# Date类

Java.util

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| --- | --- |
| 无参构造 | Public Date() |
| 有参构造 | Public Date(long date) |
| 转化为long型 | Public long getTime() |

范例:Date 和 long的转化

|  |
| --- |
| class test{  public static void main(String args[]) throws Exception{  //取得当前日期时间以long型返回  long cur = System.currentTimeMillis();  Date date = new Date(cur);  System.out.print(date);  System.out.print(date.getTime());  }  } |

# SimpleDateFormat日期格式化

Java.text

作用:将Date型的对象转化为String类型

方法:核心

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| --- | --- |
| 构造方法,需要传递转换格式 | public SimpleDateFormat(String pattern) |
| 将Date转化为String | Public final String format(Date date) |
| 将String转化为Date | Public Date parse(String source)  Throws ParseException |

**常见的转换单位:年(yyyy),月(MM),日(dd),时(HH,0~23),分(mm),秒(ss),毫秒(SSS)**

**范例:**

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| --- |
| class test{  public static void main(String args[]) throws Exception{  Date date = new Date();  SimpleDateFormat sf = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss.SSS");  String str = sf.format(date); //将Date转化为String  System.out.println(str);  String str1 = "1994-05-24 22:35:5.445";  Date date1 = sf.parse(str1); //将String转化为Date  System.out.print(date1);  }  } |

**注意:如果给定的字符串和转化的格式不符合会出现异常**

# Calendar抽象类

**Java.util**

**作用:**

Date和SimpleDate类两个往往是一起使用的,但是Calendar类是用来进行简单日期计算的

**定义:**

public abstract class Calendar

extends Object

implements Serializable, Cloneable, Comparable<Calendar>

**方法:**

|  |  |
| --- | --- |
| 返回本类对象 | public static Calendar getInstance() |
| 取得日历的年月日时分秒等 | public int get(int field) |

范例:

|  |
| --- |
| class test{  public static void main(String args[]) throws Exception{  Calendar cal = Calendar.getInstance(); //取得本类对象  StringBuffer buf = new StringBuffer();  buf.append(cal.get(Calendar.YEAR)).append("-");  buf.append(cal.get(Calendar.MONDAY)+1).append("-");  //buf.append(cal.get(Calendar.DAY\_OF\_MONTH)).append(" ");  //进行简单的计算3天后的时间  buf.append(cal.get(Calendar.DAY\_OF\_MONTH) + 3).append(" ");  buf.append(cal.get(Calendar.HOUR\_OF\_DAY)).append(":");  buf.append(cal.get(Calendar.MINUTE)).append(":");  buf.append(cal.get(Calendar.SECOND));  System.out.print(buf);  }  } |