

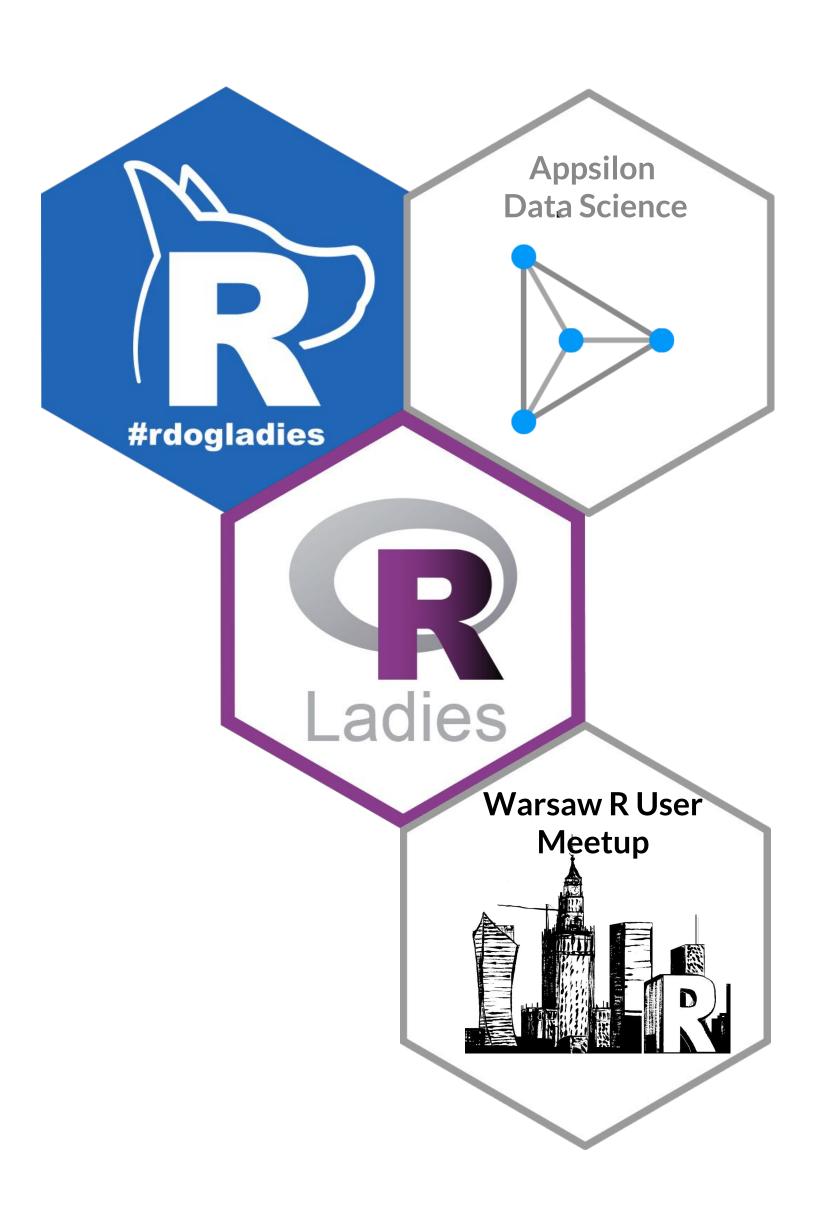
Taking inspirations from proven frontend frameworks to add to Shiny with 4 new packages

Olga Mierzwa-Sulima Senior Data Scientist @olga_mie @AppsilonDS



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@olga_mie
@AppsilonDS

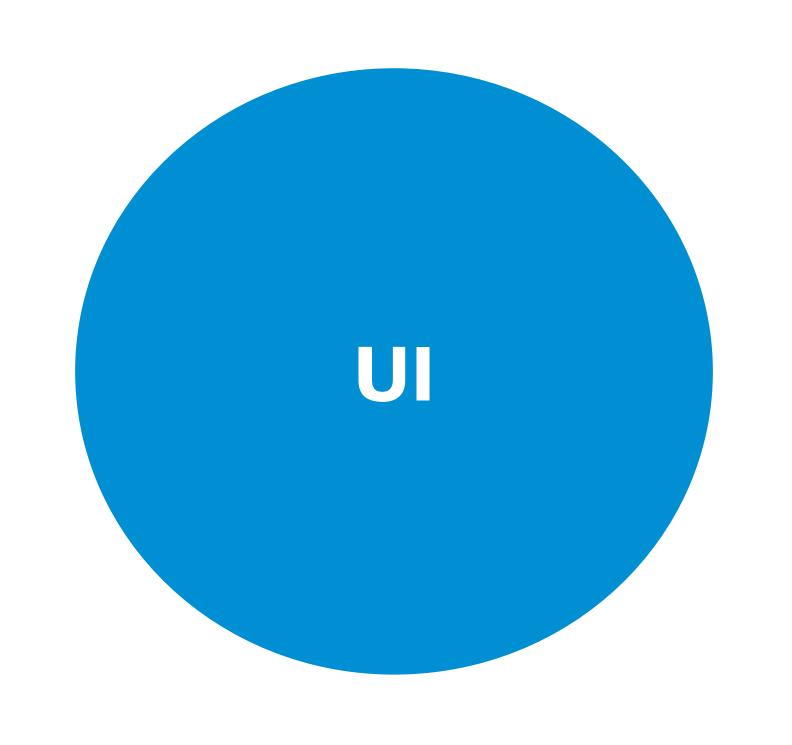


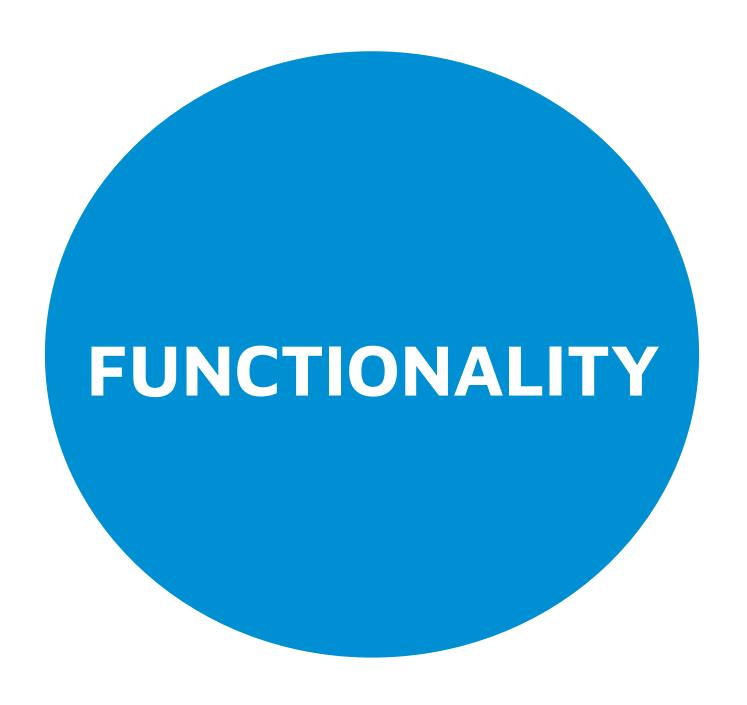
SHINE BRIGHTER



USEFUL TOOLS

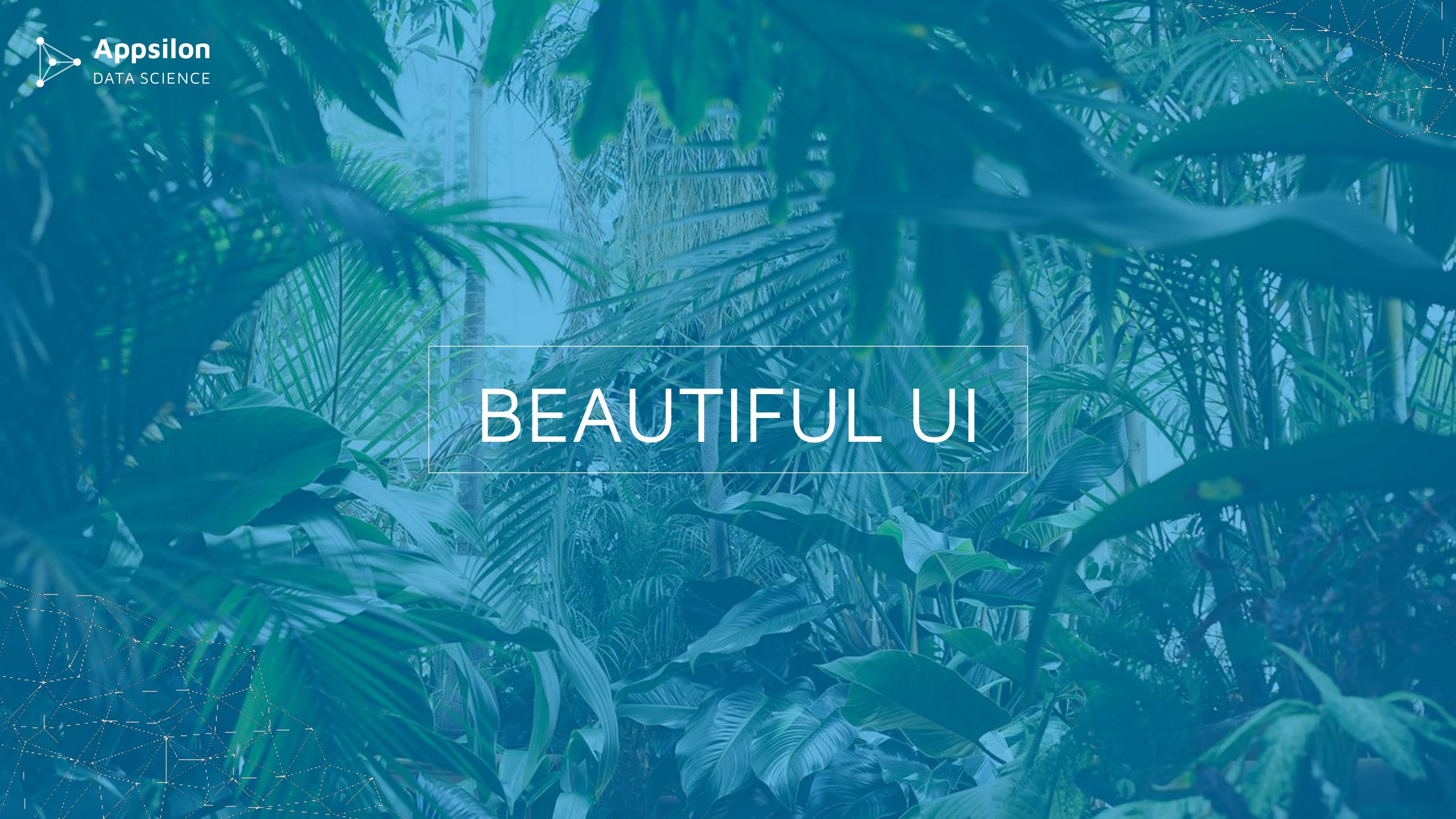
















shiny.semantic PROVENIN BATTLE

Package: shiny.semantic - appsilon.github.io/shiny.semantic

R package available on CRAN and GitHub

install.packages('shiny.semantic')
devtools::install_github('Appsilon/shiny.semantic')

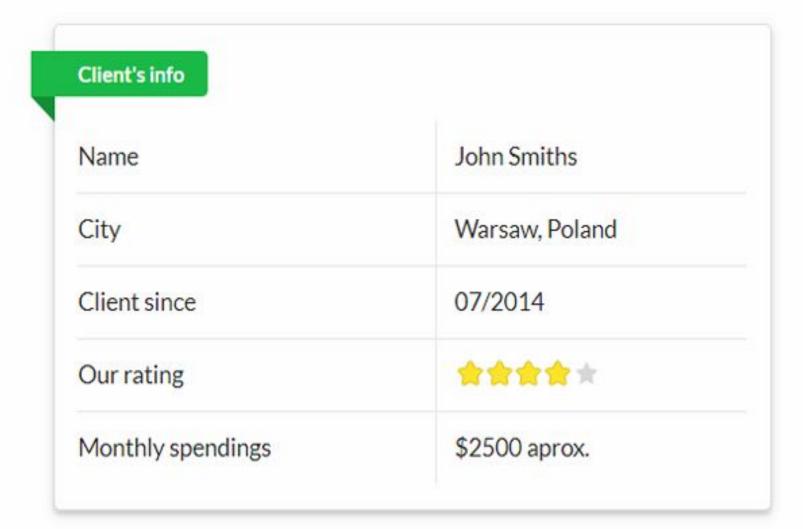
- Package for SemanticUI components
- Alternative to currently available Bootstrap
- Domain specific language wrapping HTML tags



shiny.semantic PROVENIN BATTLE

- Downloads and imports **Semantic UI CSS** classes
- Enabling the user to define Shiny (text) inputs
- Contains ready to use pre-defined more complex elements as R functions
- Components demo.appsilondatascience.com/shiny-semantic-components/





Calls history Show 10 ▼ entries Search: Date Topic Consultant 2017-11-28 Connection problem Kate Lees 2017-11-29 New plan You Resume services Mike Bradley 2017-12-04 2017-12-13 Suspension of service Kate Lees Showing 1 to 4 of 4 entries Previous Next

Convert to 'Pay as you go' plan

Estimated reduction

33% cost reduction based on historical data

+ Proceed

Offer health insurance

Upselling opportunity

Clients of following profile are 2 times more likely to accept our health insurance plan

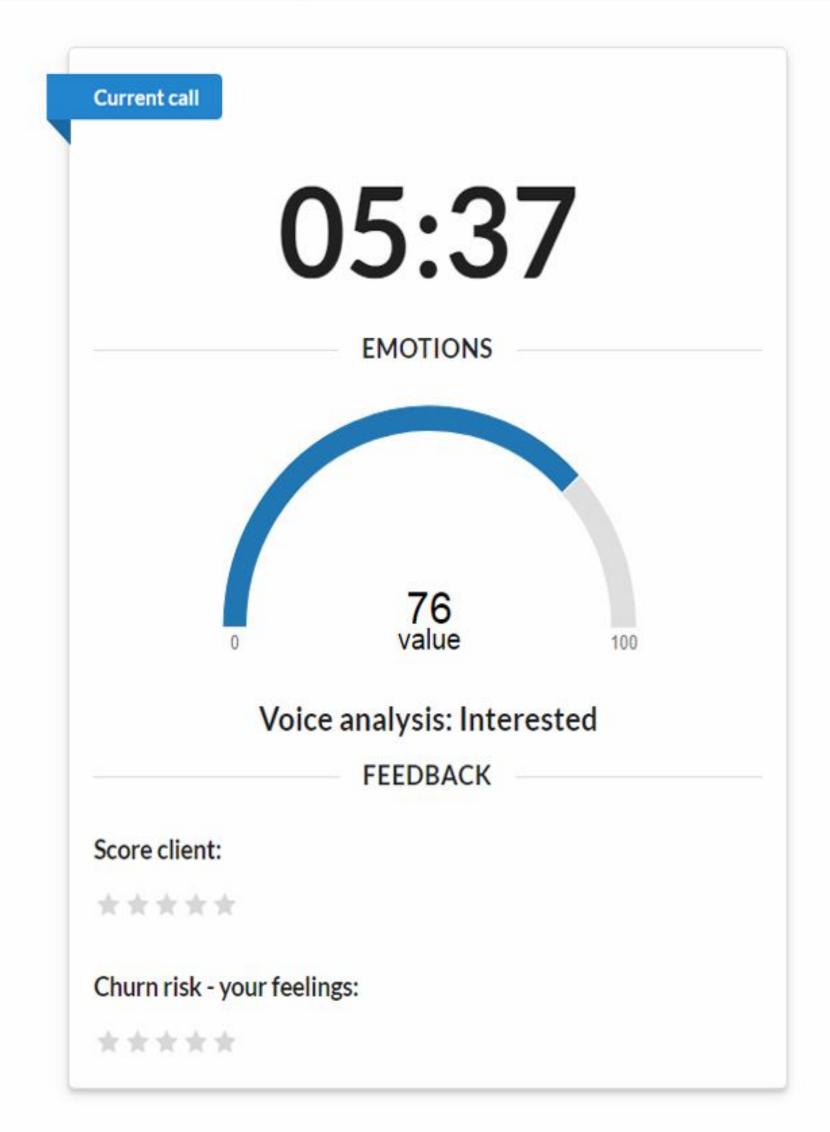
+ Proceed

Sell credit card for spouse

Upselling opportunity

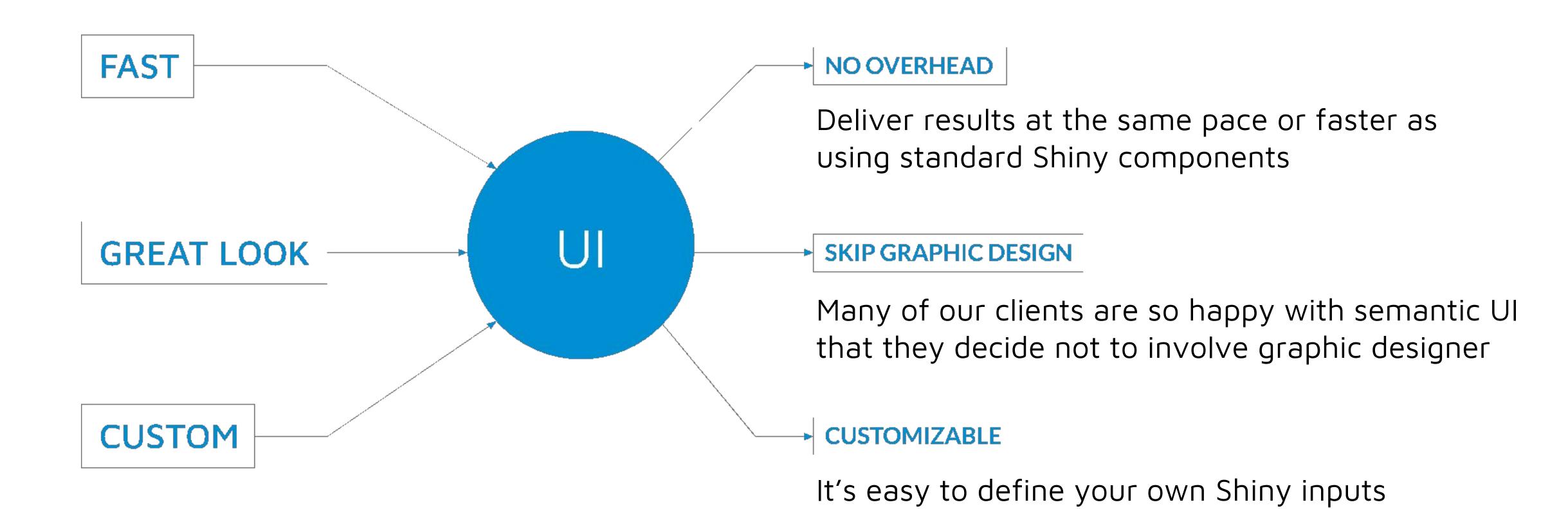
Accounts used by familiy members are likely to accept additional card and increase number of transactions.

+ Proceed





User Interface using shiny.semantic







semantic.dashboard NEW KID ON THE BLOCK

Package: semantic.dashboard - github.com/Appsilon/semantic.dashboard

R package available on CRAN and GitHub

install.packages('semantic.dashboard')
devtools::install_github('Appsilon/semantic.dashboard')

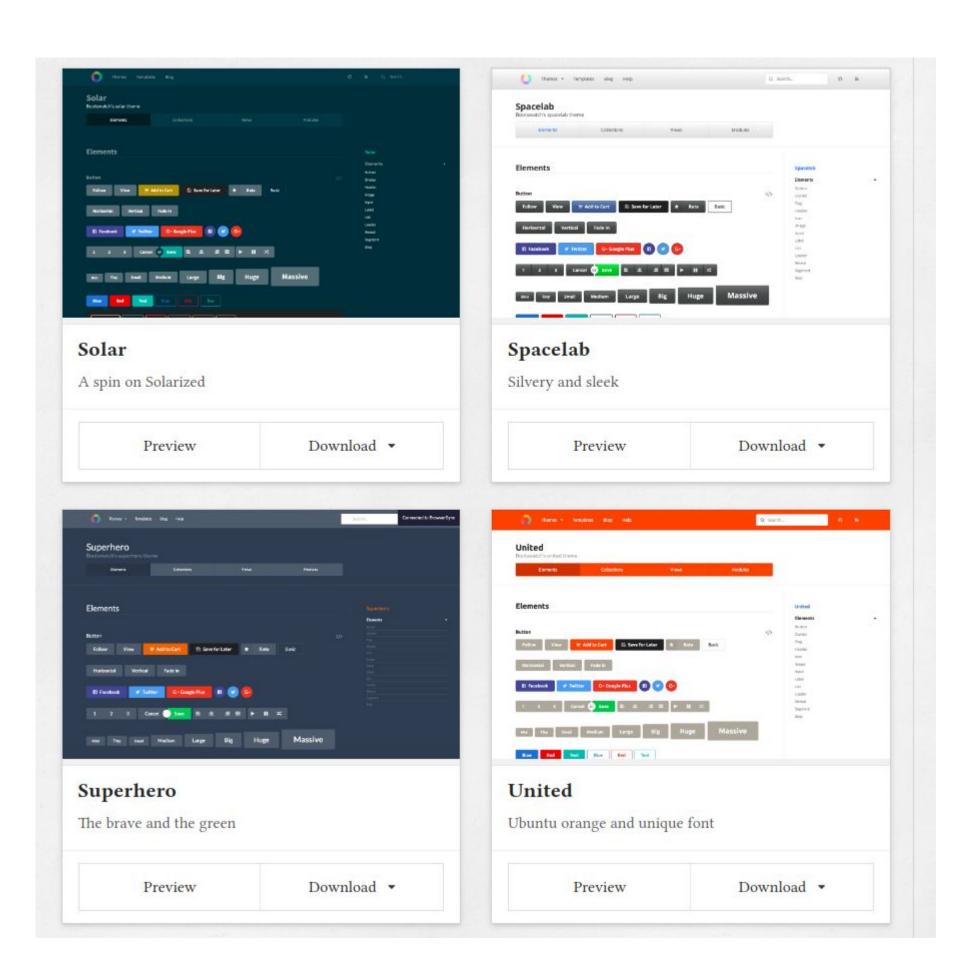
- Package for SemanticUI Shiny dashboard
 - Drop-in replacement for most cases

library('shinydashboard') => library('semantic.dashboard')

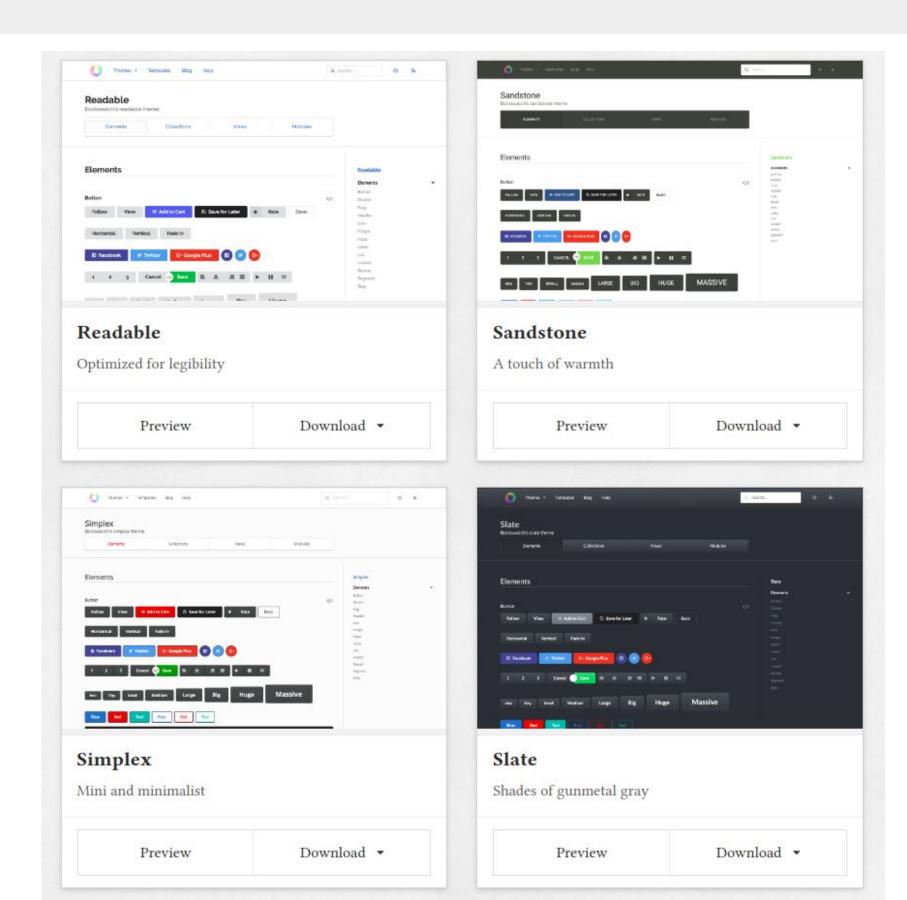


semantic.dashboard THES MADE EASY

Use Semantic UI themes to customize the dashboard look.



dashboardPage(..., theme = "united")







shiny.router SUPPORTED BY COMMUNITY

Package: shiny.router - qithub.com/Appsilon/shiny.router

R package available on GitHub

devtools::install_github('Appsilon/shiny.router')

- Making routing possible with Shiny
- Passing url parameters to the App



shiny.router

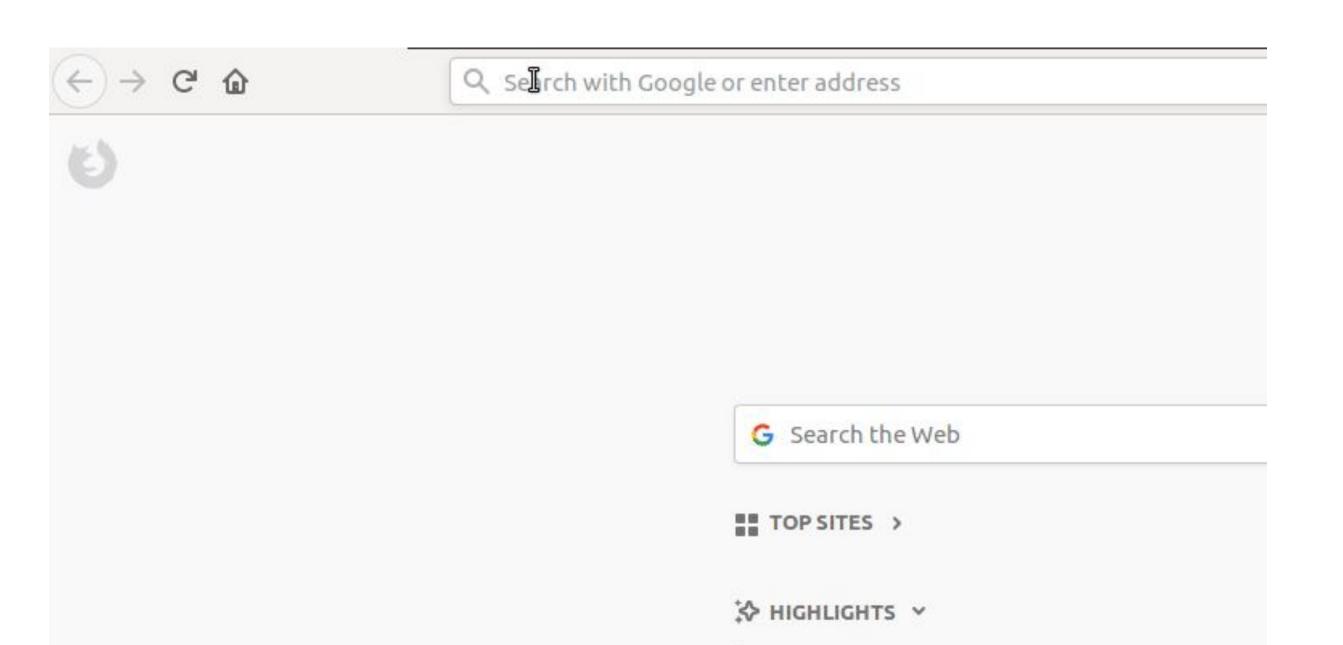
URL PARAMETERIZATION

http://example.com/over/there?param=value



Proceed with ? param1=value1 Combine 2 or more params using &

Example: ?x = 1&y = 2



Extract params in Shiny

get_query_param()



```
library(shiny)
library(shiny.router)
menu <- (
 tags$ul(
    tags$li(a(class = "item", href = "/", "Page")),
    tags$li(a(class = "item", href = route_link("other"), "Other page"))
page <- function(title, content) {
 div(
    menu,
    titlePanel(title),
    p(content)
root_page <- page("Home page", "Welcome on sample routing page!")
other_page <- page("Some other page", "Lorem ipsum")
router <- make_router(
 route("/", root_page),
 route("other", other_page)
ui <- shinyUI(fluidPage(
 router_ui()
server <- shinyServer(function(input, output, session) {</pre>
 router(input, output, session)
shinyApp(ui, server)
```

Generates menu in user interface with links.

Creates UI for each page

- Filling in the content
- Creates router. Provide routing paths and UI.
- Create output for router in main UI of a Shiny app.
- > Plug router into server.





shiny.i18n INTERNATIONALIZATION

Package: shiny.i18n - github.com/Appsilon/shiny.i18n

R package available on GitHub

devtools::install_github(`Appsilon/shiny.i18n')

- Based on Ruby framework
- Helps build multi language apps
- Supports translations in json or csv
- Early development stage, but stable



shiny.i18n INTERNATIONALIZATION

```
i18n <- Translator$new(translation_csvs_path = "./")
i18n$set_translation_language("en")

ui <- shinyUI(fluidPage(
   titlePanel(i18n$t("Hello Shiny!"))
))</pre>
```

- Loads csv with translations
- Sets translations language
- Translates the selected element







shiny.users

BIG THING IN SMALL PACKAGE

- Package dedicated to Appsilon's clients
- Authentication handled by Shiny done on the application side
 - Define different access levels for users
 - Possible to integrate with Google Sign In or LDAP



shiny.users

BIG THING IN SMALL PACKAGE





shiny.admin SHINY.USERS SIBLING

- Package dedicated to Appsilon's clients
- Allowing to collect statistics about users activity in the App
 - session duration
 - inserted inputs
 - clicked objects
 - o activity of a certain user
 - o developer can define input she wants to track

User Management



shiny.admin SHINY.USERS SIBLING

General stats

Activity stats

User specific stats

Tools

Date window
From

25.03.2018

To

14.04.2018

Data download

Download





CONTRIBUTE YOURSELF

https://github.com/Appsilon

- Take package for a test drive
 - Open PR
 - Report an issue
 - Add feature request
 - Add example
 - Improve documentation
 - Write a blogpost
 - Create Hexsticker





Questions?

- good olga_mie
- - https://github.com/Appsilon

appsilondatascience.com