Quick, make me this app!

## What is Spec?

- A framework to build Graphic User Interfaces
- In the spirit of Model View Presenter (but not exactly that)
- Declarative
- It supports different back-ends
- Morphic
- GTK3


## Why desktop?

- Web applications are "hype", and indeed they have some advantages (and drawbacks too).
- But desktop applications are here to stay: there are tons of use cases where they are suitable.
- Pharo supplies both (but we are going to talk about desktop here, web apps is the next talk) :)


## Why GTK3?

- Full suite of UI elements + many libraries that we can reuse (Vte, WebKitGtk, etc.)
- Stable (more than 20yrs)
- Maintained (recently achieved $4^{\text {th }}$ version)
- Portable (even if developed with Linux in mind)



$+C$
\#ukraine
Updated: Not refreshed (17552 status)
\#bigpharma
Jpdated: 2021-04-19 15:41 (15993 status)
\#ukraine [updated Not refreshed, 17552 status]

1 query selectAll.
2
3 query select: [ :each | each userName matches: "."menalahy." ].
4 query select: '/user/[screen_name re "."gab99."]'.
5 query select: '/user/[screen_name re "."menalahy.**]'.
6

| Created | User | Is Reply | Favorites | Retweets |
| :--- | :--- | :--- | :--- | :--- |

2022-02-24 10:04 GeorgeB1394 talse $0 \quad 57$
2022-02-24 10:04 burayaneyazacaz false $0 \quad 8$
2022-02-24 10:04 VanshuKiid false $0 \quad 81$
2022-02-24 10:04 Wizard_of_Ouzo false $0 \quad 1574$
2022-02-24 10:04 BlaulichtRabu false 0 0

2022-02-24 10:04 AmaiaOImedo false $0 \quad 1$
2022-02-24 10:04 GenieQueen1 false 0 15002

2022-02-24 10:04 marcinbeds false $0 \quad 2$
2022-02-24 10:04 8r02s125558 false $0 \quad 2$
2022-02-24 10:04 Ginmikol false 0 547
2022-02-24 10:04 gnotnujuok false $0 \quad 349$
2022-02-24 10:04 BirgitdeFrance false $0 \quad 36$

2022-02-24 10:04 Ifvillarroel
false $0 \quad 1$
@BirgitdeFrance at: 2022-02-24 10:04
RT @BrefNewsFR: 洸 $\simeq$ VIDÉO - La \#Russie bombarde l'aéroport de Ivano-Frankivsk en \#Ukraine \#UkraineRussie \#WWIII https://t.co/OxD6pcAYeE

## \＃Talks－abstracts

## \＃\＃Workshop：

－Building applications quickly（Spec GTK）
A showcase on how to build gtk applications＂the pharo way＂，using the live coding characteristics of Pharo．
－How to persist data with Pharo？Mongo／Voyage，Postgres，ODBC A quick tour about persistence alternatives for Pharo

## \＃\＃Pdays

－Pheps
PhEP stands for＂Pharo Enhancement Proposal＂，and they are intended to handle what will be part of Pharo in the future，giving the community a better approach to participate to the making of Pharo．
－Hands－on：How to build an image without morphic，nor dev tools but with spec $2 /$ Gtk ？
Deliver applications made in Pharo does not needs to ship all the development environment with it．We will present our advancements in Pharo modularisation that allows the packaging of＊minimal＊deliverable artifacts．

Spec2／Newtools
Spec2 has already a path behind it，but is just with Pharo 10 that its use has been pervasive to the environment，replacing almost all tools of the IDE．
What＇s new，what＇s the same，what changes？We will make a quick tour about the framework and its usages．

26 October 2021，9：24 am
PhEP 2 －Contribution Guidelines
26 October 2021，8：32 am

## We日k 2021－10－18

21 October 2021，10：03 am
We日k 2021－10－11
15 October 2021，6：34 am

## Nevermind Tasks

- $\quad \times$

File Window
$\checkmark+\square \square$
Lists Ctrl +1

- Inbox

Focus
目 Unsorted
(8) Life
(1) PharoDays 2022

Pharo Debugger
(T) Difusion 2022
(-) Nextcloud
Installer
SmallTODO live tutorial

- PhEP proposal
- Signatures 2022
(1) Pharo 10

PharoLauncher Gtk
( Notes 1.0

- Setup OBS

NewTools-SystemBrowser

- NewTools-Spotter
(1) NewTools-Inspector
- NewTools-Playground
( Linden 1.0
$\star$ Focus Ctrl+2
- Difusion 2022is there a way in SpTextPresenter to use ctrl-S to save text entryPharoDays 2022presentation dbs
$\square$ newtools (moldable)
$\square$ presentation spec2


## hands on spec2

(1) Spec2
verify open modally for progress bars



| per-documaps - Ingenieurbüro für Bauvesen Schmidt Gmb |  |  |  |  |  |  |  |  |  |
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## Status in a nutshell

- Reaching v1.0
- Not yet there, but API is stable and will not change.
- Widgets and layouts enough to allow a "standard" application to work both in Morphic and GTK back-ends.
- Bloc ongoing, but this is early steps yet


## Use case : Analyze some data

- Typical scenario while doing science
- The kind of program you want to produce results but do not want to spend much time on it.


## Showcase: Managing Stef books

```
(collection : SF
    (author : Adam, Douglas
        (serie : books
                            (title : Le guide du voyageur inter-galactique (read : true) (style : comic english
humour) (summary : un gars est capture par un vaisseau spatial et il lui arrive plein d'histoire
aussi debiles les unes que les autres))
                            (title : H2G2 2 (price : 2) (read : false) (style : comic english humour))
                            (title : H2G2 3 (price : 2) (read : false) (style : comic english humour))
                            (title : H2G2 4 (price : 2) (read : false) (style : comic english humour)))
    )
    (author : Benassaya, Romain
        (serie : books
            (title : Arca (read : false)))
    )
    (author : Cazeault, Patrice
        (serie : Averia
            (title : Laika Kodos (number : 3) (read : false))
            (title : Myr Chernova (number : 2) (read : false))
            (title : Seki Annika (number : 3) (read : false))
    )
)
```



```
Data \(=\) D-Lists
```



```
x - \square

Adam, Douglas Title
- books

Le guide du voyageur inter-
H2G2 2 H2G2 3
H2G2 4
Pintedo, Rafael
Benassaya, Romain
Cazeault, Patrice
- Naam, ramez

Di Filippo, Paul
- Gudule

Duncan, Hal
Pevel, Pierre
Dickinson, Charles
Damasio, Alain
- Aldiss, Brian

Anderson, Poul
- Ange

Asimov, Isaac
Derleth, August
- Ayerdhal,

Abercrombie, Joe
- Bacigalupi, Paolo

Baker, Scott
Baker, Kage
Ballard, J.G.

\begin{tabular}{|l|}
\hline BkApplication \\
\hline activeCollection \\
\hline
\end{tabular} initialize
\begin{tabular}{|l|}
\hline \multicolumn{1}{|c|}{ BKCollectionPresenter } \\
\hline detail \\
model \\
tree \\
\hline connectPresenters \\
defautlInputPort \\
intitiliePresenters \\
initiaizeWindow: \\
inputModelPort \\
model \\
model: \\
setModel: \\
setModelieforeInitialization: \\
updateDetail: \\
updatePresenter \\
\hline
\end{tabular}

BkApplication>>start

\section*{- BaselineOfSpec2}Books

Model
View
\(\square\) Commander-Spec2-Compatib\(\square\) Spec2-Adapters-Morphic
- Spec2-Adapters-Morphic-Test
- Spec2-Adapters-Stub
- \(\quad\) Spec2-Backend-Tests
- \(\square\) Spec2-Code

Books|Spec2
O All Packages O Scoped View
? Comment

C BkApplication
固 BkCollectionPresenterc) BkElement
(c) BkAuthor
(c) BkBook
(c) BkCollection
(c) BkSerie
- instance side \(\quad \square\) accessing
- initialization
running
overrides
activeCollection
- initialize
- start
\(\checkmark\)
Filter...

\section*{start}
(BkCollectionPresenter
newApplication: self
model: self activeCollection)
open```

