

Príloha B

```
queue()
    .defer(d3.json, "/data")
    .await(makeGraphs);
function makeGraphs(error, recordsJson) {
    var records = recordsJson;
    records.forEach(function(d) {
        d["longitude"] = +d["longitude"];
        d["latitude"] = +d["latitude"];
        d["count"] = +d["count"];
        d["duration"] = +d["duration"];
    });
    var ndx = crossfilter(records);
//dimenzie
    var dropDim = ndx.dimension(function(d) { return d["drop"]; });
    var segmentDim = ndx.dimension(function(d) { return d["Segment"]; });
    var countDim = ndx.dimension(function(d) { return d["count"]; });
    var durationDim = ndx.dimension(function(d) { return d["duration"]; });
    var networkDim = ndx.dimension(function(d) { return d["Network"]; });
    var ageSegmentDim = ndx.dimension(function(d) { return d["age_segment"]; });
    var deviceIdDim = ndx.dimension(function(d) { return d["device_en"]; });
    var locationDim = ndx.dimension(function(d) { return d["location"]; });
    var allDim = ndx.dimension(function(d) {return +d["count"].toString().replace(/B(?=(\d{3})+(?!d))/g, ",");});
//group
    var dropGroup = dropDim.group().reduceSum(function(d) { return +d["count"]; });
    var segmentGroup = segmentDim.group().reduceSum(function(d) { return +d["count"]; });
    var networkGroup = networkDim.group().reduceSum(function(d) { return +d["count"]; });
    var ageSegmentGroup = ageSegmentDim.group().reduceSum(function(d) { return +d["count"]; });
    var deviceIdGroup = deviceIdDim.group().reduceSum(function(d) { return +d["count"]; });
    var locationGroup = locationDim.group().reduceSum(function(d) { return +d["count"]; });
    var countGroup = countDim.group();
    var durationGroup = durationDim.group();
    var all = ndx.groupAll();

    var groupc = ndx.groupAll().reduce(
        function(c, d) { c["count"] += d["count"]; return c; }, // when rows are added
        function(c, d) { c["count"] -= d["count"]; return c; }, // when rows are removed
        function() { return {total:0, count:0}; }
    );

    var groupb = ndx.groupAll().reduce(
        function(b, d) { b["duration"] += d["duration"]; return b; }, // when rows are added
        function(b, d) { b["duration"] -= d["duration"]; return b; }, // when rows are removed
        function() { return {total:0, duration:0}; }
    );
//grafy
    var numberRecordsND = dc.numberDisplay("#number-records-nd");
    var numberDuration = dc.numberDisplay("#number-duration");
    var dropChart = dc.rowChart("#drop-row-chart");
```

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var networkChart = dc.rowChart("#network-row-chart");
var segmentChart = dc.rowChart("#segment-row-chart");
var ageSegmentChart = dc.rowChart("#age-segment-row-chart");
var deviceIdChart = dc.rowChart("#device-Id-row-chart");
var locationChart = dc.rowChart("#location-row-chart");

```

numberRecordsND

```

    .group(groupc)
    .formatNumber(d3.format("d"))
    .toString().replace(/B(?=(\d{3})+(?!\d))/g, ",");
    .valueAccessor(function (x) { return x["count"]; });

```

numberDuration

```

    .group(groupb)
    .formatNumber(d3.format("d"))
    .valueAccessor(function(x) { return x["duration"]; });

```

dropChart

```

.width(300)
.height(100)
.dimension(dropDim)
.group(dropGroup)
.ordering(function(d,groupc) { return -d.value })
.colors(['#0000FF'])
.elasticX(true)
.title(function(d){return d["drop"];})
.label(function(d){
return d.key + " : " +(d.value / ndx.groupAll().reduceSum(function(d) { return +d["count"]; }).value() * 100).toFixed(0) + "%";
})
.xAxis().ticks(0);

```

segmentChart

```

.width(300)
.height(100)
.dimension(segmentDim)
.group(segmentGroup)
.ordering(function(d) { return -d.value })
.colors(['#0000FF'])
.elasticX(true)
.title(function(d){return d["Segment"];})
.label(function(d){
return d.key + " : " +(d.value / ndx.groupAll().reduceSum(function(d) { return +d["count"]; }).value() * 100).toFixed(0) + "%";
})
.xAxis().ticks(0);

```

networkChart

```

.width(300)
.height(100)
.dimension(networkDim)
.group(networkGroup)
.ordering(function(d) { return -d.value })
.colors(['#0000FF'])

```

```

.elasticX(true)
.title(function(d){return d["network"];})
.label(function(d){
return d.key + " : " +(d.value / ndx.groupAll().reduceSum(function(d) { return +d["count"]; }).value() * 100).toFixed(0) + "%";
})
.xAxis().ticks(0);

```

```

    ageSegmentChart
        .width(300)
        .height(150)
    .dimension(ageSegmentDim)
    .group(ageSegmentGroup)
    .ordering(function(d) { return -d.value })
    .colors(['#0000FF'])
    .elasticX(true)
    .title(function(d){return d["age_segment"];})
    .label(function(d){
return d.key + " : " +(d.value / ndx.groupAll().reduceSum(function(d) { return +d["count"]; }).value() * 100).toFixed(0) + "%";
})
    .labelOffsetY(10)
    .xAxis().ticks(0);

```

```

    deviceIdChart
        .width(300)
        .height(310)
    .dimension(deviceIdDim)
    .group(deviceIdGroup)
    .ordering(function(d) { return -d.value })
    .colors(['#0000FF'])
    .elasticX(true)
    .title(function(d){return d["deviceId"];})
    .label(function(d){
return d.key + " : " +(d.value / ndx.groupAll().reduceSum(function(d) { return +d["count"]; }).value() * 100).toFixed(0) + "%";
})
    .xAxis().ticks(0);

```

```

locationChart
    .width(310)
    .height(410)
    .dimension(locationDim)
    .group(locationGroup)
    .ordering(function(d) { return -d.value })
    .colors(['#0000FF'])
    .elasticX(true)
    .title(function(d){return d["location"];})
    .label(function(d){
return d.key + " : " +(d.value / ndx.groupAll().reduceSum(function(d) { return +d["count"]; }).value() * 100).toFixed(0) + "%";
})
    .labelOffsetY(10)
    .xAxis().ticks(0);

```

```

var map = L.map('map');
var drawMap = function(){

    map.setView([48.48,19.08],7); //SVK
    mapLink = '<a href="http://openstreetmap.org">OpenStreetMap</a>';
    L.tileLayer(
        'http://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', {
            attribution: '&copy; ' + mapLink + ' Contributors',
            maxZoom: 15,
        }).addTo(map);

    //Mapa
    var geoData = [];
    _.each(allDim.top(Infinity), function (d) {
        geoData.push([d["longitude"], d["latitude"], 1]);
    });

    var heat = L.heatLayer(geoData,{
        radius: 10,
        blur: 15,
        maxZoom: 1,
    }).addTo(map);

};
drawMap();

//aktualizuj mapu
dcCharts = [dropChart, segmentChart, networkChart, ageSegmentChart, deviceIdChart, locationChart];

_.each(dcCharts, function (dcChart) {
    dcChart.on("filtered", function (chart, filter) {
        map.eachLayer(function (layer) {
            map.removeLayer(layer)
        });
        drawMap();
    });
});

dc.renderAll();
};

```