# Blinking flashing increasing brightness of backlight in WRT

## Overview

This code snippet demonstrates how to control the backlight of a device on Symbian Web Runtime, using the SystemInfo Service API WRT version 1.0.

The API is supported from S60 3rd Edition, Feature Pack 2 onwards. It is also supported in select S60 3rd Edition, Feature Pack 1 devices or their newest firmware versions (for example, Nokia E90 Communicator, from v.210.34.75 onwards).

## Source

Embed the SystemInfo widget into the document:

```
<body>
    <embed type="application/x-systeminfo-widget" hidden="yes" />
</body>
```

Add three buttons to control the backlight:

```
<input type="button" onclick="lightOn();" value="Light on" />
<input type="button" onclick="blink();" value="Blink" />
<input type="button" onclick="lightOff();" value="Light off" />
```

The JavaScript code:

```
var sysInfo = null;

window.onload = init;

var SMOOTH = true;

function init() {
    // Obtain the SystemInfo object
    try {
        sysInfo = document.embeds[0];
    } catch (ex) {
        alert("SystemInfo object cannot be found.");
        return;
    }
}

// Switches the display light on
function lightOn() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    // Reset the backlight state to default
    resetLight();

    sysInfo.lighton(sysInfo.lighttargetsystem, sysInfo.lightinfiniteduration,
        sysInfo.lightmaxintensity, SMOOTH);
}

// Starts blinking the display
function blink() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    // Reset the backlight state to default
    resetLight();

    sysInfo.lightblink(sysInfo.lighttargetsystem,
        sysInfo.lightinfiniteduration, sysInfo.lightdefaultcycletime,
        sysInfo.lightdefaultcycletime, sysInfo.lightmaxintensity);
}

// Switches the display light off
function lightOff() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    sysInfo.lightoff(sysInfo.lighttargetsystem, sysInfo.lightinfiniteduration,
        SMOOTH);
}

// Sets the backlight of the display to default value
function resetLight() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    sysInfo.lighton(sysInfo.lighttargetsystem, sysInfo.lightinfiniteduration,
        sysInfo.lightdefaultintensity, SMOOTH);
```


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```
}
```

## Postconditions

Different possibilities to control the backlight are demonstrated.

## Supplementary material

For a complete example that makes use of the SystemInfo Service API to control the backlight, see Blinking flashing increasing brightness of backlight in WRT.zip


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