GlideDateTime Methods in ServiceNow

## Constructor

var gdt1 = new GlideDateTime(); // Current date & time  
var gdt2 = new GlideDateTime('2025-09-25 10:00:00'); // Custom datetime  
gs.info(gdt1.getDisplayValue());

## add()

var gdt = new GlideDateTime('2025-09-25 10:00:00');  
gdt.add(60 \* 60 \* 1000); // Add 1 hour (milliseconds)  
gs.info(gdt.getDisplayValue());

## addDaysLocalTime(days)

var gdt = new GlideDateTime('2025-09-25 10:00:00');  
gdt.addDaysLocalTime(5);  
gs.info(gdt.getDisplayValue());

## addDaysUTC(days)

var gdt = new GlideDateTime('2025-09-25 10:00:00');  
gdt.addDaysUTC(2);  
gs.info(gdt.getDisplayValue());

## addMonthsLocalTime(months)

var gdt = new GlideDateTime('2025-09-25');  
gdt.addMonthsLocalTime(2);  
gs.info(gdt.getDisplayValue());

## addMonthsUTC(months)

var gdt = new GlideDateTime('2025-09-25');  
gdt.addMonthsUTC(1);  
gs.info(gdt.getDisplayValue());

## addSecondsLocalTime(seconds)

var gdt = new GlideDateTime('2025-09-25 10:00:00');  
gdt.addSecondsLocalTime(120);  
gs.info(gdt.getDisplayValue());

## addSecondsUTC(seconds)

var gdt = new GlideDateTime('2025-09-25 10:00:00');  
gdt.addSecondsUTC(300);  
gs.info(gdt.getDisplayValue());

## compareTo(GlideDateTime)

var gdt1 = new GlideDateTime('2025-09-25');  
var gdt2 = new GlideDateTime('2025-09-20');  
gs.info(gdt1.compareTo(gdt2)); // 1, 0, -1

## equals(GlideDateTime)

var gdt1 = new GlideDateTime('2025-09-25');  
var gdt2 = new GlideDateTime('2025-09-25');  
gs.info(gdt1.equals(gdt2));

## getDate()

var gdt = new GlideDateTime('2025-09-25 10:15:00');  
gs.info(gdt.getDate());

## getDayOfMonth()

var gdt = new GlideDateTime('2025-09-25');  
gs.info(gdt.getDayOfMonth());

## getDayOfWeek()

var gdt = new GlideDateTime('2025-09-25');   
gs.info(gdt.getDayOfWeek());

## getDaysInMonthLocalTime()

var gdt = new GlideDateTime('2025-09-01');  
gs.info(gdt.getDaysInMonthLocalTime());

## getDisplayValue()

var gdt = new GlideDateTime();  
gs.info(gdt.getDisplayValue());

## getDisplayValueInternal()

var gdt = new GlideDateTime();  
gs.info(gdt.getDisplayValueInternal());

## getDuration()

var start = new GlideDateTime('2025-09-20 08:00:00');  
var end = new GlideDateTime('2025-09-25 10:00:00');  
var duration = end.subtract(start);  
gs.info(duration.getDisplayValue());

## getInternalFormattedLocalTime()

var gdt = new GlideDateTime('2025-09-25 15:30:00');  
gs.info(gdt.getInternalFormattedLocalTime());

## getLocalDate()

var gdt = new GlideDateTime();  
gs.info(gdt.getLocalDate());

## getLocalTime()

var gdt = new GlideDateTime();  
gs.info(gdt.getLocalTime());

## getMonth()

var gdt = new GlideDateTime('2025-09-25');  
gs.info(gdt.getMonth());

## getNumericValue()

var gdt = new GlideDateTime('2025-09-25');  
gs.info(gdt.getNumericValue());

## getTime()

var gdt = new GlideDateTime('2025-09-25 14:30:00');  
gs.info(gdt.getTime());

## getYear()

var gdt = new GlideDateTime('2025-09-25');  
gs.info(gdt.getYear());

## hasDate()

var gdt = new GlideDateTime('2025-09-25');  
gs.info(gdt.hasDate());

## hasTime()

var gdt = new GlideDateTime('2025-09-25 14:00:00');  
gs.info(gdt.hasTime());

## isValid()

var gdt = new GlideDateTime('abcd');  
gs.info(gdt.isValid());

## setDisplayValue()

var gdt = new GlideDateTime();  
gdt.setDisplayValue('2025-09-30 12:00:00');  
gs.info(gdt.getDisplayValue());

## setValue()

var gdt = new GlideDateTime();  
gdt.setValue('2025-10-05 09:00:00');  
gs.info(gdt.getValue());

## subtract(GlideDateTime)

var gdt1 = new GlideDateTime('2025-09-25 10:00:00');  
var gdt2 = new GlideDateTime('2025-09-23 08:00:00');  
var duration = gdt1.subtract(gdt2);  
gs.info(duration.getDisplayValue());

## getWeekOfYear()

var gdt = new GlideDateTime('2025-09-25');  
gs.info(gdt.getWeekOfYear());

## getValue()

var gdt = new GlideDateTime();  
gs.info(gdt.getValue());