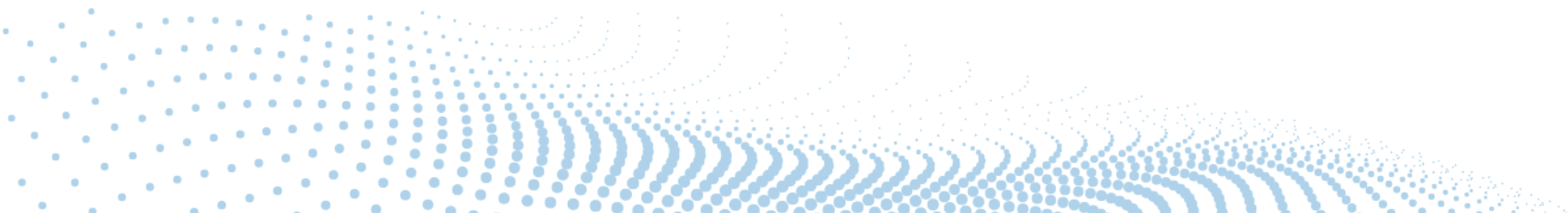


The future of
app development.

18 + 19 May | Dusseldorf

ODC 2022

Omnis Developer Conference





Make-Up your App

Jeremy Jeffereis and Andreas H. Pfeiffer

Make-Up your App

A good design makes a selling point

"My user wants to have every information available on one form."

What can we do to clean up our UI without leaving out any of the information that are important?

Ident

Name

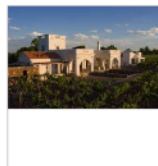
Phone

Address

Zip City

State

Country



save

Contacts

Id...	Cu...	Name	First Name	Phone	E-Mail
2	1	Wrist	Max		
117	1	Gallip	Mike	7324	Gallip.Mike@lift.com
149	1	Tafirout	Reda	7579	Tafirout.Red@lift.com
201	1	Holiness	Fiona	7476	Holiness.Fiona@lift.com
582	1	Goko	Tatsuo	6588	Goko.Tatsuo@lift.com
594	1	Chandradas	Fern	7433/VM...	Chandradas.Fern@lift.c...
603	1	Kalia	Dennis	Page	Kalia.Dennis@lift.com
702	1	Bi	Ling	604-314-7...	BLing@lift.com
740	1	Zhu	Alice	6464	Zhu.Alice@lift.com
815	1	Kellogg	Scott	6248	Kellogg.Scott@lift.com

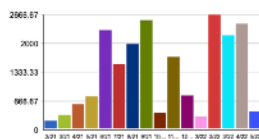
Invoices

Inv...	Cu...	Date	Total
1	1	Thu Feb 04 202...	192,93
2	1	Thu Mar 04 202...	323,01
3	1	Sun Apr 04 202...	576,04
4	1	Tue May 04 202...	756,52
5	1	Fri Jun 04 2021 ...	2293,42
6	1	Sun Jul 04 2021...	1514,81
7	1	Wed Aug 04 202...	1980,99
8	1	Sat Sep 04 2021...	2537,12

Products

CHARDONNAY	Among the most famous types of white wine we cannot fail to	
CABERNET SAUVIGNON	Among the most important red wine types, Cabernet Sauvignon,	
MERLOT	Among the most important types	

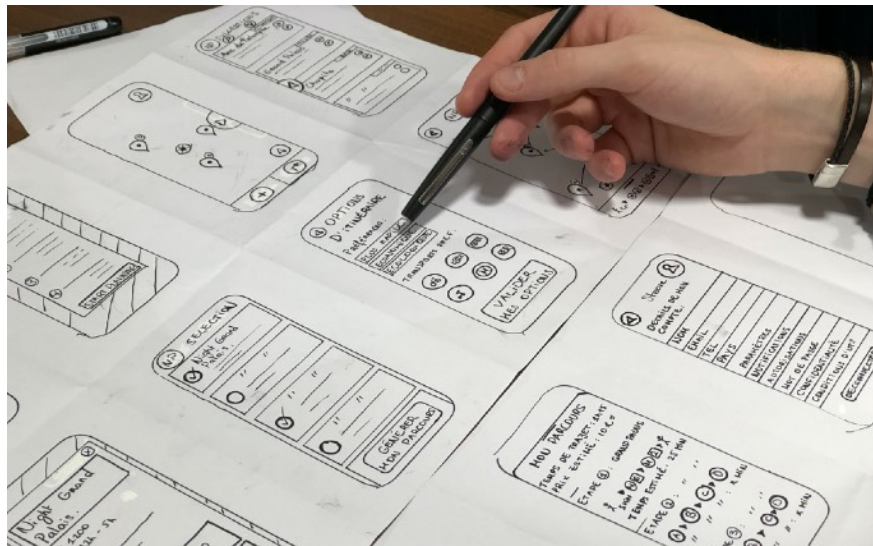
Revenue



Design Principles

10 items that make a difference

- Scale/Visual Hierarchy
- White space
- Typography
- Alignment
- Contrast
- Color
- Simplicity
- Responsiveness
- Consistency
- Delight and Enjoy



Scale/Visual Hierarchy

for an uncluttered interface

- Allow the user to read most important information first
- Group fields that belong together by creating more white space between the groups to create separation.

Main title

sub title might give more explanation

Name

First name

Address

City



White Space

creates separation and hierarchy

Main title

sub title might give more explanation

Name

First name

Address

City

without padding

with padding



Typography

for a clean typeface

- It is most save to stick with **one sans serif font only**.
- Use different font sizes and font weights to create visual hierarchy between title, subtitle and body text.
- Use a much larger font for the title.

Main title

sub title might give more explanation

Name

First name

Address

City



Alignment

makes your design cleaner

- Align components using a **column design**.
- **Left alignment** is much easier to accomplish than center or right alignment.
- Place labels **above** the entry fields.

Company

name	company
<input type="text" value="name"/>	<input type="text" value="company"/>
first name	city
<input type="text" value="firstName"/>	<input type="text" value="city"/>
title	address
<input type="text" value="title"/>	<input type="text" value="address"/>

Contrast

for better readability

- WCAG 2.0:
 - A (minimal)
 - AA (mid-range): 4.5:1 ratio between foreground and background.
 - AAA (highest).
- Text requires AA minimum.
- Less important components such as borders should have low contrast.

Can you read this?

Can you read this?

Can you read this?

Can you read this?

Can you read this?

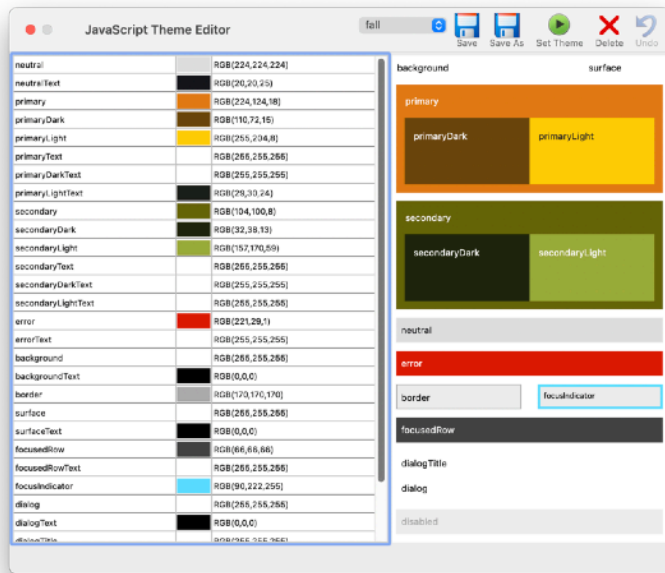
Can you read this?



Color gives your brand an identity

Color gives your brand an identity

- Find a matching primary (and secondary color).
- Use it **sparingly** (60-30-10 rule).
- Omnis will help you with the Color Themes.
 - Change your theme with Cmd/Ctrl-J
 - Maintain and create new themes using the JavaScript Theme Editor (Tools - Add Ons - Omnis Web Client Tools).



JavaScript Theme Editor

Simplicity

for a clean user interface

- Make sure each remote form/window is responsible for one task only. **Do not clutter your form** with too many fields.
- Minimise the number of fields that are shown at the very same time.
- Hide unnecessary features.
- Remove borders with high contrast.

The image shows a user interface for a 'Company' form. The title 'Company' is in orange. The form is organized into two columns. The left column contains three text input fields: 'name', 'first name', and 'title'. The right column contains a dropdown menu for 'company', a text input field for 'city', and a larger text input field for 'address'. All fields have a light gray border and no background color. The labels are in a small, dark gray font above each field.

Responsiveness

run it on any device

- Take care about different screen sizes.
- You can use Layout Breakpoints to support different layouts for mobile devices and desktop browsers.
- Use \$edgefloats with containers to support intermediate device sizes.



Consistency

for a better user experience

- Ensure that your fields and labels, buttons and other components always look the same.
 - Tip: Use `$fieldstyles` with custom properties for `$width` and `$height`.
- Use icons from the same source and style.
- Provide feedback.

Vacation Schedule

2022

▼

Cessford, Jamie

▼

⬇️

Appointments

🖨️

Print

From	Until	Days
28/12/2021	07/01/2022	5

Leave Days Sum

5

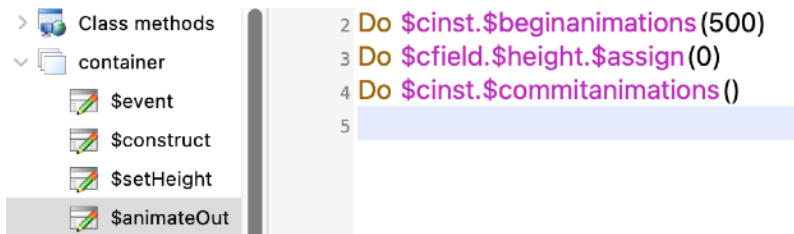
Leave Days Rest

25

Delight and Enjoy

for the little extra

- Surprise but don't overdo it.
- Subtle animations only.



What is wrong here?

Ident

Name



Phone

Address

Zip City

State

Country




Contacts

Ide..	Cu...	Name	First Name	Phone	E-Mail
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117	1	Gallop	Mike	7324	Gallop.Mike@lift.com
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582	1	Goko	Tatsuo	6588	Goko.Tatsuo@lift.com
594	1	Chandradas	Fern	7433/VM-...	Chandradas.Fern@lift.c...
603	1	Kalia	Dennis	Page	Kalia.Dennis@lift.com
702	1	Bi	Ling	604-314-7...	Bi.Ling@lift.com
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815	1	Kellogg	Scott	6248	Kellogg.Scott@lift.com

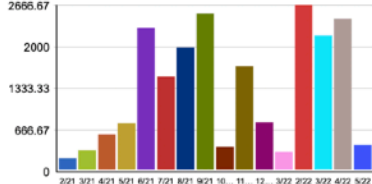
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Products

CHARDONNAY	
Among the most famous types of white wine we cannot fail to	
CABERNET SAUVIGNON	
Among the most important red wine types, Cabernet Sauvignon,	
MERLOT	
Among the most important types of red wine, Merlot, Cabernet	

Revenue



Now let us convert this form using the design rules!



Implementation on Mobile Devices

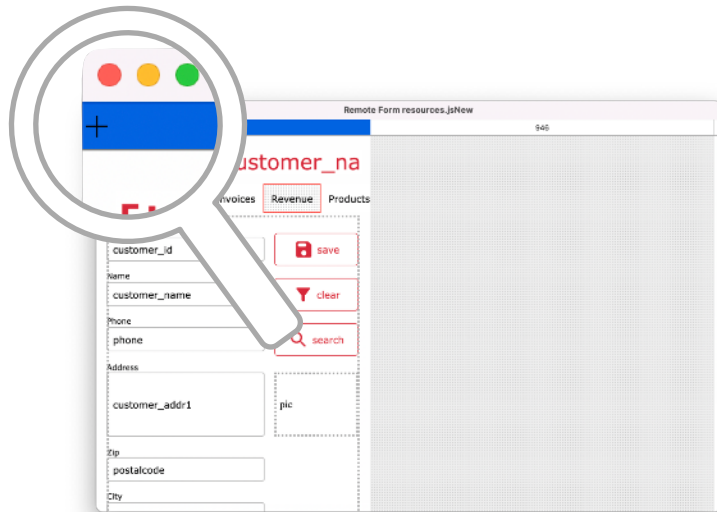
Now that we've learned how to design well, let's see how to implement those designs on a mobile device.



Designing For Mobile

for a cleaner mobile view

- Omnis RFs can be designed for multiple screen sizes.
 - Screen sizes = 'Layout Breakpoints'
 - Breakpoint number is the horizontal pixel length of screen.
 - Chooses largest breakpoint less than or equal to the display width.
 - Default sizes are 320 and 768 but the '+' button lets you choose your own.



Wrapper Overview

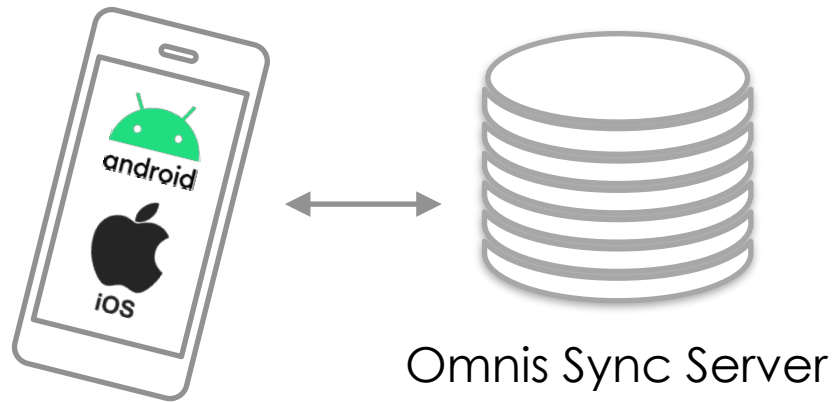
for taking it from Omnis to the mobile device

- JavaScript Wrapper turns Omnis apps into mobile apps.
- Wrappers run outside of Omnis in the IDE of the given mobile OS.
- There are two different wrappers depending on the mobile device.
 1. **Android Wrapper** - Used in Android Studio.
 2. **iOS Wrapper** - Used in Xcode.



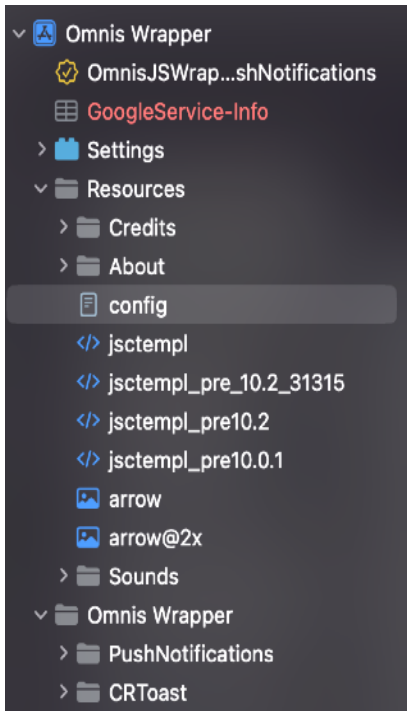
Serverless, Offline Mode and Sync Server for app usage outside of internet connection

- The wrapper comes with many features, one of which is 'offline mode'.
- Offline mode lets apps run even when there's no internet.
- Sync Server is an Omnis tool that lets you manage a central database as well as how specific users can interact with it.



Using The Wrapper

straightforward, user-friendly, easy to understand



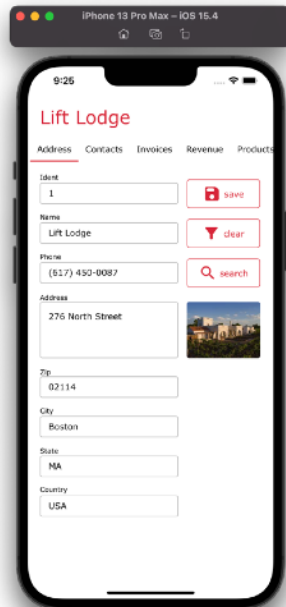
- The wrapper is extremely easy to use; no experience required.
- In **Online Mode** there are only two settings that we need to run it:
 - **WebServerURL:** URL to the Server. `http://<IP address>:<Omnis Port>`
 - **OnlineForm:** Path to the form's .htm file from WebServerURL. On built in Omnis server, it will have the form `/jschtml/myform.htm`.
- In **Offline Mode** there are three additional settings we need as well:
 - **StartInOfflineMode:** Whether the app should initially start in offline mode (set to 1), or online mode (set to 0).
 - **OfflineFormName:** Name of the offline form with no .htm extension
 - **AppSCAFName:** Name of SCAF. Lowercase library name.



How It Works

putting it all together

- All you need to do is set the previous settings and simply hit Build.
- It will then automatically run the app on a simulated iPhone.
- The wrapper loads the application from .htm forms in the 'html' folder in AppData.
- In offline mode the SCAF is used to store and load the application.



Branding And App Store

brand the app and upload it to the app store

- **Brand the name** of your app with your companies name with the following steps:
 - Once you have the app finished you can submit it to the **App Store**.
 - Google **Play Store** is much easier and approves based on if it violates terms of service.
 - Apple App Store is much more stringent and approves of native feel.





Thank you!