

Date Time Picker

Purpose

The purpose of the date picker implementation within IML's Sakai was to maintain full control over language generation, and create constancy throughout various tool's date and time selection mechanisms.

Components

The main UI components of the implementation utilize 2 key components:

jQuery UI Datepicker

<http://jqueryui.com/datepicker/>

jQuery UI Timepicker Add-On

<http://trentrichardson.com/examples/timepicker/>

The Datepicker Implementation also makes use of a couple smaller scripts:

Moment - handles more complex string to date parsing

<http://momentjs.com/>

jQuery UI Touch Punch - tablet/touch support

<http://touchpunch.furf.com/>

Requirements

- jQuery v1.7+
- jQuery UI stylesheet for datepicker and slider
- Refer to <http://trentrichardson.com/examples/timepicker/> for additional styling rules

lang-datepicker.js

This javascript gets included on the page and makes the datepicker available for use. This file is a rollup of jQuery UI date picker and slider, time picker plugin, moment.js, and jQuery UI Touch Punch.

Usage

1) Add a text input on the page:

```
<input type="text" id="startdate" />
```

2) Add scripts and stylesheets to the page

```
<link href="/library/js/jquery/ui/1.9.2/css/smoothness/jquery-ui-1.9.2.custom.min.css"
rel="stylesheet" type="text/css" />
<script type="text/javascript" src="/library/js/jquery/1.8.3/jquery-1.8.3.min.js"></script>
<script type="text/javascript" src="/library/js/lang-datepicker/lang-datepicker.js"></
script>
```

3) Call `localDatePicker`, passing in configuration options in the form of an object literal.

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```
<script>
localDatePicker({
  input:"#startdate"
});
</script>
```

Options

When instantiating the date picker, you can pass several options telling the picker how to act. All options are passed in as properties of an object literal.

input - string | css selector

A CSS selector value targeting the input element you want to utilize as the date picker. An input with the id="startdate" would take datepicker's *input* option set to "#startdate".

useTime - bool

The picker will display with or without time slider controls.

val - string | date/time

Supply a default value to the date picker.

getval - string | css selector

Specify a form element to get the picker's default value from.

parseFormat | moment.js date/time format

Supply the datetimepicker with the date and time format to parse with.

<http://momentjs.com/docs/#/parsing/string-format/>

asHidden - object

Some tools receive dates on the backend via multiple form elements. *asHidden* takes an object literal of key/value pairs mapping the type of field (month, day, year, hour, minute, ampm) to an HTML input name. The date picker will auto-generate hidden form fields to submit with the form. A full *asHidden* settings object may look like this:

```
ashidden:{
  month:"retract_month",
  day:"retract_day",
  year:"retract_year",
  hour:"retract_hour",
  minute:"retract_minute",
  ampm:"retract_ampm"
}
```

altField - string | css selector

Specify an alternate field to set the date on. Useful for setting a hidden field with the whole date (not just parts of the date like *asHidden* does).

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duration - object

Currently only used in the Schedule tool, duration take 3 key/value pairs (hour, minute, update). hour and minute map to select menus, and update maps to a container element which will display the selected duration. Duration is calculated based on the date picker's selected time + the selected hours and minutes specified by the duration settings. A full duration object may look like this:

```
duration:{
  hour:"duHour",
  minute:"duMinute",
  update:"endtime"
}
```

Full Example Code

```
<!-- the input to apply picker to -->
<input type="text" id="retractDate" />

<!-- stylesheet and script includes -->
<link href="/library/js/jquery/ui/1.9.2/css/smoothness/jquery-ui-1.9.2.custom.min.css"
rel="stylesheet" type="text/css" />
<script type="text/javascript" src="/library/js/jquery/1.8.3/jquery-1.8.3.min.js"></script>
<script type="text/javascript" src="/library/js/lang-datepicker/lang-datepicker.js"></
script>

<!-- utilizing datepicker function -->
<script type="text/javascript">

localDatePicker({
  input:'#retractDate',
  useTime:1,
  getval:'input[type="hidden"][id*="retractDate"]',
  altField:'input[type="hidden"][id*="retractDate"]',
  val:"$retractDate",
  ampm:1,
  parseFormat: 'M/D/YYYY hh:mm a',
  ahidden:{
    month:"retract_month",
    day:"retract_day",
    year:"retract_year",
    hour:"retract_hour",
    minute:"retract_minute",
    ampm:"retract_ampm"
  },
  duration:{
    hour:"duHour",
```

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```
        minute:"duMinute",  
        update:"endtime"  
    }  
});
```

```
</script>
```