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ВДОХНОВЛЯЕМ ВЫУЧИТЬ

DEVELOPMENT AND TESTING

English for IT

Онлайн-курс

STRUCTURE

SOFTWARE DEVELOPMENT

- **What is development.** Даем определение
- **Job titles.** Кто чем занимается
- **The Rational Unified Process (RUP).** Унифицированный процесс разработки
- **Programming languages.** Языки программирования

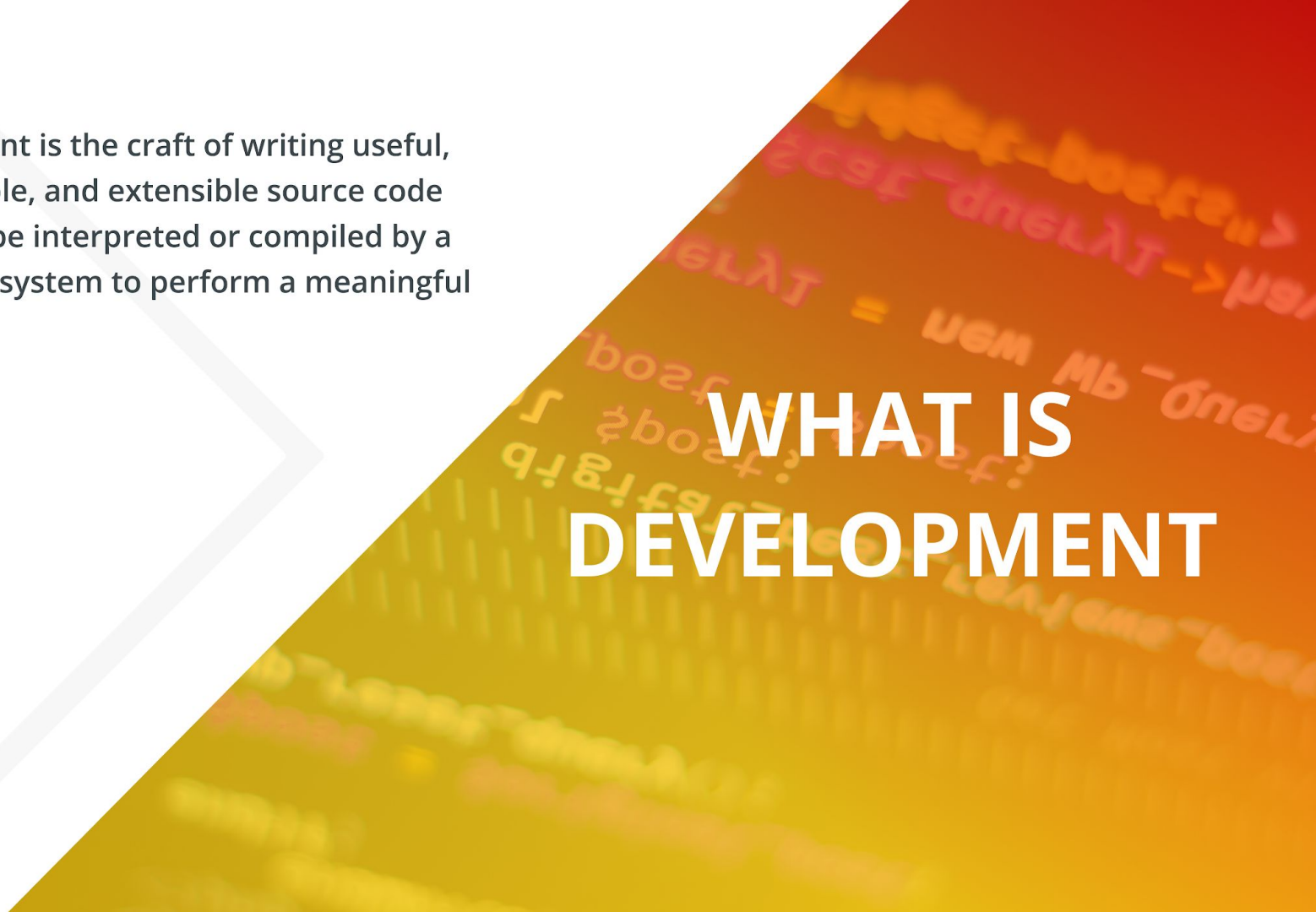
TESTING

- **What is software testing.** Даем определение
- **Job titles.** Кто чем занимается
- **Testing levels.** Уровни тестирования
- **White-box and Black-box testing.** Тестирование «белого ящика» и «чёрного ящика»

LET’S SUM UP!

USEFUL LINKS

Development is the craft of writing useful, maintainable, and extensible source code which can be interpreted or compiled by a computing system to perform a meaningful task.



WHAT IS DEVELOPMENT

JOB TITLES

- **Coders** are people who can write some code that compiles and runs, which will do something they want when it's given the right inputs. This could be a program, a script, some classes or a library.
- **Developers are programmers** to a greater or lesser extent. They are same as programmers, but they are not experts like programmers and they perform general development and designing like web designers and developers.
- **Software Engineers** design and make new software and contribute in their engineering. An engineer position would usually imply that you are a developer who has a specific type of degree, some knowledge of engineering, and is capable of designing a system.
- **Programmers** write awesome code. Programmers do not develop or design or invent anything new just use existed languages like html, css and python, and they are experts in those languages.

THE RATIONAL UNIFIED PROCESS (RUP)

THE RATIONAL UNIFIED PROCESS IS A PROCESS THAT DESCRIBES WHO IS DOING WHAT, HOW, AND WHEN.

- Workflows, the “when”
- Activities, the “how”
- Workers, the “who”
- Artifacts, the “what”

THIS PROCESS DIVIDES THE DEVELOPMENT PROCESS INTO FOUR PHASES:

- Inception
- Elaboration
- Construction
- Transition

PROGRAMMING LANGUAGES

- Low-Level Programming languages
- High-Level Programming languages

WAYS OF TESTING

- Manual Testing
- Automation Testing
- Semiautomatic Testing

WHAT IS SOFTWARE TESTING

JOB TITLES

- A software **quality assurance engineer** is someone who monitors every phase of the software development process so as to ensure design quality, making sure that the software adheres to the standards set by the development company.
- **Quality control (QC) specialists** are in charge of supervising quality control for their organization and troubleshooting quality-related issues as they arise. They also perform quality-related tests to ensure products comply with company and legal standards.
- **QA Automation engineers** design applications that will convert manual test preparation into automated test preparation. They design, create, test and implement these solutions in order to automate as much of the manual test preparation as possible by using codes and scripts.

- Unit testing
- Integration testing
- System testing
- Alpha-testing
- Beta-testing

TESTING LEVELS

WHITE-BOX AND BLACK-BOX TESTING

- **Black box testing** is a software testing method in which the internal structure/design/implementation of the item being tested is not known to the tester.
- **White box testing** is a software testing method in which the internal structure/design/implementation of the item being tested is known to the tester. The tester chooses inputs to exercise paths through the code and determines the appropriate outputs.

SOFTWARE DEVELOPMENT

- Development is...
- Coder, developer, software engineer, programmer
- What is RUP
- Programming languages

TESTING

- Software testing is...
- QA engineer, QC specialist, QA automation engineer
- Testing levels
- White-box and Black-box testing

LET'S SUM UP!

USEFUL LINKS

- Расширение ED Translator
- Project Rational Unified Process - Georgia Tech - Software Development Process
- What is White Box Testing? Tutorial with Examples
- Programming as a Second Language | Steve McIntosh | TEDxYouth@Dayton
- You Should Learn to Program: Christian Genco at TEDxSMU
- A 12-year-old app developer | Thomas Suarez

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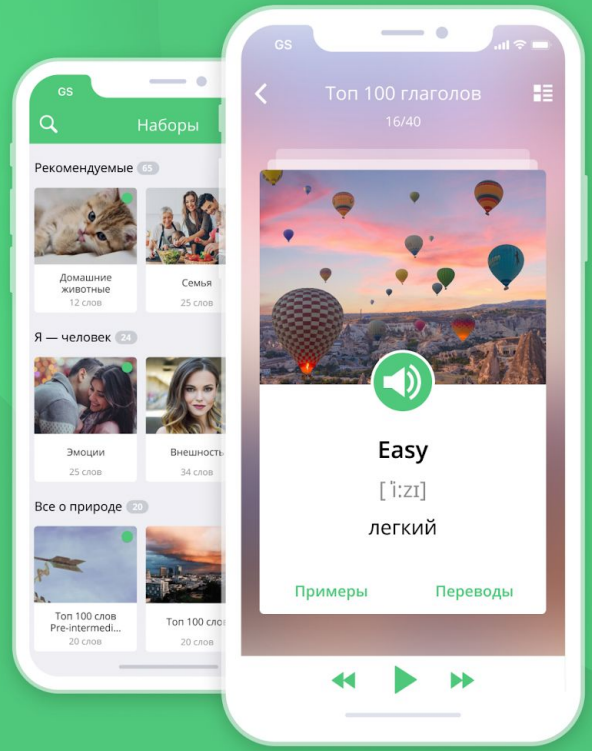

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НАЧАТЬ БЕСПЛАТНО

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THAT'S IT!