



pas2js als Anwender

JETZT BIN ICH JAVASCRIPT-ENTWICKLER!

Wie es dazu kam



2 Jahre später ...

- ▶ Jurtendachbeauftragter
- ▶ Packliste

Materialliste Sommerlager 2019

Bezeichnung		Bereit Gelegt	Ins Fahrzeug gepackt	Anmerkung
Großjurte (Küche)	6 Küchen-Doppelplanen 2m			
	2 Doppelplanen 2m			
	16 Metallstangen			
	16 Heringe			
	16 Abspannschnüre			
	Großjurten-Dach			Besondere Kontrolle durch den Dachbeauftragten
	Großjurten-Talar			
	1 Spinne			
	1 Rolle			
	2 Seile (ggf. reicht 1)			



Das geht doch auch
Smart(-phone)?!

pas2js – Die Antwort!

► Benötigt

- Aktueller Compiler (3.0.4 oder neuer)
- pas2js Design Package
- Aktuelle FPC-Quelltexte (trunk)
- pas2js-Repository
- pas2js.cfg

```
-FuC:\SAM\Entwicklung\projects\fpc_trunk\pas2js\packages\*  
-FuC:\SAM\Entwicklung\projects\fpc_trunk\fpcsrc\utils\pas2js\dist  
-FiC:\SAM\Entwicklung\projects\fpc_trunk\fpcsrc\utils\pas2js\dist
```

IDE- und Projekteinstellungen

The image shows two overlapping dialog boxes from an IDE. The background dialog is 'IDE-Einstellungen' (IDE Settings), and the foreground dialog is 'Einstellungen für Projekt: packliste' (Settings for Project: packliste).

IDE-Einstellungen (Background):

- Left sidebar: A tree view with categories like 'Umgebung' (Environment), 'Editor', and 'Anzeige' (Display). 'Pas2JS' is selected under 'Umgebung'.
- Right pane: Configuration fields for 'pas2js.exe' (Path: C:\SAM\Entwicklung\projects\fpj_trunk\3.3.1\bin\x86_64-win64\pas2js.exe), 'simpleserver.exe' (Path: \$MakeExe(IDE,simpleserver)), 'Port numbers to start allocating from simpleserver.exe' (4000), 'Browser to use when opening HTML page' (\$MakeExe(IDE,firefox)), and 'Node.js executable' (\$MakeExe(IDE,nodejs)).
- Bottom: 'Hilfe' (Help) button.

Einstellungen für Projekt: packliste (Foreground):

- Left sidebar: A tree view for project settings, including 'Projekteinstellungen' (Application, Forms, FPDoc-Editor, Session, Version information, Resources, i18n, Miscellaneous, Web Project (pas2js)), 'Compilereinstellungen' (Paths, Configuration and Goals, Parsing, Compiling and Linking, Debugging, Verbosity, Messages, User-defined settings, Additions and Influences, Compiler Commands), and a checkbox 'Diese Compilereinst. als Vorgabe' (Use these compiler settings as default).
- Right pane: 'Benutzerdefinierte Einstellungen' (User-defined settings) with a list: -Jeutf-8, -Jc, -Jm-, -Jrtl.js. Buttons: 'Alle Einstellungen ...' (All settings ...), 'Definitionen ...' (Definitions ...), '-FcUTF8 hinzufügen' (Add -FcUTF8). Below is a 'Bedingungen:' (Conditions) section with a code editor showing conditional compilation logic for Mac OS X and Windows.
- Bottom: 'Hilfe' (Help), 'Einstellungen anzeigen' (Show settings), 'Test', 'Export ...', 'Import ...', 'OK', and 'Abbrechen' (Cancel) buttons.

```
unit jquery.mobile;

{$mode objfpc}
{$modeswitch externalclass}

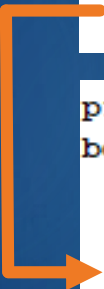
interface

uses
  JS, Classes, SysUtils, Web, libjquery;

type
  TjQueryMobile = class external name '$.mobile' (TJSObject)
  public
    function changePage(_to: String): JSValue; overload;
    function changePage(_to: String; options: TJSObject): JSValue; overload;
    function back(): JSValue;
  end;

var
  mobile: TJQueryMobile; external name '$.mobile';
```

```
procedure TJQueryMobilePage.Show;
begin
  if Self.ID = '' then
    raise Exception.Create('Empty Page ID.');
```



```
  mobile.changePage('#'+Self.ID);
end;
```

Externe Klassen und Objekte

```

var
  h2, p, lblInput: TJSHTMLElement;
begin
  Inherited CreateDOMTree;

  h2 := TJSHTMLElement(document.createElement('h2'));
  h2.textContent := 'Name';
  Main.appendChild(h2);

  p := TJSHTMLElement(document.createElement('p'));
  p.textContent := 'Bitte gib deinen Namen ein. Dann weiß jeder, wer was eingepackt hat.';
  Main.appendChild(p);

  lblInput := TJSHTMLElement(document.createElement('label'));
  lblInput['for'] := 'edtLoginname';
  lblInput.textContent := 'Name:';
  Main.appendChild(lblInput);

  edtLoginname := TJSHHTMLInputElement(document.createElement('input'));
  edtLoginname['type'] := 'text';
  edtLoginname['name'] := 'edtLoginname';
  edtLoginname['value'] := Application.LoginName;
  edtLoginname.id := 'edtLoginname';
  Main.appendChild(edtLoginname);

  btnLogin := TJSHTMLElement(document.createElement('a'));
  btnLogin.id := 'btnLogin';
  btnLogin.classList.add('ui-btn', 'ui-corner-all', 'ui-icon-check', 'ui-btn-icon-left');
  btnLogin.textContent := 'Name speichern';
  btnLogin.onclick := @btnLogin_Click;
  Main.appendChild(btnLogin);

```

HTML-Elemente erzeugen

Events

```
type
  TModePage = class(TJQueryMobilePage)
  public const
    PAGE_ID = 'packmode';
    PAGE_NAVTARGET = '#' + PAGE_ID;
  private
    btnModeProvide: TJSHtmlInputElement;
    btnModeLoad: TJSHtmlInputElement;
    function btnModeLoad_onclick(aEvent: TJSMouseEvent): boolean;
    function btnModeProvide_onclick(aEvent: TJSMouseEvent): boolean;
  protected
    procedure CreateDOMTree; override;
  end;
```

```
var
  ModePage: TModePage;
```

```
implementation
```

```
{ TModePage }
```

```
function TModePage.btnModeProvide_onclick(aEvent: TJSMouseEvent): boolean;
begin
  PacklistPage.Mode := pmProviding;
  PacklistPage.Show;
end;
```

```
procedure TModePage.CreateDOMTree;
begin
  inherited CreateDOMTree;
  btnModeProvide := TJSHtmlInputElement(document.createElement('a'));
  btnModeProvide.textContent := 'Bereitstellen';
  btnModeProvide.classList.add('ui-btn', 'ui-corner-all', 'ui-btn-icon-top', 'ui-icon-boxprovide', 'ui-button-mode');
  btnModeProvide.onclick := @btnModeProvide_onclick;
  Main.appendChild(btnModeProvide);
```

Demo und Diskussion