|  |  |
| --- | --- |
|  | Reference : <https://stackoverflow.com/questions/213958/new-features-in-java-7>  Java SE 7 [Features and Enhancements](http://www.oracle.com/technetwork/java/javase/jdk7-relnotes-418459.html) from JDK 7 Release Notes  This is the Java 7 new features summary from the [OpenJDK 7 features page](http://openjdk.java.net/projects/jdk7/features/):  vm JSR 292: Support for dynamically-typed languages (InvokeDynamic)  Strict class-file checking  lang JSR 334: Small language enhancements (Project Coin)  core Upgrade class-loader architecture  Method to close a URLClassLoader  Concurrency and collections updates (jsr166y)  i18n Unicode 6.0  Locale enhancement  Separate user locale and user-interface locale  ionet JSR 203: More new I/O APIs for the Java platform (NIO.2)  NIO.2 filesystem provider for zip/jar archives  SCTP (Stream Control Transmission Protocol)  SDP (Sockets Direct Protocol)  Use the Windows Vista IPv6 stack  TLS 1.2  sec Elliptic-curve cryptography (ECC)  jdbc JDBC 4.1  client XRender pipeline for Java 2D  Create new platform APIs for 6u10 graphics features  Nimbus look-and-feel for Swing  Swing JLayer component  Gervill sound synthesizer [NEW]  web Update the XML stack  mgmt Enhanced MBeans [UPDATED]  Code examples for new features in Java 1.7  -----------------------------  Try-with-resources statement  this:  BufferedReader br = new BufferedReader(new FileReader(path));  try {  return br.readLine();  } finally {  br.close();  }  becomes:  try (BufferedReader br = new BufferedReader(new FileReader(path)) {  return br.readLine();  }  You can declare more than one resource to close:  try (  InputStream in = new FileInputStream(src);  OutputStream out = new FileOutputStream(dest))  {  // code  }  ---------------------------------------  Underscores in numeric literals  int one\_million = 1\_000\_000;  -----------------------------------------  Strings in switch  String s = ...  switch(s) {  case "quux":  processQuux(s);  // fall-through  case "foo":  case "bar":  processFooOrBar(s);  break;  case "baz":  processBaz(s);  // fall-through  default:  processDefault(s);  break;  }  -----------------  Binary literals  int binary = 0b1001\_1001;  -------------------  Improved Type Inference for Generic Instance Creation  Map<String, List<String>> anagrams = new HashMap<String, List<String>>();  becomes:  Map<String, List<String>> anagrams = new HashMap<>();  -----------------------------------------  Multiple exception catching  this:  } catch (FirstException ex) {  logger.error(ex);  throw ex;  } catch (SecondException ex) {  logger.error(ex);  throw ex;  }  becomes:  } catch (FirstException | SecondException ex) {  logger.error(ex);  throw ex;  }  -----------------------------------  SafeVarargs  this:  @SuppressWarnings({"unchecked", "varargs"})  public static void printAll(List<String>... lists){  for(List<String> list : lists){  System.out.println(list);  }  }  becomes:  @SafeVarargs  public static void printAll(List<String>... lists){  for(List<String> list : lists){  System.out.println(list);  }  } |

------------------------

And nio package