

## manipulateChart

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/**
 * Manipulates the given chart. The chart is what you get
 * by inserting an diagram into the form editor.
 *
 * 1. Converts the measuring date into the Age of the patient.
 * 2. Centers the diagram on the data series graph.
 * 3. Clears the unnecessary graphs, so there would be shown.
 * 4. The age of the patient will be given in month or years,
 *    depending on the latest measuring date.
 *
 * NEEDED FUNCTIONS:
 * - changeGraphDateToPatientAge()
 * - calculateAge()
 * - clearSeriesOfDiagram()
 * - convertXValueFromYearsToMonth
 *
 * @param diagramToManipulate:
 * The diagram, that shall be manipulated
 *
 * @param dataGraphIndex:
 * The index of the graph containing the patient's data
 *
 * @param graphsToClear:
 * Those graph that shall not be shown
 */
function manipulateChart (diagramToManipulate, dataGraphIndex,
graphsToClear) {
    /* ===== */
    var plot = diagramToManipulate.getChart().getXYPlot();
    var dataGraphIndex = plot.getDataset().getSeriesCount() - 1;

    // converts the date to the age of the patient at this point of time
    var ranges = changeGraphDateToPatientAge(getBirthdayOfCurrentPatient(),
        diagramToManipulate, dataGraphIndex);

    if (ranges != null) {
        // centers the diagram on the data series
        plot.getDomainAxis().setRange(ranges[0].getLowerBound() - 0.25,
            ranges[0].getUpperBound() + 0.25);
        plot.getRangeAxis().setRange(ranges[1].getLowerBound() - 0.25,
            ranges[1].getUpperBound() + 0.25);
    }

    /* Clears the graphs of the boys, if the patient is a girl,
     * or the graph of the girls, if the patient is a boy.
     */
    var graphsToClear = new Array(dataGraphIndex / 2);
    var add;

```

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if ("male".equals(patient.getGender())) {
    add = 0;
} else {
    add = graphsToClear.length;
}

for (var i = 0; i < graphsToClear.length; i++) {
    graphsToClear[i] = i + add;
}

clearSeriesOfDiagram(diagramToManipulate, graphsToClear);

if (ranges != null && ranges[0].getUpperBound() < 5) {
    /* if the patients age at the latest measuring point is lower
     * than 5 years, convert the age from years to month, to give
     * a better overview.
     */
    convertXValueFromYearsToMonth(diagramToManipulate);

    // change the description at the x-axis
    plot.getDomainAxis().setLabel(plot.getDomainAxis().
        getLabel().replace("year", "month"));
} else {
    // change the description at the x-axis
    plot.getDomainAxis().setLabel(plot.getDomainAxis().
        getLabel().replace("month", "year"));
}
/* ===== */
}
```

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