

## calculateAge

```
/**
 * Calculates the age in years at the given point in time
 * out of a given birthday (as double)
 *
 * @param calendar_birthday
 * @param calendar_ageAtThisDate
 * @return
 */
function calculateAge (calendar_birthday, calendar_ageAtThisDate) {
    /* ===== */
    // IMPORTS
    importPackage(java.util);

    // prepare the data
    var yearOfBirth = calendar_birthday.get(Calendar.YEAR);
    var dayOfBirth = calendar_birthday.get(Calendar.DAY_OF_YEAR);
    var yearOfMeasuring = calendar_ageAtThisDate.get(Calendar.YEAR);
    var dayOfMeasuring = calendar_ageAtThisDate.get(Calendar.DAY_OF_YEAR);
    var maxDaysOfYear = calendar_ageAtThisDate.getActualMaximum(
        Calendar.DAY_OF_YEAR);

    // calculate the age
    var age = yearOfMeasuring - yearOfBirth;
    if (dayOfBirth < dayOfMeasuring) {
        /* The patient's birthday of this year way BEFORE the measuring.
         * => Calculate the year as floating number
         */
        age += (dayOfMeasuring - dayOfBirth) / maxDaysOfYear;
    } else if (dayOfBirth > dayOfMeasuring) {
        /* The patient's birthday of this year way AFTER the measuring.
         * => Calculate the year as floating number
         */
        age--;
        age += (dayOfMeasuring + maxDaysOfYear - dayOfBirth) / maxDaysOfYear;
    }

    return age;
    /* ===== */
}
```

From:

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Last update: **2019/12/09 10:19**



