



Rapid Ext JS

Finally an IDE for the Web?



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MVP





GITHUB PROJECTS



github.com/paolo-rossi



Delphi JWT

JSON Web Token Library



WiRL

REST Library for Delphi



Linux Daemon

Real Linux daemons



Delphi Neon

JSON Serialization Library



OpenAPI-Delphi

OpenAPI 3.0 Library



NATS Delphi

NATS Client Library for Delphi



AGENDA

- **State of Web Development - 2023**
 - ◆ Frameworks, frameworks, frameworks
 - ◆ How to choose
- **Challenges of web development for a backend dev**
- **Ext JS: present & future**
 - ◆ Ext JS roadmap
- **Rapid Ext JS: an introduction**
 - ◆ It's a beta!!



Web Development

State of Web Development - 2023

1



HOW TO CHOOSE

- First think of what you are building
 - ◆ Static site
 - ◆ Static site with a lot of pages depending on some data
 - ◆ General purpose dynamic website/app
 - ◆ ERP-like web application



CSS FRAMEWORKS

- Bootstrap
- Tailwind CSS
- Foundation
- Bulma
- Blaze UI
- Open Props
- ...



STATIC SITE GENERATOR

- Eleventy
- Jekyll
- Hugo
- Astro
- Gridsome
- Gatsby
- ...



JS FRAMEWORKS

- React
- Angular
- Vue.js
- Svelte
- jQuery
- ...
- Ext JS



WEB DEV TRENDS 2023

- Progressive Web Apps (PWA)
- AI for web development... kinda makes sense to me...
- Single-page applications (SPA)
- SSR or ISR over CSR
- Dark Mode standardization
- Chatbots and virtual assistants
- WebAssembly
- Cloud-based development and deployment



Challenges

Challenges of web development for a backend dev

2



CHALLENGES

- Writer's block syndrome
- No IDE/Form Designer to help you through it
- Constant shifting of tools and libraries
- No bird's view of widgets and classes you can use
- The result can be a fairly simple UI
- You have to use a multitude of tools in your development phase



UI

- No Form Designer to rely on
- You have to “visualize” the UI in your code
 - ◆ It’s not that difficult but...
- You have to switch back and forth between the documentation and the code
- After a while you notice that you are using only a small number of widgets to build your UI
 - ◆ Innovation slows down



DFM vs. JSON

- IDE: VSCode
- Sencha: Form Designer + Object inspector
- (Spostarlo in Rapid Ext JS)



Ext JS

Ext JS: present & future

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EXT JS

- JavaScript Library to develop single page apps (and PWAs)
 - ◆ ERP-like Apps
 - ◆ Utility Apps
 - ◆ Industrial automation apps
 - ◆ ...
- I would not use Ext to build general-purpose websites, or semi-dynamic sites
 - ◆ Probably just Bootstrap or Foundation and some plain JavaScript



EXT JS ROADMAP

→ In Development Now

- ◆ Quality enhancements for Ext JS Modern & Classic
- ◆ Ext JS Modern to Ext JS Classic parity features
- ◆ CMD improvements
- ◆ Sencha Eclipse Plugin, Sencha JetBrains Plugin and Sencha Visual Studio Code Plugin in sync with the latest IDE and Ext JS version



EXT JS ROADMAP

→ Coming Up Next

- ◆ Additional Grid features
- ◆ Enhancements to the localization support
- ◆ More ECMA support for CMD compiler
- ◆ Support for higher Java versions, such as Java 17 for CMD



EXT JS ROADMAP

→ Rapid Ext JS

- ◆ Focus on ease of use
- ◆ Support for latest VS Code version
- ◆ User experience enhancements
- ◆ Add more templates for getting started with new application
- ◆ Provide Undo/ Redo feature for design view
- ◆ Improvements to Sencha Toolbox Feature
- ◆ Component Hierarchy View Improvements
- ◆ Documentation and getting started guide



EXT JS ROADMAP

→ Coming Up Later

- ◆ Accessibility improvements
- ◆ Enhancements to Grid features

→ Rapid Ext JS

- ◆ Quality enhancements on Rapid Ext JS (VS Code Extension)
- ◆ Extend support for easy migration from Sencha Architect to Rapid Ext JS



Rapid Ext JS

An introduction

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RapidExt JS

download & try the beta!

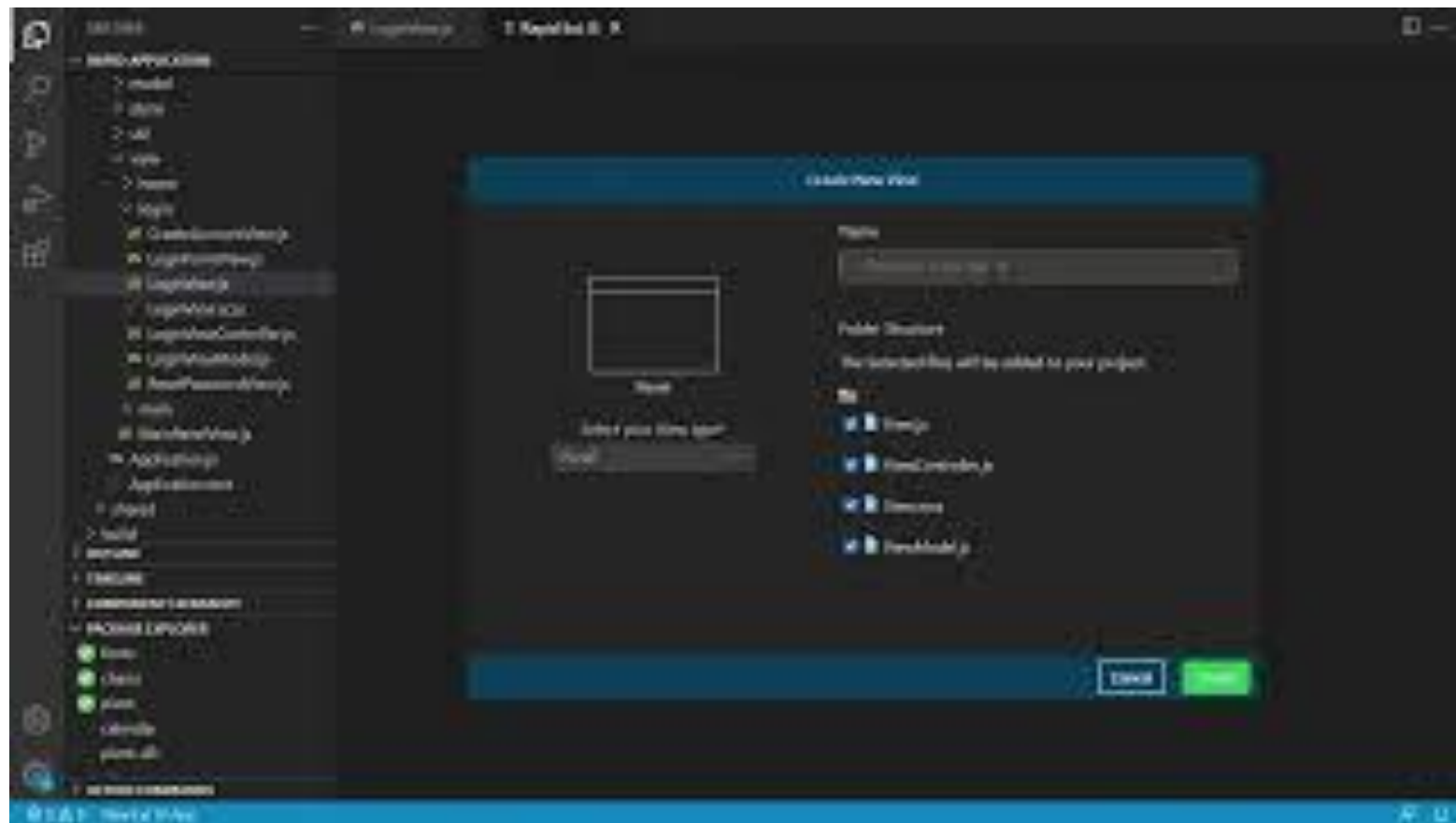




- VS Code Extension to Speed Up the Development of Web Apps
- Create powerful Sencha web apps in less time with the same code efficacy
- Support for Windows, macOS, and Linux



Rapid Ext JS





FEATURES



View Modes

- Code view
- Design view
- Split view (code and design displayed)



Zooming

- Zoom in (up to 500%)
- Zoom out (up to 25%)
- Reset



Sencha Toolbox Reposition

- Right of the design view
- Left of the design view
- Below the design view



FEATURES



Action Commands

- Restart watch
- Stop watch
- Run build
- Build dynamic packages



Color Themes

- Light
- Solarized light
- Dark
- Abyss
- And many more!



UX Components

- Grid
- Buttons
- Panel
- Data view
- Carousel
- Menu
- Slider



TOOLS



Create New Ext JS Application

Easily open an existing application or create one by filling out a simple form. In the form, you can enter the application name, the path to generate the app, the theme, template, toolkit, Ext-gen version, and packages. A sample application will be generated based on your selections.



Powerful Toolbox

The Sencha Toolbox provides a list of components and configurations. Adding components to the canvas is as easy as dragging them from the toolbox. By binding events and assigning functions to the desired component, the design and code views will automatically reflect changes as you type.



Screen Resolution Selector

You can choose from 15 different device screen resolutions or set your custom screen width and height and observe how components will appear at these resolutions.



TOOLS



Package Explorer

Package Explorer has standard and premium packages for download and installation. You may manually install packages or use the one-click installer.



Component Hierarchy

Component hierarchy holds the tree structure of the component from parent to child.



New View Generator

Easily generate a panel, container, tab panel, or grid view. The folder structure will be autocreated along with the associated View, ViewModel, ViewController, and SCSS files.



AN IDE FOR THE WEB?

- Technically the IDE is VSCode
- Rapid Ext JS is a “Form Designer” + “Object Inspector” + ...
- In Ext JS you build a UI writing manually the... DFM (JSON)
 - ◆ Sort of...



THANK YOU