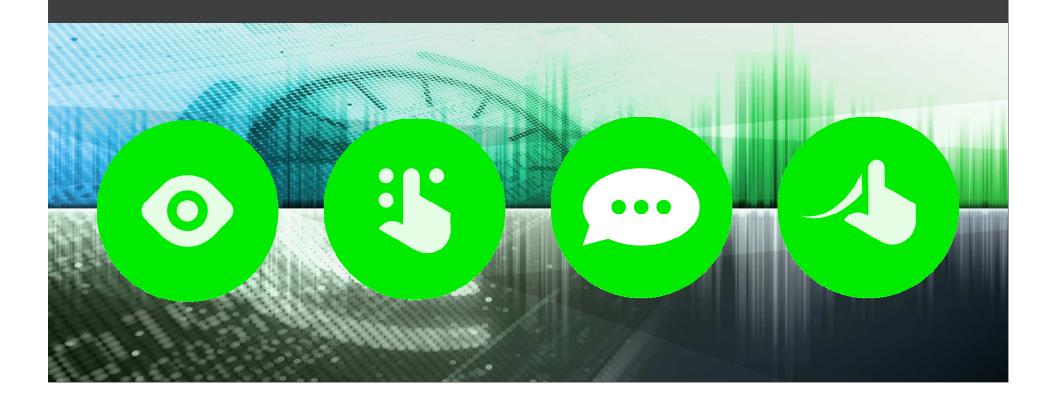
EB GUIDE Studio and EB GUIDE Speech Extension

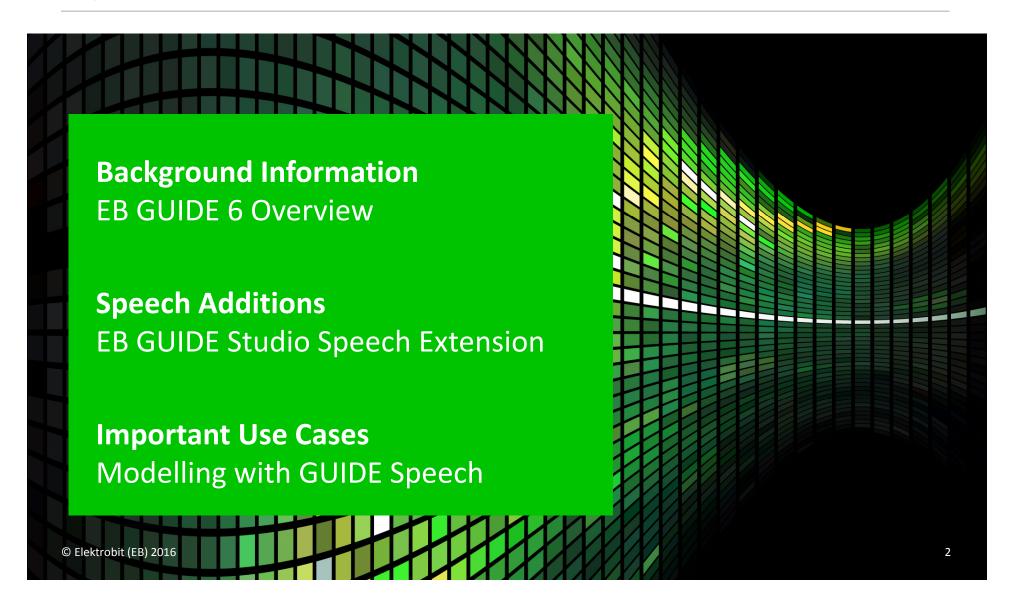
Elektrobit

Dan Henderlong
June 2016



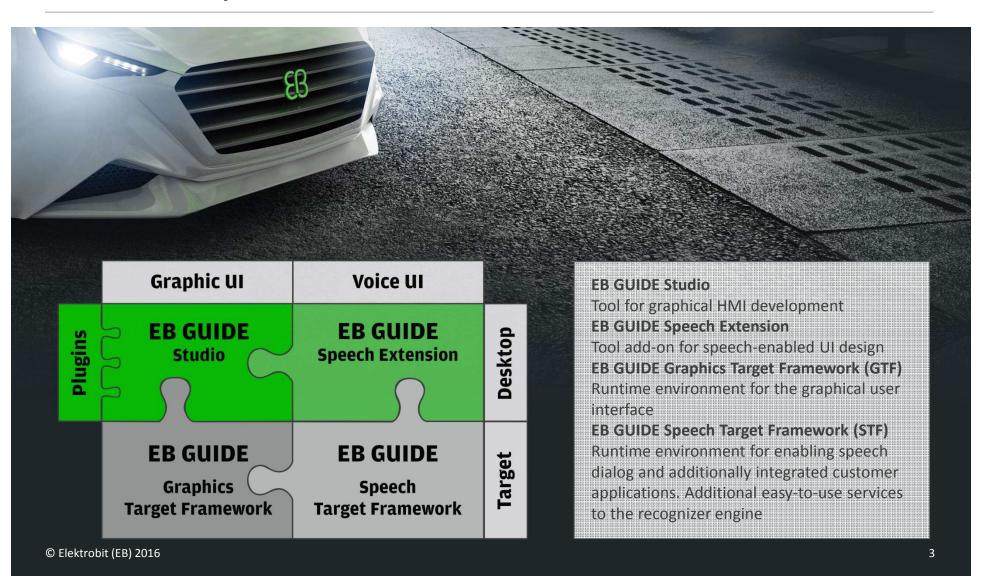


Agenda



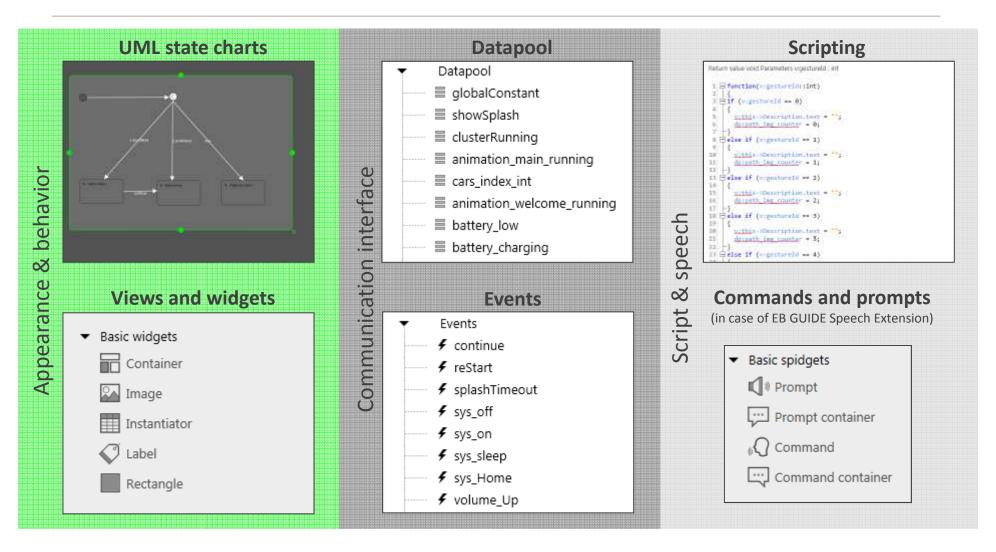


EB GUIDE product overview

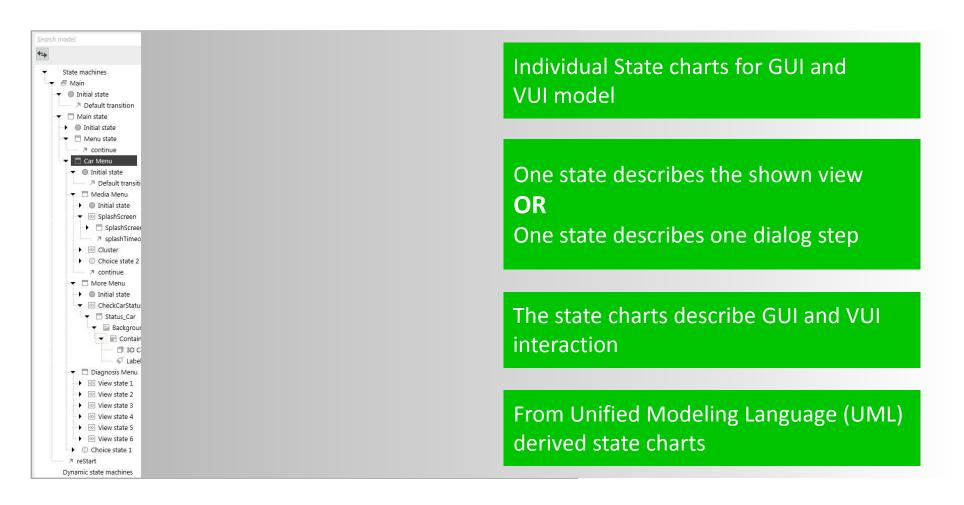




The elements of an EB GUIDE model

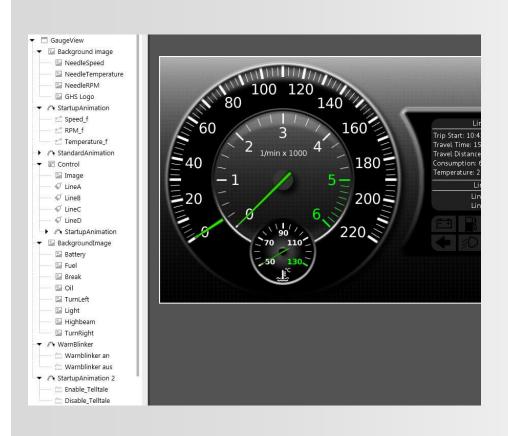


UML illustrated state charts





Native widgets for modeling



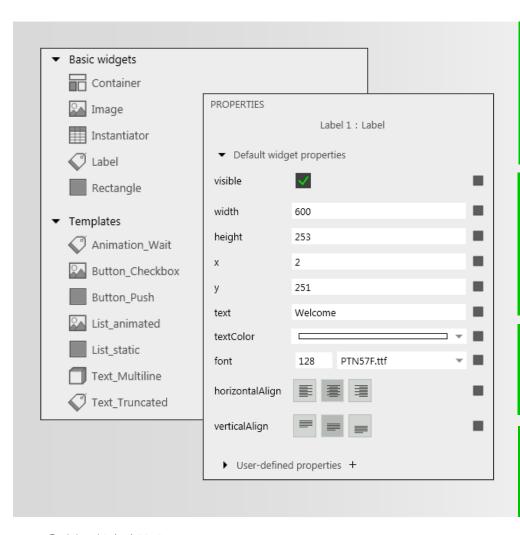
The EB GUIDE Studio Project editor manages the model hierarchy

Views combine widgets in a widget tree

WidgetTemplates allow reuse, building-blocks, and align with the wireframe pattern of the design departments



Templates as reusable building blocks



Widgets for graphical UIs

- Views are composed from a tree of widgets
- Widgets represent rectangles, texts, images...

Spidgets for voice dialog UIs

- Speech dialogs are composed from spidgets
- Spidgets represent prompts, commands, recognizers...

Properties

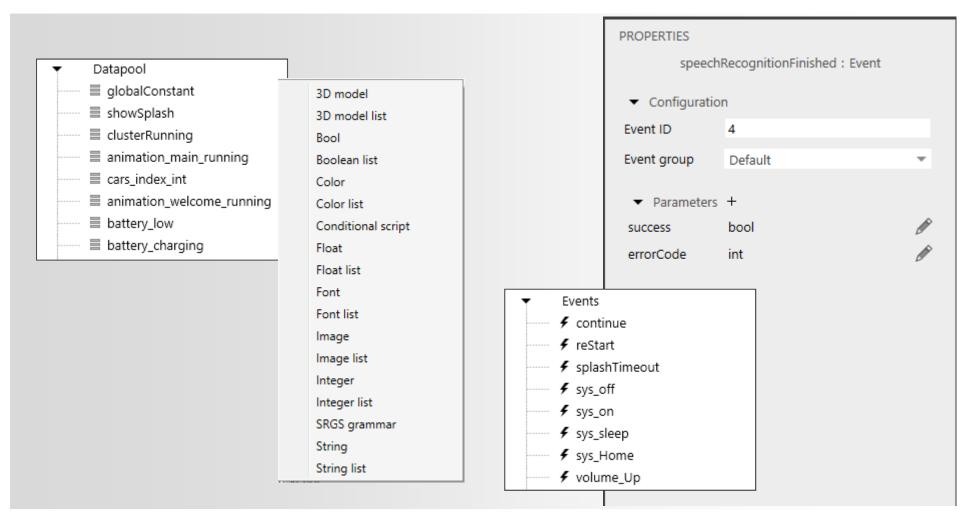
 Widgets and spidgets are configured by properties

Templates

• Complex widget or spidget trees can be assembled to reusable templates



Datapool & Events: Interfacing

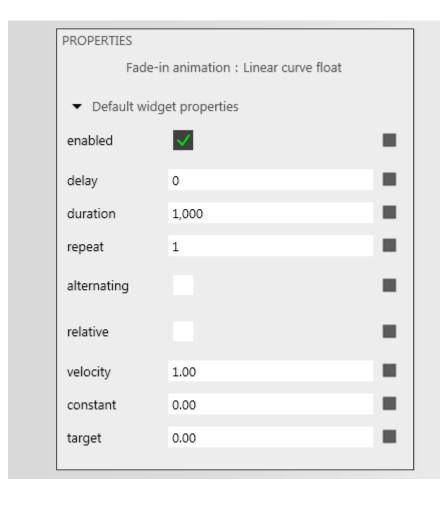




GTF Script

```
2
    2 + 2 // Expression
    ev:speechInitialized // Event Namespace
    f:getTextLength // Function Namespace
    dp:BackgroundImg // Datapool Namespace
    v:this.x // Local Variable Namespace
9 ☐ while( ! dp:whaleInSight ) // While Loop
10
         dp:whaleInSight = "";
11
12
13
14 | if( dp:whaleInSight && dp:user == "Captain Ahab" ) // If-Then-Else Statement
15
16
        dp:mode = "insane";
17
18 ⊟ else
19
        dp:mode = "normal";
21
22
```

Modeling of animations along a timeline



Animations are modeled directly in EB GUIDE Studio and applied to target widgets

Every widget property can be animated

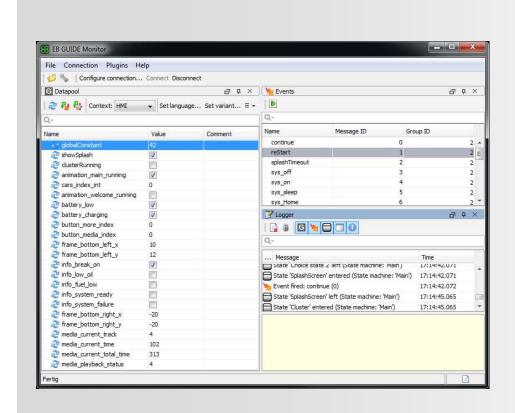
Animations can be scripted as well

Different kinds of animations:

- Animate whole widgets
- Animate parts inside a widget
- Animate view transitions between views (*)



Monitor the HMI with EB GUIDE Monitor



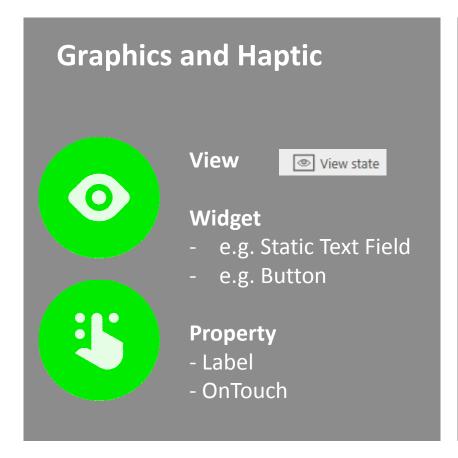
Challenge

- Manage complex dialog flows
- Automated testing of dialog flows
- Early evaluation of usability

Solution

- EB GUIDE Monitor is a graphical tool to monitor and control the runtime.
- EB GUIDE Monitor supports test automation on the command line via JavaScript.

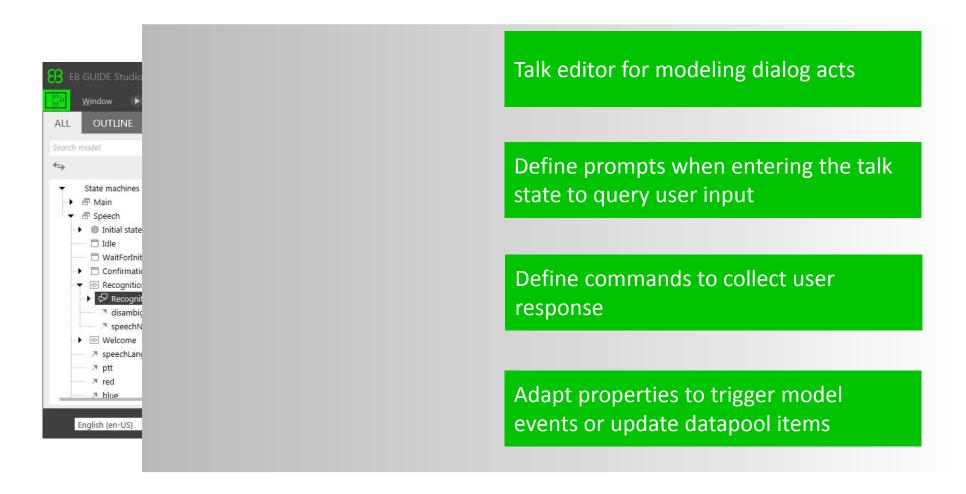
Key features – Consistency to the graphics world





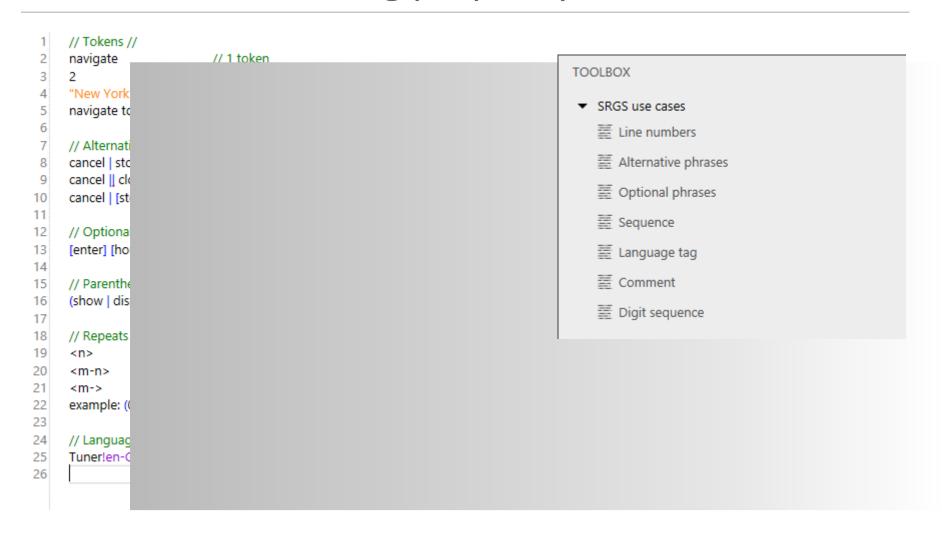


Talk Editor



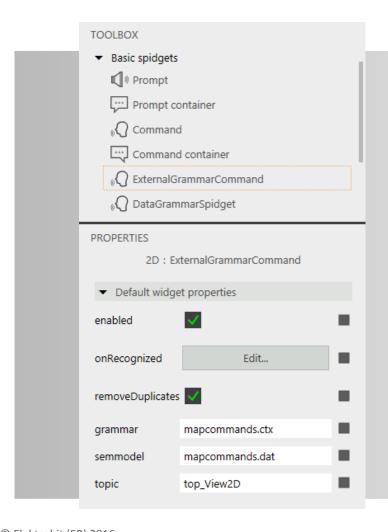


SRGS Grammar: Using proper syntax





Add-on: NLU Commands (External Grammer)



Challenge

- Numerous commands are hard to memorize
- Commands are not always intuitive enough for the end user to know what needs to be said

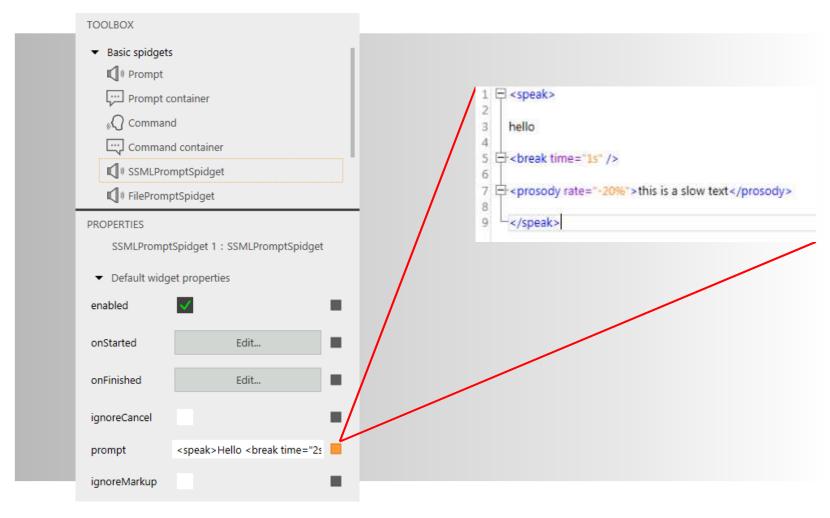
Solution

EB GUIDE's External Grammar
 Command Spidget allows for
 commands to be created by a third
 party that has experience with the
 natural language of the end user

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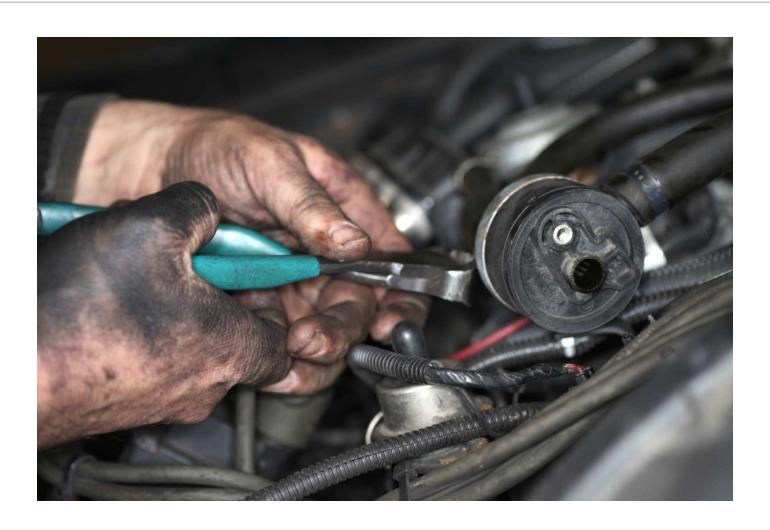


Add-on: SSML (Speech Synthesis Markup Language) Prompts



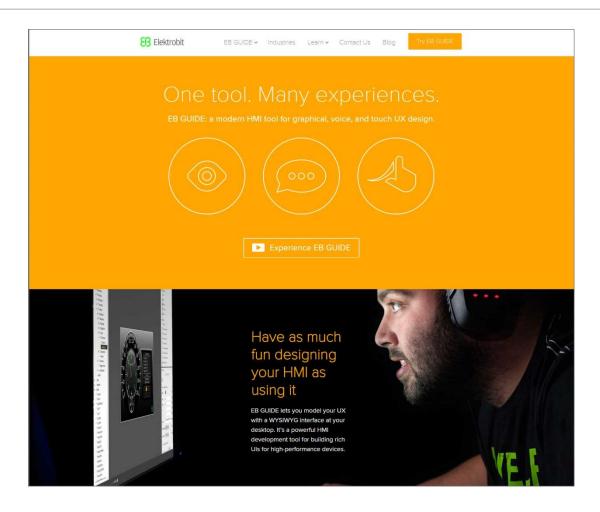


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