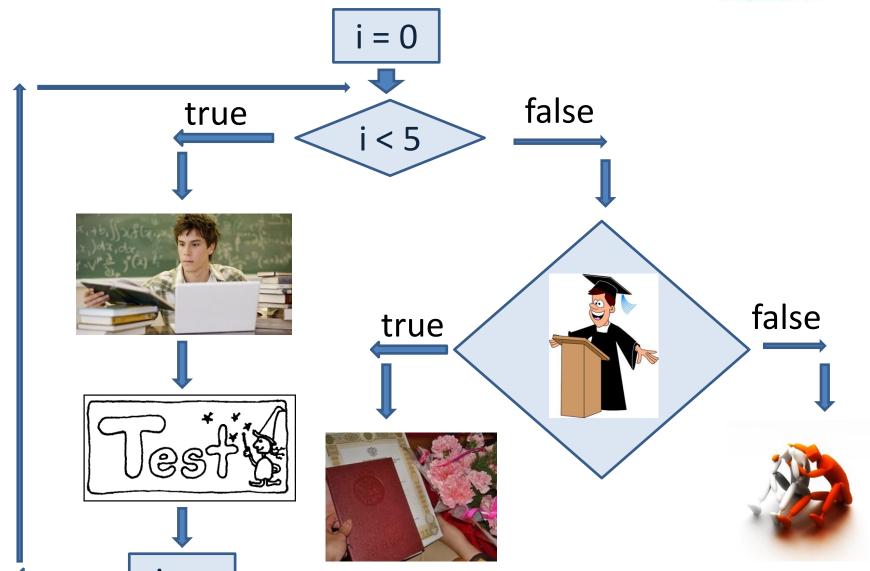
# Программа дополнительного образования IT школа Samsung



- **20 городов** России от Калининграда до Владивостока
- бесплатное обучение **более 5000** школьников за 5 лет
- -изучение основ программирования на уровне университетских курсов
- Более 40 площадок с уникальным сочетанием оборудования и программного обеспечения

## Учебный процесс









- 1. Основы программирования на языке Java
- 2. Введение в объектно-ориентированное программирование
- 3. Основы программирования Android приложений
- 4. Алгоритмы и структуры данных
- 5. Основы разработки серверной части мобильных приложений



## Среды разработки

- 1. IntelliJ IDEA. Предназначена для разработки проектов на языке Java.
- 2. Android Studio. Основная среда программирования, предназначенная для разработки мобильных приложений для ОС Андроид.

#### Установка ПО

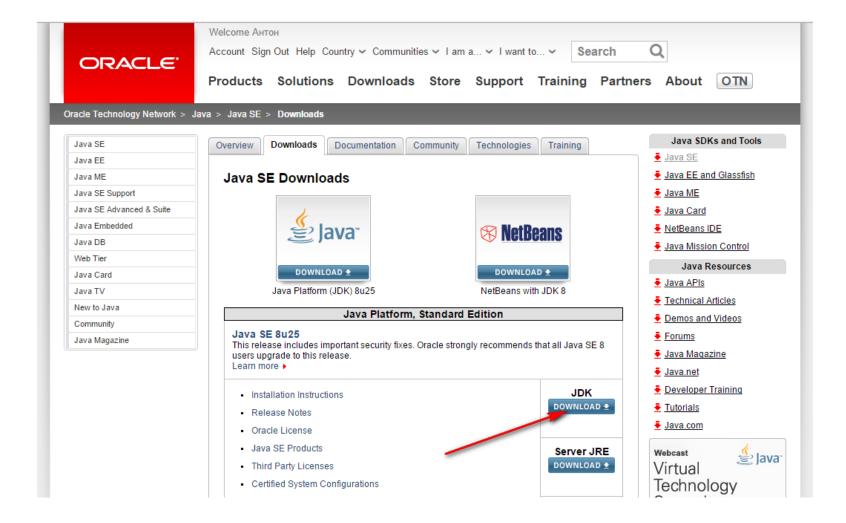


- 1. Установить JDK (Java Development Kit).
- Скачиваем и устанавливаем с официального сайта:
- http://www.oracle.com/technetwork/java/java ase/downloads/index.html

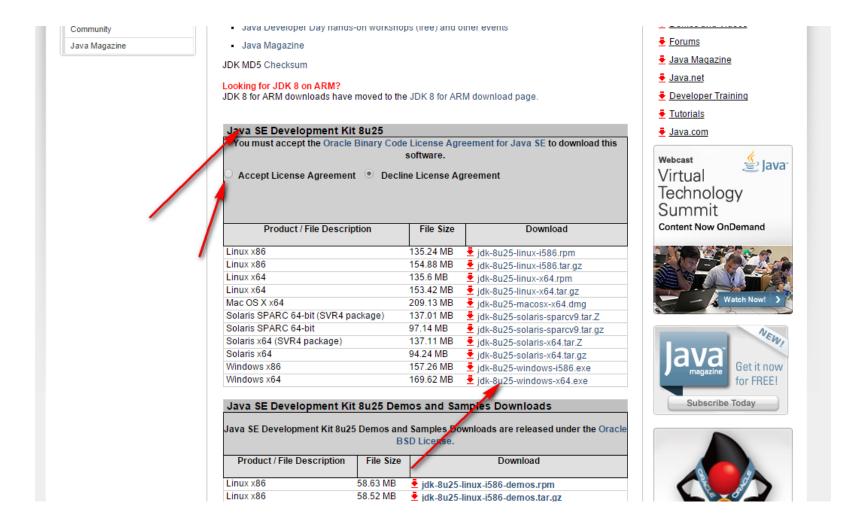
Процесс установки стандартный, состоит из нескольких шагов.





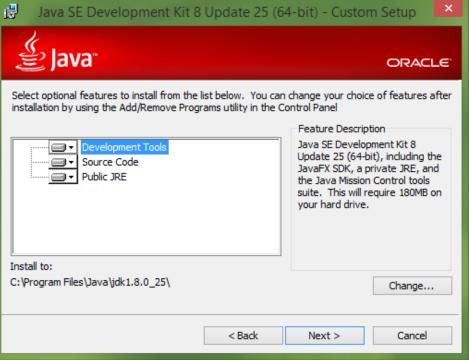




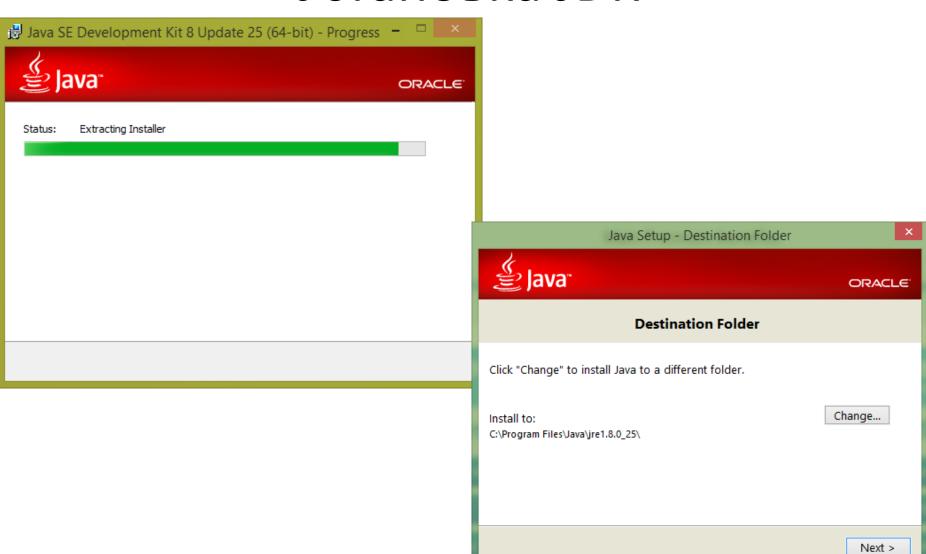














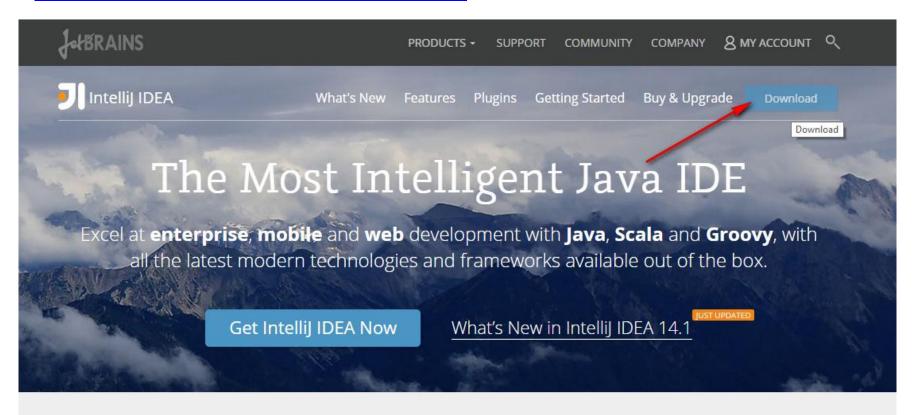


#### Установка ПО

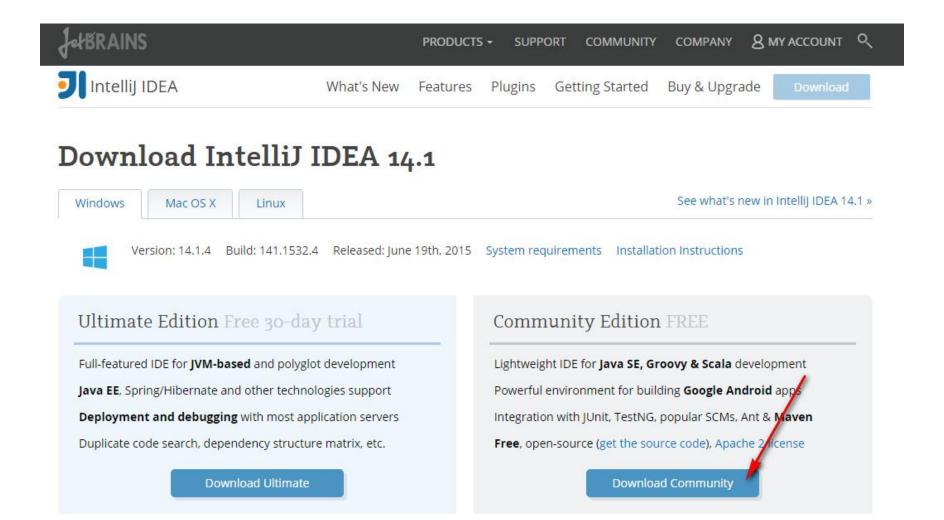


- 2. Установить IntelliJ IDEA.
- Скачиваем и устанавливаем с официального сайта:

https://www.jetbrains.com/idea/







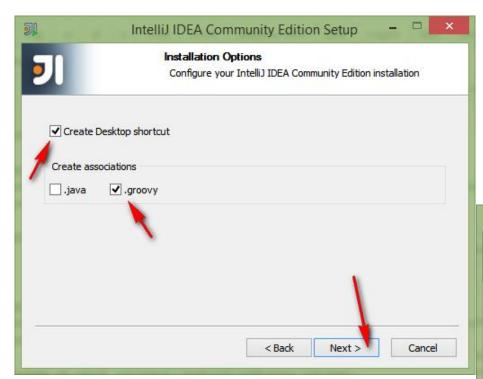


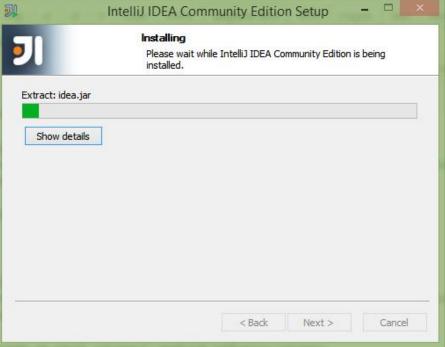


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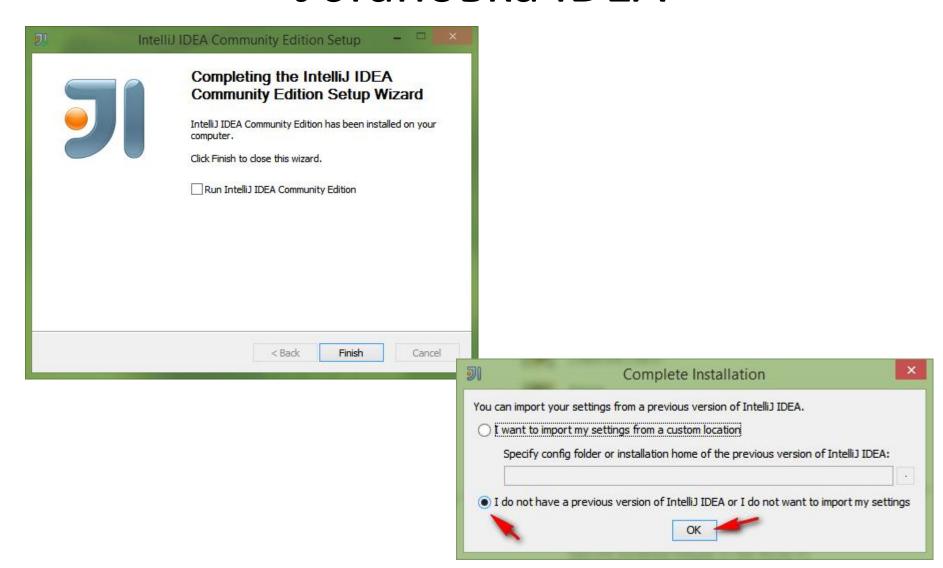




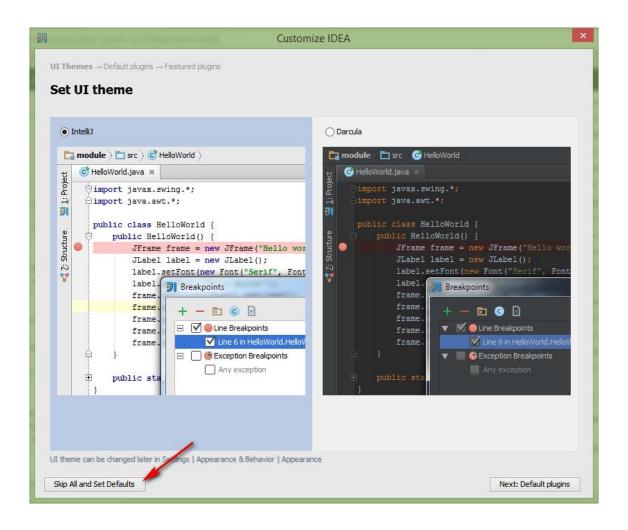




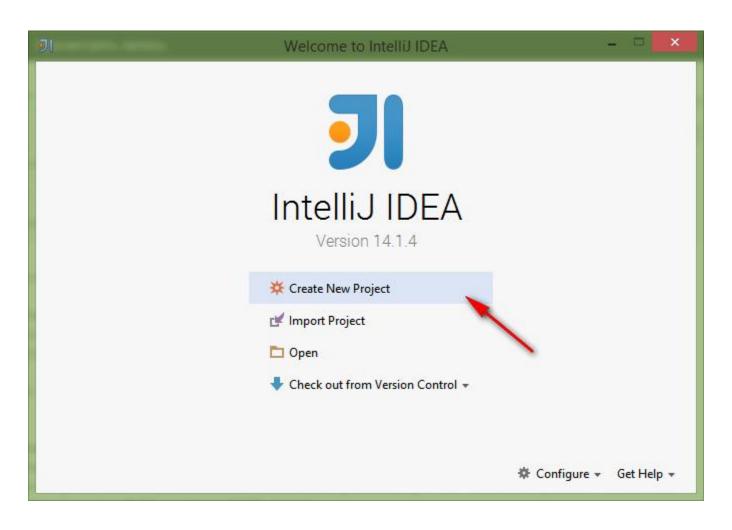




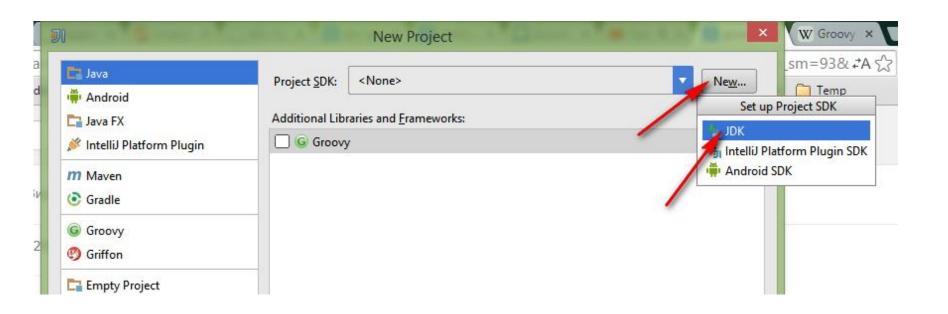




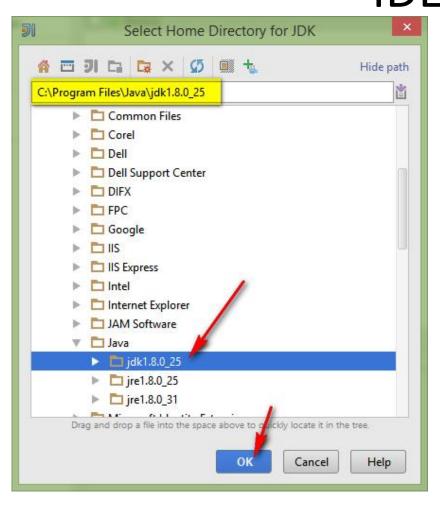


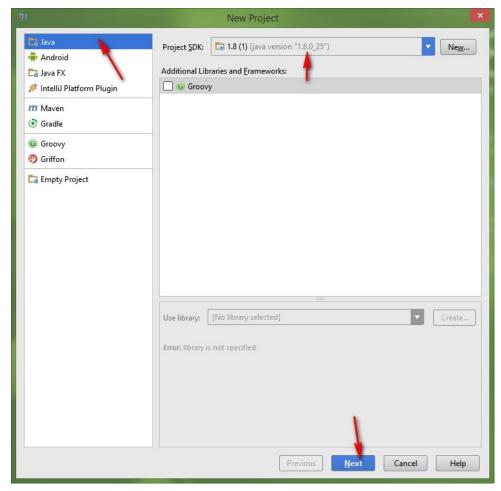




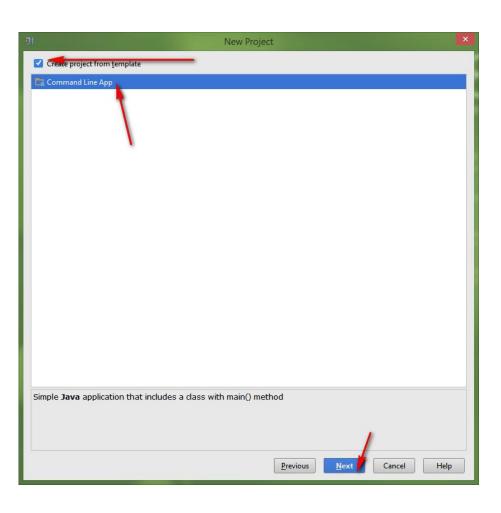


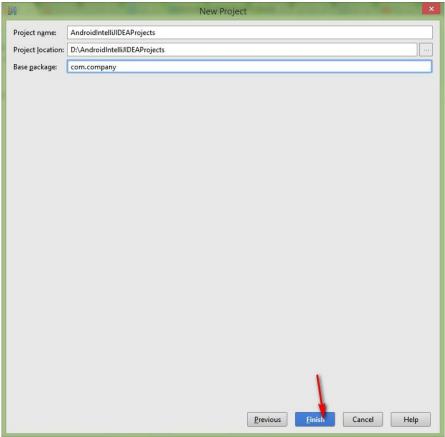




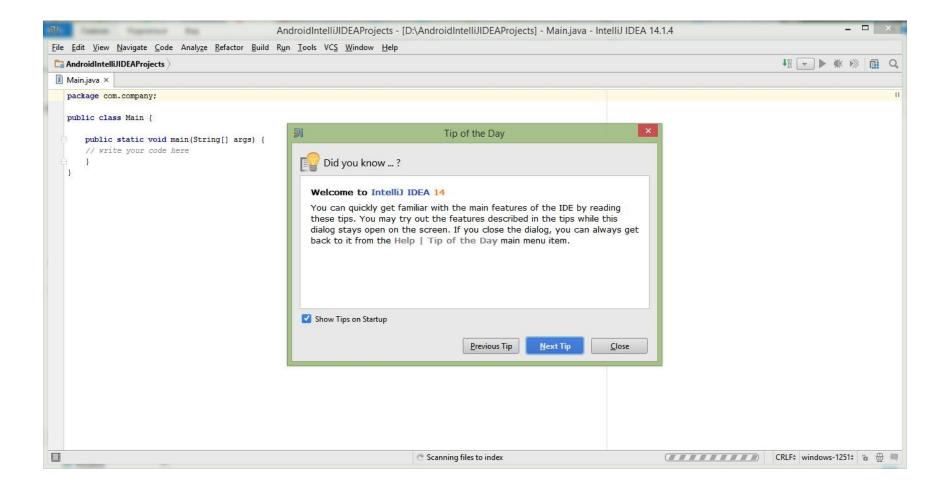




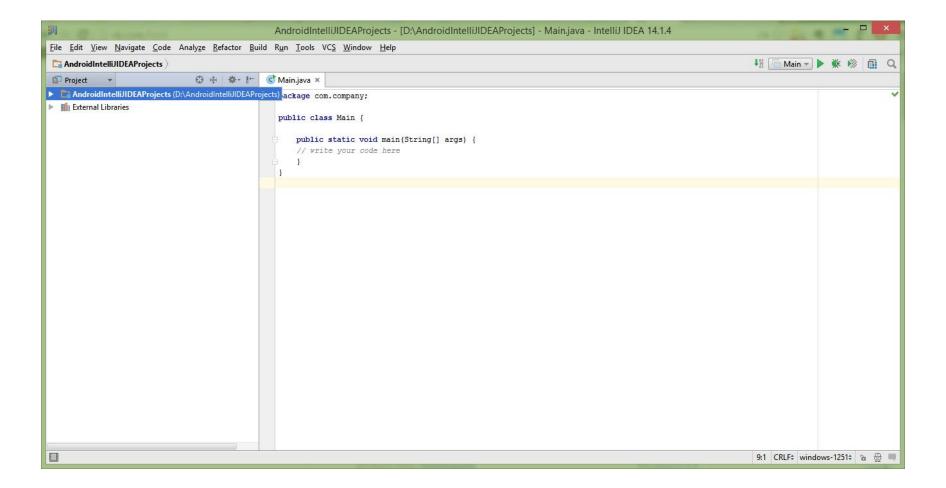










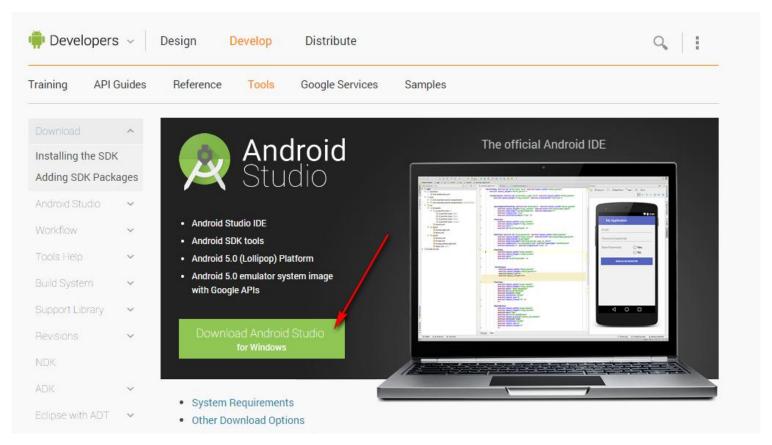


#### Установка ПО



- 3. Установить Android Studio.
- Скачиваем и устанавливаем с официального сайта:

http://developer.android.com/sdk/index.html.







Develop > Tools > Download Android Studio and SDK Tools



Installing the SDK Adding SDK Packages

Android Studio

Support Library

Before installing Android Studio or the standalone SDK tools, you must agree to the following terms and conditions.

be third party beneficiaries to this License Agreement and that such other companies shall be entitled to directly enforce, and rely upon, any provision of this License Agreement that confers a benefit on (or rights in favor of) them. Other than this, no other person or company shall be third party beneficiaries to this License Agreement.

14.5 EXPORT RESTRICTIONS. THE SDK IS SUBJECT TO UNITED STATES EXPORT LAWS AND REGULATIONS. YOU MUST COMPLY WITH ALL DOMESTIC AND INTERNATIONAL EXPORT LAWS AND REGULATIONS THAT APPLY TO THE SDK. THESE LAWS INCLUDE RESTRICTIONS ON DESTINATIONS, END USERS AND END USE.

14.6 The rights granted in this License Agreement may not be assigned or transferred by either you or Google without the prior written approval of the other party. Neither you nor Google shall be permitted to delegate their responsibilities or obligations under this License Agreement without the prior written approval of the other party.

14.7 This License Agreement, and your relationship with Google under this License Agreement, shall be governed by the laws of the State of California without regard to its conflict of laws provisions. You and Google agree to submit to the exclusive jurisdiction of the courts located within the county of Santa Clara, California to resolve any legal matter arising from this License Agreement. Notwithstanding this, you agree that Google shall still be allowed to apply for injunctive remedies (or an equivalent type of urgent legal relief) in any jurisdiction.

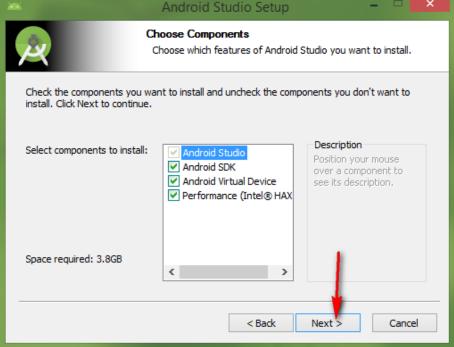
November 13, 2012

I have read and agree with the above terms and conditions

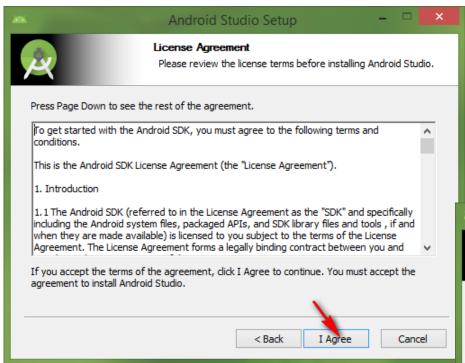
**Download Android Studio for Windows** 

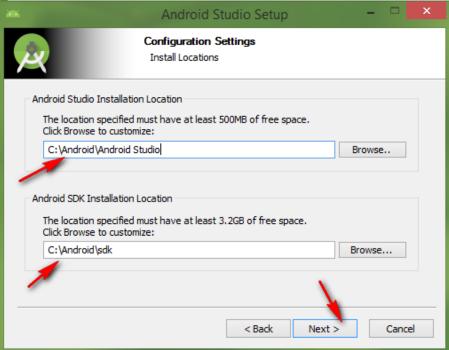










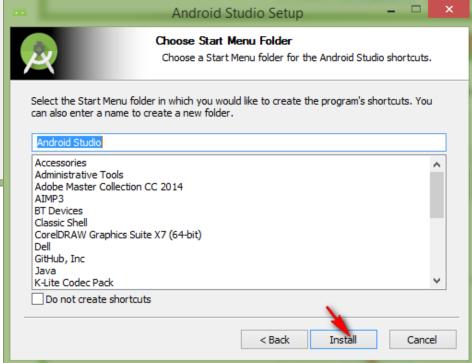




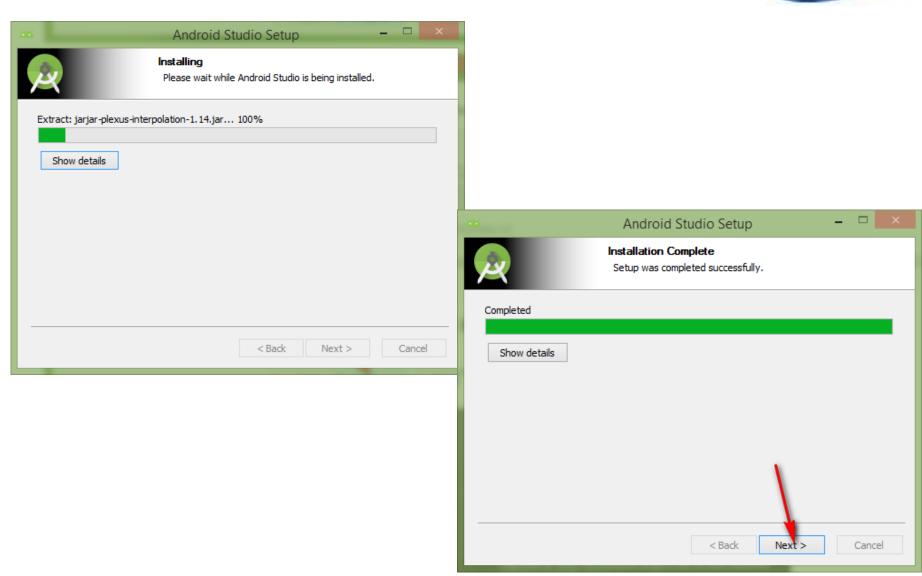




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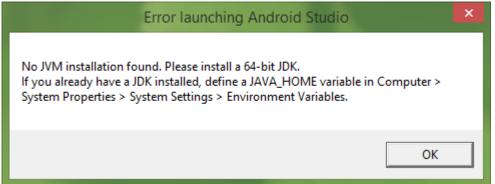






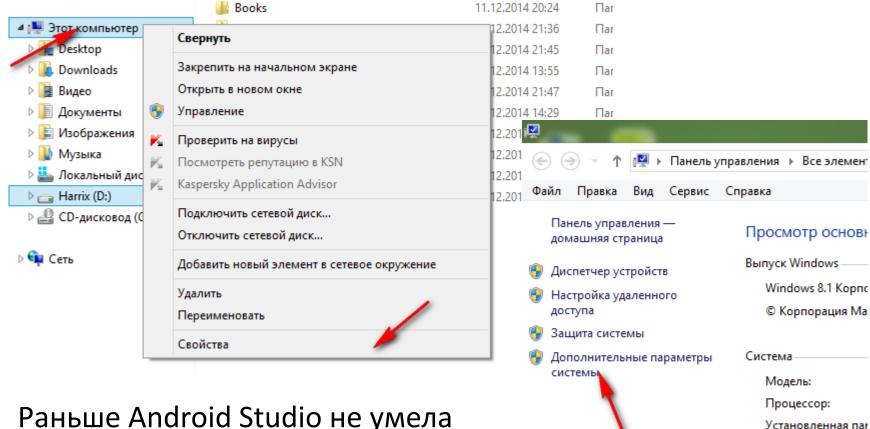






## Установка Android Studio. Настройка связи с JDK



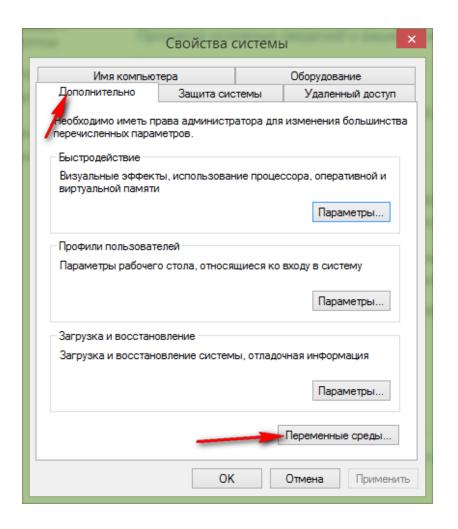


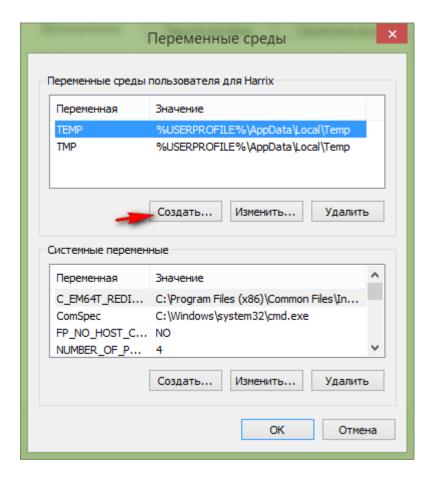
Раньше Android Studio не умела находить установленную Java. Если такая проблема возникнет см. слайды 31-34.

(O3Y):

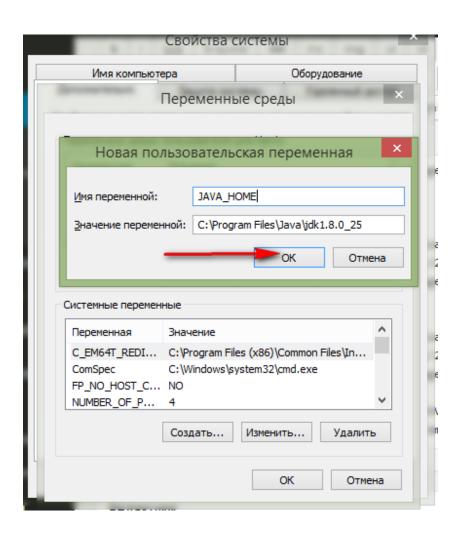
Тип системы: Перо и сенсорный

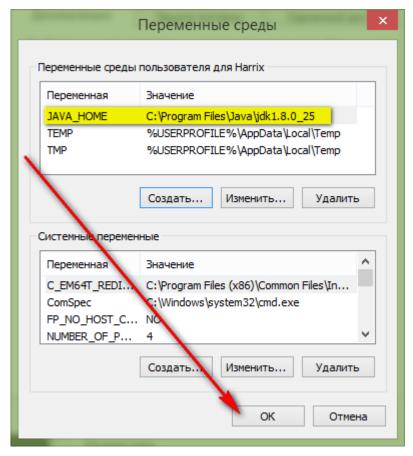




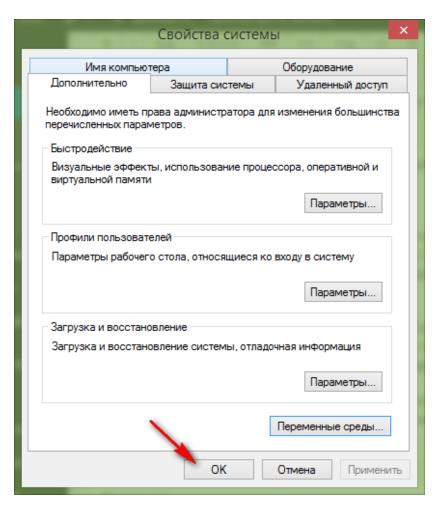








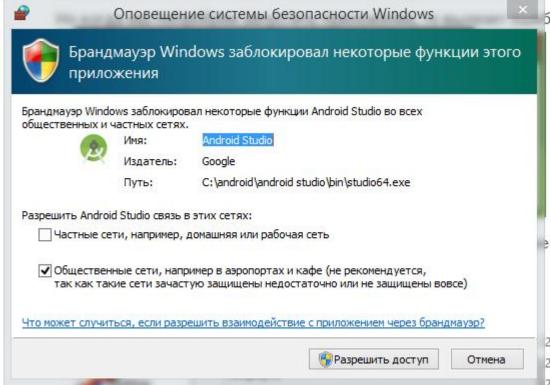




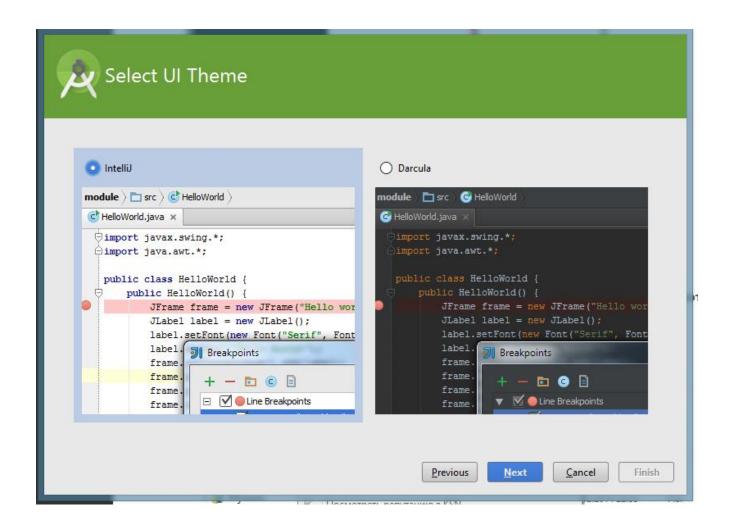








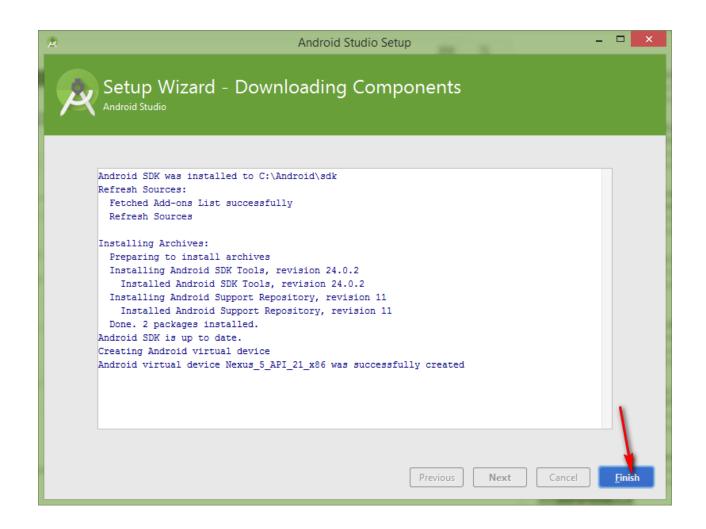




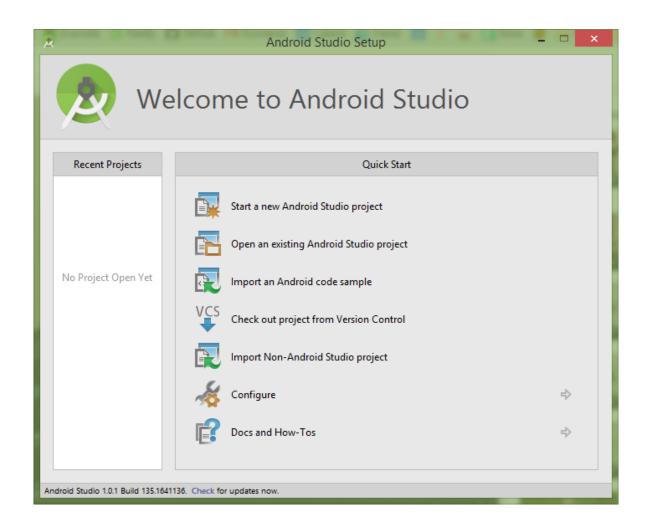


| R  | Android Studio Setup | X                      |
|--|----------------------|------------------------|
| Setup Wizard - Down                        | Update Info          | d Studio is available! |
| Android Studio                             |                      |                        |
| Downloading Android SDK Tools, revision 24 | 4.0.2                |                        |
| Show Details                               |                      |                        |
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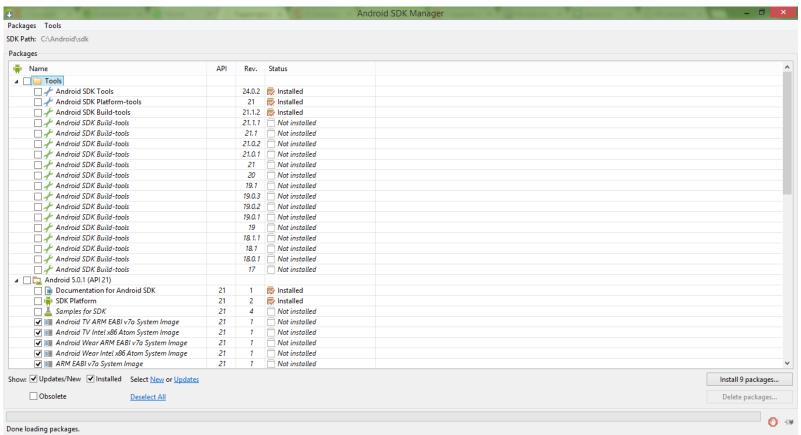






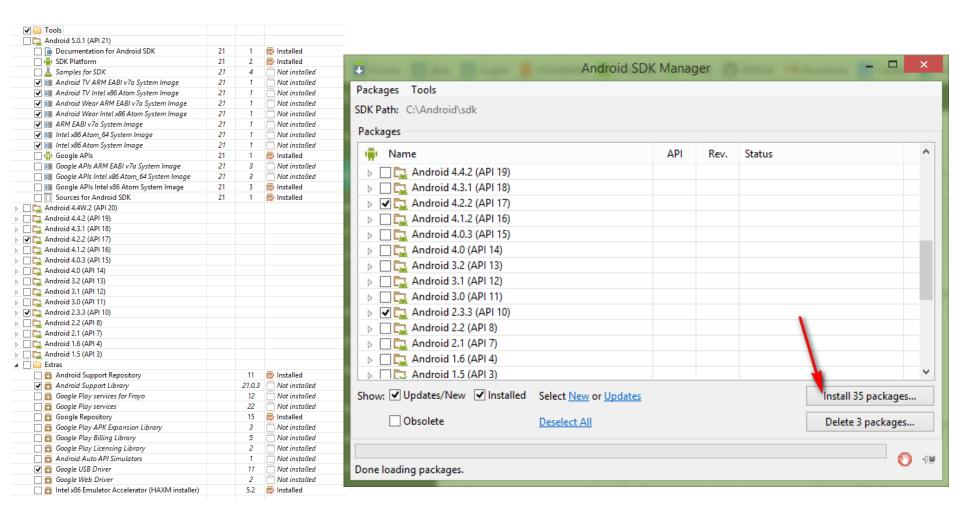


В папке **C:\Android\sdk** есть программа **SDK Manager.exe**. Запустите её (закрыв при этом Android Studio). При этом вначале мелькнет черное окно и сразу закроется, и только потом, через некоторое время, откроется приложение.



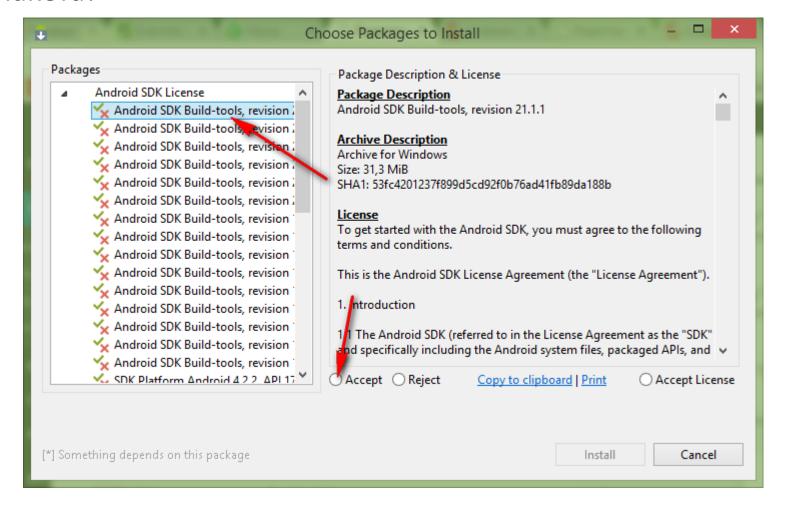
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Вам нужно будет согласиться с лицензией для каждого пакета!





| Android SI   | OK Manag     | ger       |                    | ×   |
|--|--------------|-----------|--------------------|-----|
| Packages Tools   |              |           |                    |     |
| SDK Path: C:\Android\sdk                                       |              |           |                    |     |
| Packages Packages  |              |           |                    |     |
| ı <mark>≒</mark> ı Name  | API          | Rev.      | Status             | ^   |
| 🗌 🔁 Android 4.0 (API 14)                                       |              |           |                    |     |
| 🗌 🔁 Android 3.2 (API 13)                                       |              |           |                    |     |
| 🗌 🔁 Android 3.1 (API 12)                                       |              |           |                    |     |
| 🗌 🔁 Android 3.0 (API 11)                                       |              |           |                    |     |
| ✓ □ Android 2.3.3 (API 10)                                     |              |           |                    | _   |
| ☐ 🔁 Android 2.2 (API 8)  |              |           |                    | _   |
| ☐ 🔁 Android 2.1 (API 7)  |              |           |                    |     |
| Android 1.6 (API 4)  |              |           |                    |     |
| Android 1.5 (API 3)  |              |           |                    |     |
| Extras   |              |           |                    |     |
| ☐ 🛅 Android Support Repository                                 |              | 11        | lnstalled          |     |
| ✓  ☐ Android Support Library                                   |              | 21.0.3    | ☐ Not installed    | _   |
| Google Play services for Froyo                                 |              | 12        | ☐ Not installed    |     |
| Google Play services   |              | 22        | Not installed      |     |
| Show: ✓ Updates/New ✓ Installed Select New or Updates          |              |           | Install 35 package | S   |
| Obsolete Deselect All  |              |           | Delete 3 package   | 5   |
|  |              |           |                    | -GM |
| Downloading Android SDK Build-tools, revision 21.1.1 (15%, 251 | 14 KiB/s, 10 | seconds l | eft)               |     |



| Android SDK Manager – 🗖                               |     |        |                   |      |
|---|-----|--------|-------------------|------|
| Packages Tools  |     |        |                   |      |
| SDK Path: C:\Android\sdk                              |     |        |                   |      |
| Packages  |     |        |                   |      |
| ı <u>≝</u> ı Name                                     | API | Rev.   | Status            | ^    |
| Extras  |     |        |                   | _    |
| ☐   |     | 11     |                   |      |
| ☐ a Android Support Library                           |     | 21.0.3 |                   |      |
| Google Play services for Froyo                        |     | 12     | Not installed     |      |
| Google Play services                                  |     | 22     | Not installed     |      |
| Google Repository                                     |     | 15     | 🔯 Installed       |      |
| 🗌 👩 Google Play APK Expansion Library                 |     | 3      | ☐ Not installed   |      |
| 🗌 👩 Google Play Billing Library                       |     | 5      | ☐ Not installed   |      |
| Google Play Licensing Library                         |     | 2      | Not installed     |      |
| ☐ 🔂 Android Auto API Simulators                       |     | 1      | Not installed     |      |
| Google USB Driver                                     |     | 11     | 🔯 Installed       |      |
| Google Web Driver                                     |     | 2      | ☐ Not installed   |      |
| ☐ 👩 Intel x86 Emulator Accelerator (HAXM installer)   |     | 5.2    | 🔯 Installed       | _    |
|   |     |        |                   |      |
| Show: ✓ Updates/New ✓ Installed Select New or Updates |     |        | Install packages. |      |
| Obsolete Deselect All                                 |     |        | Delete 3 packages | 5    |
|   |     |        |                   | J.EW |
| Done loading packages.                                |     |        |                   | 7.99 |

### Домашнее задание



#### Установить на домашнюю машину пакеты:

- JDK,
- IntelliJ IDEA
- Android Studio.