



anderScore
trust in competence

FlüSchmiede: Vocabulary Trainer App Basics

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2. FlüSchmiede idea
3. What actually is Android
4. Java basics
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6. Developing software? Android Studio!
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8. Summary
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1. Introduction of participants: anderScore

Max Johenneken

- Studys in 6 semester Computer Science at University of applied sciences Bonn-Rhein-Sieg
- Software Developer
- since 2013 at anderScore
- Key intrests
 - Mobile devices
 - Web-development
 - Embedded Systems
 - Android, JavaScript, Java, Web Services, C++



1. Introduction of participants: FlüMis



- My name is ...
- I come from ...
- I am in Cologne, because ...
- Why is the FlüSchmiede interesting to me?

1. Introduction of participants: anderScore

- Since 2005: individual customer projects over complete software lifecycle:
Calculation Business-case, Requirements analysis/ Process improvement, Architectural design, Development, Testing/ Test automation, Operational handover, Project management, Trainings
- Focus Java: Interface techniques, System integration, SOA, GUI-frameworks/Javascript, Mobile Apps
- Performance optimizations, Migrationens from legacy-SW
- Security checks & stabilizations (BSI-Grundschutz)
- No product "off the shelf", but individual applications
- Agile methods, short cycles → target oriented, usable & high quality results
- More than 20 large customers
- Events **Goldschmiede** 



2. Why FlüSchmiede? Format of FlüSchmiede

- Dat Hätz vun dr Welt is Kölle
- From the World to Cologne
- From Cologne to the World

- What have we planned?
 - Build up your knowledge
- Why?
 - Promoting your future!
- How often?
 - Every 3-4 weeks
- From who?
 - Colleagues of anderScore
 - Maybe someone you know?
- Next meeting:
 - Will be announced on anderScore website and other channels



2. Why FlüSchmiede? Your contribution as participant

- Independence
- Active involvement
- Suggestions from FlüSchmiede
 - understand proactively
 - extend them yourself
- anderScore contribution:
FlüSchmiede-topics = our initial suggestions
- Your contribution:
Initiative, self-responsibility, active involvement
Only you create your own life!



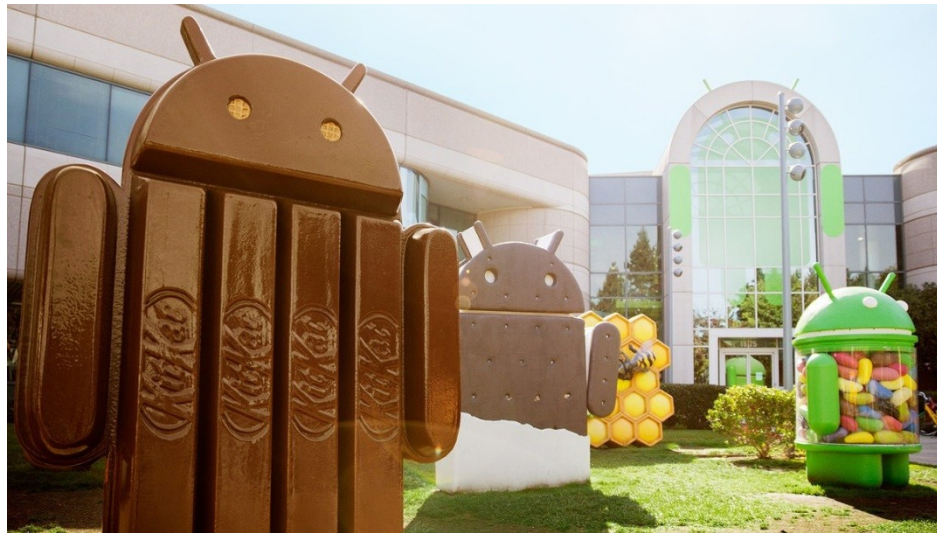
3. What actually is Android?: In general



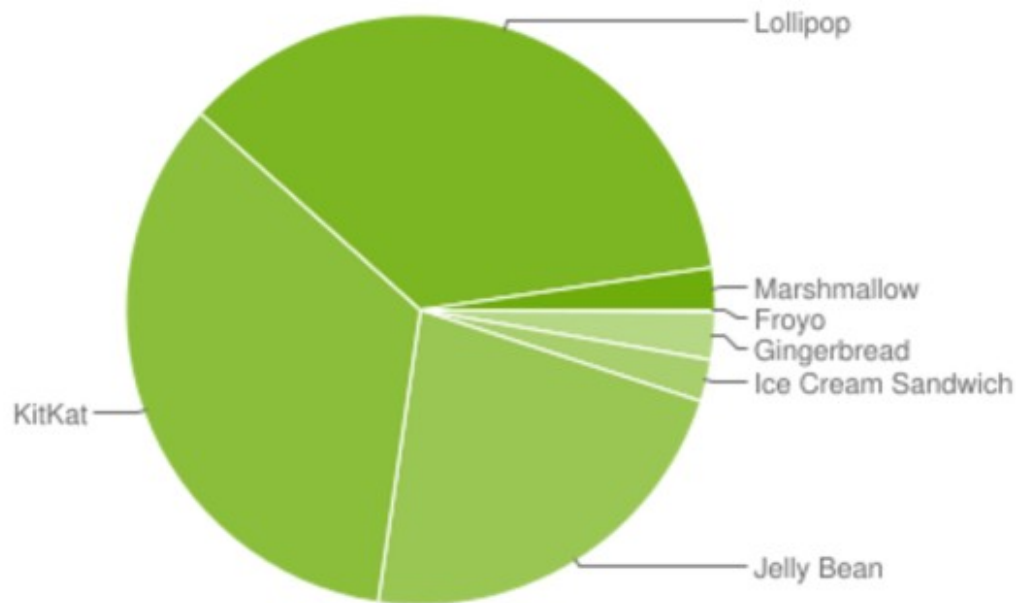
- Device-independent Operating System from Google
- Since Octobre 2008 official available
- Apps based on the programming language „Java“
- 2 Millionen Apps available (February 2016)

3. What actually is Android?: Android OS

- Based on Linux
- Free and open source software (Open Handset Alliance)
- Market share of over 80% (2. quarter 2014)
- Millions of new devices each day
- Android versions are named after sweets alphabetically



3. What actually is Android?: Android versions



Version	Codename	API	Distribution
2.2	Froyo	8	0.1%
2.3.3 - 2.3.7	Gingerbread	10	2.6%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	2.3%
4.1.x	Jelly Bean	16	8.1%
4.2.x		17	11.0%
4.3		18	3.2%
4.4	KitKat	19	34.3%
5.0	Lollipop	21	16.9%
5.1		22	19.2%
6.0	Marshmallow	23	2.3%

Data collected during a 7-day period ending on March 7, 2016.

Any versions with less than 0.1% distribution are not shown.

source: <http://www.heise.de/newsticker/meldung/Android-Statistik-Lollipop-jetzt-am-meisten-verbreitet-3131083.html>

3. What actually is Android?: Android devices I



3. What actually is Android?: Android devices II



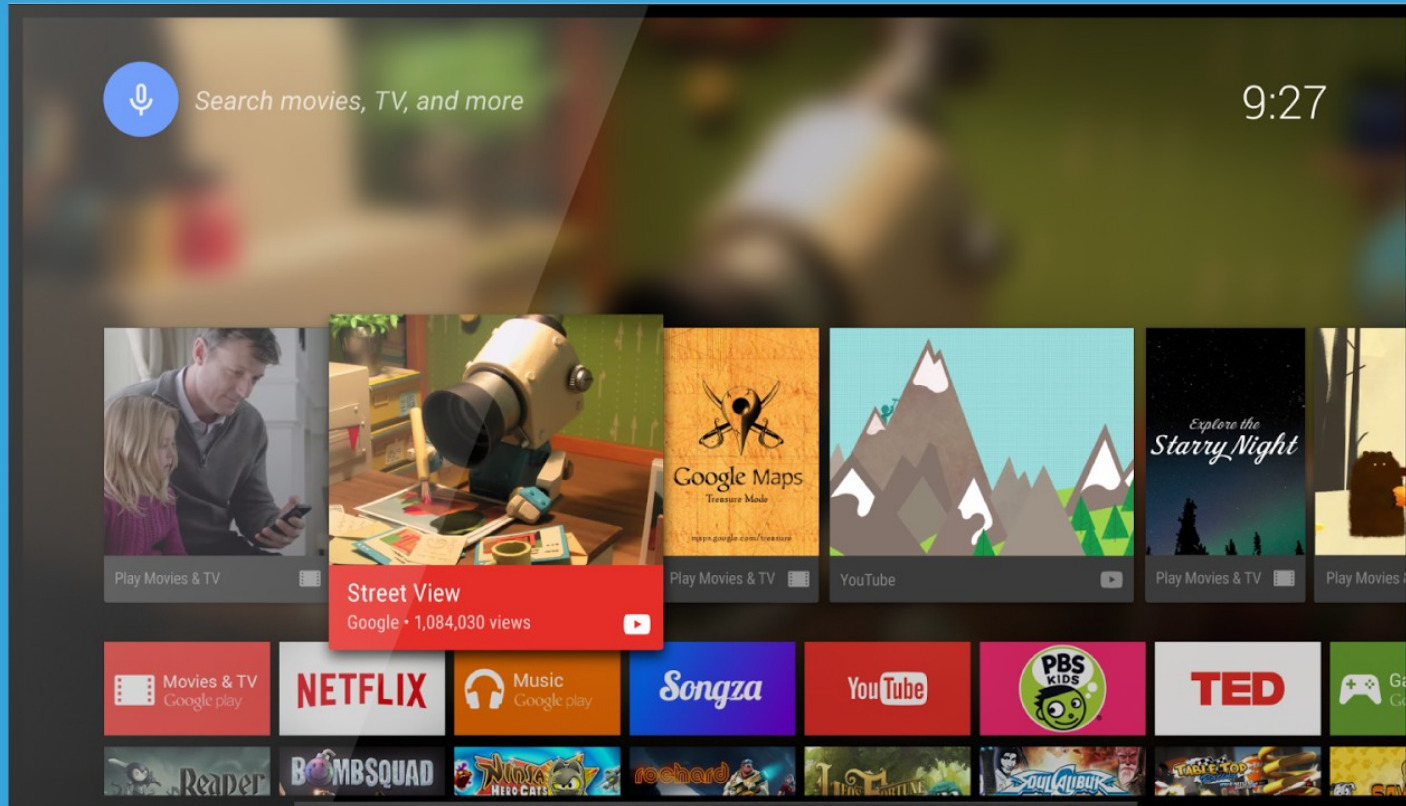
3. What actually is Android?: Android devices III



3. What actually is Android?: Android devices IV



3. What actually is Android?: Android devices V



3. What actually is Android?: Android devices VI



3. What actually is Android?: Android devices VII



3. What actually is Android?: Android devices VIII



3. What actually is Android?: Android devices IX



3. What actually is Android?: Literature

google.com

developer.android.com

stackoverflow.com

docs.oracle.com/javase/8/

Codingbat.com



The programming language to develop Android Apps

4. Java Basics: What is Java?

- Programming language and computing platform
- Published by Sun Microsystems in 1995
- Platform-agnostic Runtime Environment
- „write once run anywhere“
- Java and JavaScript are totally different languages
- Very widespread
- Abstracts the underlying hardware layer

4. Java Basics: Summary



- Sequential procedure
- Functions structure source code
- Variables save states
- Conditions
- Classes and objects
- Data types
- Structure of a Android Application
- Inheritance and overridin functions

5. Break



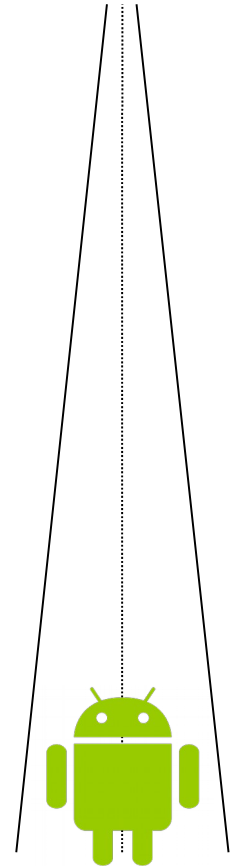
6. Developing software? Android Studio!



7. Heading for a vocabulary trainer app

Exercises today:

- Practice theoretical content
- Create and run own Android app
- Change and read from User Interface



- The Android Operation System
- The Java Programming language
- Android Studio
- First Steps in Java
- Object-oriented programming
- Structure of a Android App

9. Questions & answers



Which requirements do you have to a
vocabulary trainer

What shall the vocabulary trainer be able
to do?


- Programming course for Refugees
- Every 2 weeks: 28.04., 12.05., 26.05., ... (to be continued)
- Starting at 19.00 at Coworking Cologne, An der Bottmühle 5, 50678 Köln
- Reservations via Doodle:
<http://doodle.com/poll/vspxtbxfvfxwptdg>
- Prerequisites: Interest in programming, previous knowledge is helpful, but not required
- Computes are provided, own laptop is welcome to be brought
- Homepage:
<http://cologne.refugeesonrails.org/>

Feedback? Thanks a lot!

Want more?

Will be announced on anderScore
Website and other channels

 info@anderScore.com

 0221-3558-3530

Slides, code:

<https://github.com/anderscore-gmbh>

