

Development of Tag Browser Software Tool for ATLAS COOL Database

by

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European Organization
for Nuclear Research



Georgian Engineering
Center

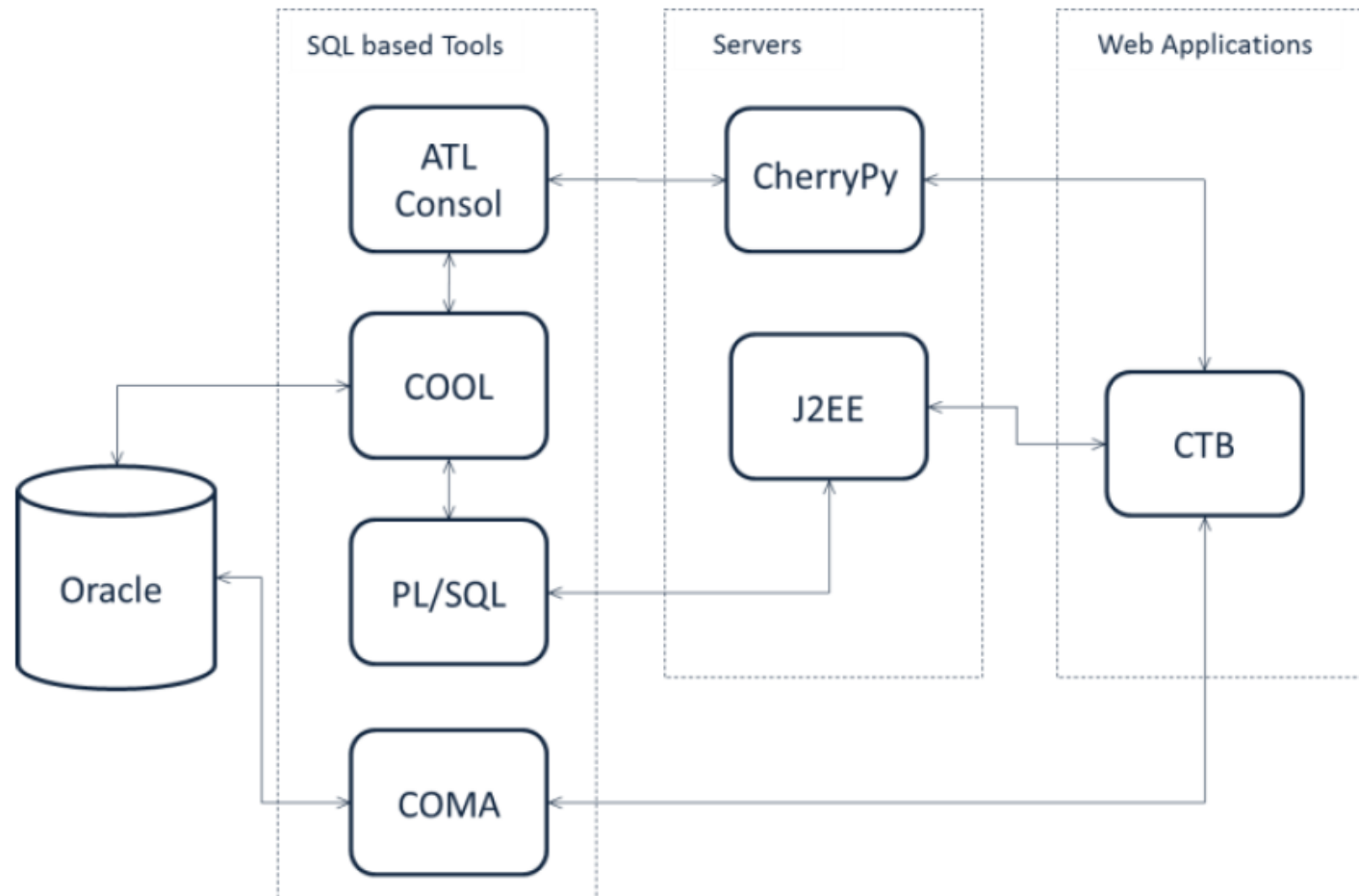


Georgian Technical University

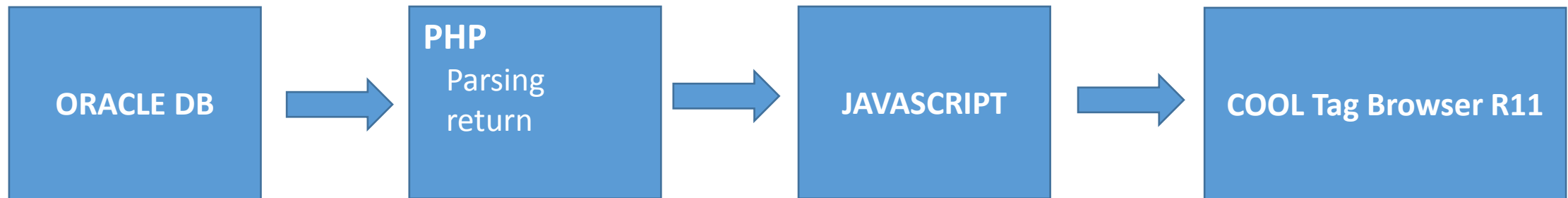
Overview

- COOL Tag Browser Behind-the-scenes
- Basic Anatomy of COOL Tag Browser
- The Good, the Bad, and the Ugly User Interface
- Primary Objective
- Form v. Function
- Coming Soon

CTB Behind-the-scenes // Data Flow



CTB Behind-the-scenes // Data Flow



CTB Behind-the-scenes // Methodology

CherryPy: `http://voatlas207.cern.ch:8080/ATLAS_COOLPROD/ATLASOFL_CALO/COMP200/tags`

PL/SQL: `function f_Get_GlobalTags(SchemaName, DbName,
Pattern_GTagName)

http://voatlas207.cern.ch:8080/ATLAS_COOLPROD/
ATLASOFL_CALO/COMP200/tags`

COMA: `$query="select NODE_DESCRIPTION, NODE_NAME,
NODE_FULLPATH , CBO_NAME, CBS_NAME,
CBI_NAME from ATLAS_TAGS_METADATA.COMA_
CB_NODES inner join ATLAS_TAGS_
METADATA.COMA_ CB_OWNER_INSTANCES on
ATLAS_TAGS_
METADATA.COMA_ CB_OWNER_INSTANCES.CBOI_INDEX=ATLAS_TAGS_METADATA.COMA_
CB_NODES.CBOI_INDEX where CBO_NAME='".$database."' and CBS_NAME='".$schema."' and CBI_NAME='".$instance."' and NODE_FULLPATH='".$folder."'"`

CTB Behind-the-scenes // CherryPy , PL/SQL and COMA

In CherryPy output format is XML

```
<schemaList server="ATLAS_COOLPROD">  
  <schema>ATLAS_COOLOFL_CALO</schema>  
  <schema>ATLAS_COOLOFL_CSC</schema>  
  <schema>ATLAS_COOLOFL_DCS</schema>  
  <schema>ATLAS_COOLOFL_FWD</schema>  
  <schema>ATLAS_COOLOFL_GLOBAL</schema>  
  <schema>ATLAS_COOLOFL_INDET</schema>  
  <schema>ATLAS_COOLOFL_LAR</schema>  
  <schema>ATLAS_COOLOFL_MDT</schema>  
  <schema>ATLAS_COOLOFL_MUONALIGN</schema>  
  <schema>ATLAS_COOLOFL_PIXEL</schema>  
  <schema>ATLAS_COOLOFL_RPC</schema>  
  <schema>ATLAS_COOLOFL_SCT</schema>  
  <schema>ATLAS_COOLOFL_TGC</schema>  
  <schema>ATLAS_COOLOFL_TILE</schema>  
  <schema>ATLAS_COOLOFL_TRIGGER</schema>  
  <schema>ATLAS_COOLOFL_TRT</schema>  
</schemaList>
```

PARSER

```
CALO  
CSC  
DCS  
FWD  
GLOBAL  
INDET  
LAR  
MDT  
MUONALIGN  
PIXEL  
RPC  
SCT  
TGC  
TILE  
TRIGGER  
TRT
```

CTB Behind-the-scenes // CherryPy , PL/SQL and COMA

In PL/SQL output formats are XML and JSON

```
[{"rowid":1,"schemaName":"ATLAS_COOLOFL_CSC","dbName":"COMP200","nodeId":13,"nodeName":"FTHOLD","nodeFullPath":"/CSC/FTHOLD","nodeDescription":"<timeStamp>run-lumi</timeStamp><addrHeader><address_header service_type=\"71\" clid=\"1238547719\" /></addrHeader><typeName>CondAttrListCollection</typeName>","nodeIsLeaf":1,"nodeInTime":"2010-05-25_11:08:07.539405000 GMT","nodeLovBase":"run-lumi","nodeLovType":"CondAttrListCollection","nodeTInTime":1274778487000,"lastModDate":"2010-05-25_11:08:07.539405000 GMT","folderVersioning":1,"folderPayloadSpec":"","chamId":Int32,"Data:String64k","folderLovTableName":"COMP200_F0013_IO_VS","folderTagTableName":"COMP200_F0013_TAGS","folderChannelTableName":"COMP200_F0013_CHANNELS"}]
```

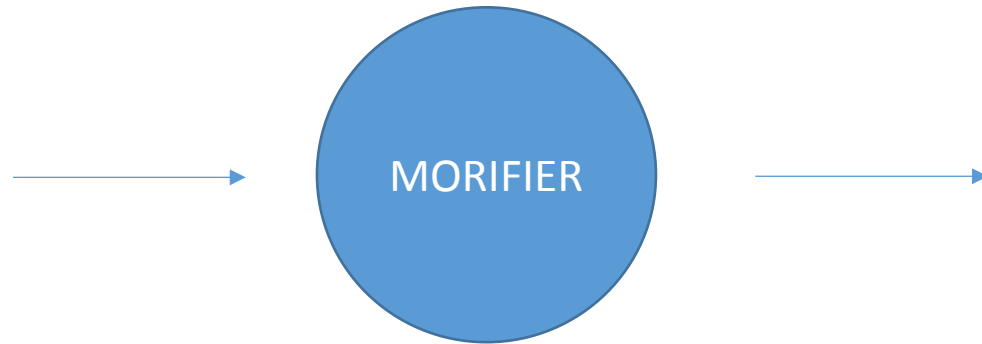
PARSER

[/CSC/FTHOLD](#)
[/CSC/GAIN](#)
[/CSC/NOISE](#)
[/CSC/PEAKT](#)
[/CSC/PED](#)
[/CSC/PSLOPE](#)
[/CSC/RMS](#)
[/CSC/RSLOPE](#)
[/CSC/SAT1](#)
[/CSC/SAT2](#)
[/CSC/STAT](#)
[/CSC/T0BASE](#)
[/CSC/T0PHASE](#)
[/CSC/THOLD](#)
[/CSC/WIDTH](#)

CTB Behind-the-scenes // CherryPy , PL/SQL and COMA

In COMA we have DATABASE

	schema
2	ATLAS_COOLOFL_CALO
3	ATLAS_COOLOFL_CSC
4	ATLAS_COOLOFL_DCS
5	ATLAS_COOLOFL_FWD
6	ATLAS_COOLOFL_GLOBAL
7	ATLAS_COOLOFL_INDET
8	ATLAS_COOLOFL_LAR
9	ATLAS_COOLOFL_MDT
10	ATLAS_COOLOFL_MUONALIGN
11	ATLAS_COOLOFL_PIXEL
12	ATLAS_COOLOFL_RPC
13	ATLAS_COOLOFL_SCT
14	ATLAS_COOLOFL_TGC
15	ATLAS_COOLOFL_TILE
16	ATLAS_COOLOFL_TRIGGER
17	ATLAS_COOLOFL_TRT



CALO	▶
CSC	▶
DCS	▶
FWD	▶
GLOBAL	▶
INDET	▶
LAR	▶
MDT	▶
MUONALIGN	▶
PIXEL	▶
RPC	▶
SCT	▶
TGC	▶
TILE	▶
TRIGGER	▶
TRT	▶

Basic Anatomy Of COOL Tag Browser

Menu / Direct path



Tag search



Menu



The screenshot displays the COOL Tag Browser interface. At the top, a breadcrumb path shows the navigation: OFFLINE > CALO > COMP200 > /CALO/Ofi/HadCalibration2/CaloJetEnergyScale. Below this, there are tabs for 'Trace' and 'BackTrace'. On the left, a vertical menu lists various tags: CALO, CSC, DCS, FWD, GLOBAL, INDET, LAR, MDT, MUONALIGN, PIXEL, RPC, SCT, TGC, TILE, TRIGGER, and TRT. A search bar with a 'Go' button is positioned above the menu. A modal window is open in the center, titled '/CALO/Ofi/HadCalibration2/Filter', containing a list of tags: 'CALOOfiHadCalibration2CaloJetEnergy...' and 'CaloOfiHadJESCorr2-GEO16-QGSP-BERT'. A blue callout box with the text 'There's something inside!' is overlaid on the modal. Orange arrows from the external labels point to the breadcrumb path, the search bar, and the left-hand menu.

Basic Anatomy Of COOL Tag Browser

Checkboxes determine the type of data displayed by the browser.

Users can speed up the browsing process by omitting the unwanted parameters.

The screenshot shows the COOL Tag Browser interface with the following components:

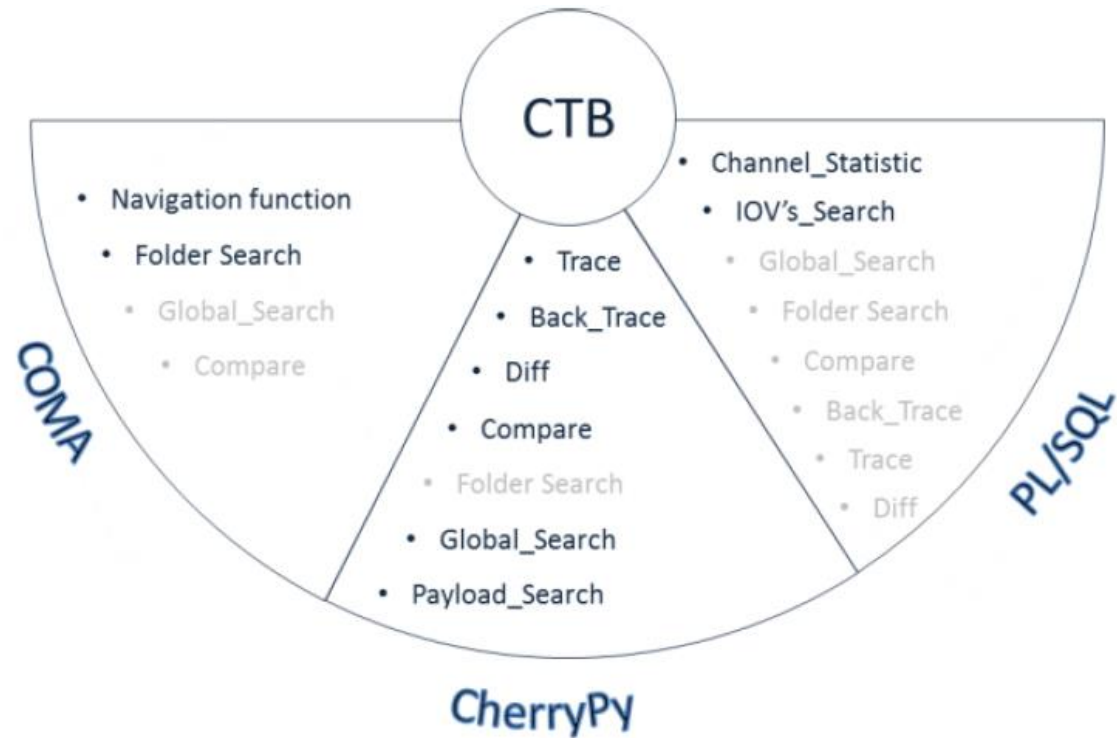
- Breadcrumbs:** OFFLINE > CALO > COMP200 > /CALO/Of/Noise/CellNoise
- General Filter:** General
- Trace Filter:** Trace
- Backtrace Filter:** Backtrace
- Channels Filter:** Channels
- General Information:**
 - Name: CaloOfNoiseCellnoise-UPD4-05
 - DataBase: COMP200
 - Schema: CALO
 - Folder: /CALO/Of/Noise/CellNoise
 - TimeStamp: run-lumi
 - ServiceType: 71
 - Clid: 1238547719
 - TypeName: CondAttrListCollection
 - Insertion Time: Tue, 09 Aug 2011 14:59:57 GMT
 - Locked/Unlocked:
- Trace Information:**
 - Object ID: /CALO/Of/Noise/CellNoise
 - Object ID: /CALO/Of/Noise/CellNoise-UPD4-05
- Backtrace Information:**
 - Object ID: /COMCOND-005-03
 - Object ID: /CALO-COM-048-00
 - Object ID: /CaloOfI-upd5-00
 - Object ID: /CaloOfI-noise-upd5-00
 - Object ID: /CaloOfI-noiseCellnoise-UPD4-05
 - Object ID: /COMCOND-BLKPS-005-04
 - Object ID: /CALO-COM-048-00
 - Object ID: /CaloOfI-upd5-00
 - Object ID: /CaloOfI-noise-upd5-00
 - Object ID: /CaloOfI-noiseCellnoise-UPD4-05
 - Object ID: /COMCOND-BLKPS-005-03
 - Object ID: /CALO-COM-051-00
 - Object ID: /CaloOfI-upd8-00
 - Object ID: /CaloOfI-noise-upd8-00
 - Object ID: /CaloOfI-noiseCellnoise-UPD4-05
 - Object ID: /COMCOND-BLKPS-005-04
- Channels Table:**

Channel ID	Number Of Iovs	IovBase
0	616	run-lumi
1	607	run-lumi
2	610	run-lumi
3	609	run-lumi
16	608	run-lumi
32	603	run-lumi
48	33	run-lumi
Total:		7
- Object List Table:**

Object ID	Since	Until
objectid:72712	187431	Inf
objectid:72713	186500	187431
objectid:71680	185200	186500
objectid:71674	184300	185200
objectid:71668	183510	184300
objectid:71662	181980	183510
objectid:71656	178710	181980
objectid:71650	176972	178710
- IOV per Channel Chart:**

Bar chart showing IOV per Channel for various object IDs. The x-axis represents IOV Range / Timestamp (0k to 400k). The legend indicates: Since (green), Holes (black), and Until (blue).

COOL Tag Browser R11



The Good, the Bad and the Ugly User Interface

- Why do we need designers?!
- They **make things look good!**



The Good, the Bad and the Ugly User Interface

☰
OFFLINE
CALO
COMP200
/CALO/Ofi/Noise/CellNoise

General

Name: CaloOffNoiseCellnoise-UPD4-05

DataBase: COMP200

Schema: CALO

Folder: /CALO/Ofi/Noise/CellNoise

TimeStamp: run-lumi

ServiceType: 71

Clid: 1238547719

TypeName: CondAttrListCollection

Insertion Time: Tue, 09 Aug 2011 14:59:57 GMT

Locked/Unlocked:

Trace

/CALO/Ofi/Noise/CellNoise

/CaloOffNoiseCellnoise-UPD4-05

BackTrace

/COMCOND-BLKP-005-03

/CALO-COM-048-00

/CaloOff-upd5-00

/CaloOffNoise-upd5-00

/CaloOffNoiseCellnoise-UPD4-05

/COMCOND-BLKP-005-04

/CALO-COM-048-00

/CaloOff-upd5-00

/CaloOffNoise-upd5-00

/CaloOffNoiseCellnoise-UPD4-05

/COMCOND-BLKPS-005-03

/CALO-COM-051-00

/CaloOff-upd8-00

/CaloOffNoise-upd8-00

/CaloOffNoiseCellnoise-UPD4-05

/COMCOND-BLKPS-005-04

Channels 48

Channel ID	Number Of Iovs	IovBase	Object ID	Since	Until
0	616	run-lumi	objectid:72712	187431	inf
1	607	run-lumi	objectid:72713	186500	187431
2	610	run-lumi	objectid:71680	185200	186500
3	609	run-lumi	objectid:71674	184300	185200
16	608	run-lumi	objectid:71668	183510	184300
32	603	run-lumi	objectid:71662	181980	183510
48	33	run-lumi	objectid:71656	178710	181980
			objectid:71650	176972	178710
Total:7					

IOV per Channel

IOV Range / Timestamp

■ Since
 ■ Holes
 ■ Until

Highcharts.com

The Good, the Bad and the Ugly User Interface

OFFLINE CALO COMP200 /CALO/Ofi/Noise/CellNoise

General

Name: CaloOfiNoiseCellnoise-UPD4-05

DataBase: COMP200

Schema: CALO

Folder: /CALO/Ofi/Noise/CellNoise

TimeStamp: run-lumi

ServiceType: 71

Clid: 1238547719

TypeName: CondAttrListCollection

Insertion Time: Tue, 09 Aug 2011 14:59:57 GMT

Locked/Unlocked:

Trace

/CALO/Ofi/Noise/CellNoise
/CALO/Ofi/Noise/Cellnoise-UPD4-05

BackTrace

/COMCOND-BLKP-005-03
/CALO-COM-048-00
/CaloOff-upd5-00
/CaloOffNoise-upd5-00
/CaloOffNoiseCellnoise-UPD4-05
/COMCOND-BLKP-005-04
/CALO-COM-048-00
/CaloOff-upd5-00
/CaloOffNoise-upd5-00
/CaloOffNoiseCellnoise-UPD4-05
/COMCOND-BLKPS-005-03
/CALO-COM-051-00
/CaloOff-upd8-00
/CaloOffNoise-upd8-00
/CaloOffNoiseCellnoise-UPD4-05
/COMCOND-BLKPS-005-04

Channels 48

Channel ID	Number Of Iovs	IovBase	Object ID	Since	Until
0	616	run-lumi	objectid:72712	187431	inf
1	607	run-lumi	objectid:72713	186500	187431
2	610	run-lumi	objectid:71680	185200	186500
3	609	run-lumi	objectid:71674	184300	185200
16	608	run-lumi	objectid:71668	183510	184300
32	603	run-lumi	objectid:71662	181980	183510
48	33	run-lumi	objectid:71656	178710	181980
			objectid:71650	176972	178710
		Total:7			

IOV per Channel

Legend: ■ Since ■ Holes ■ Until

Highcharts.com

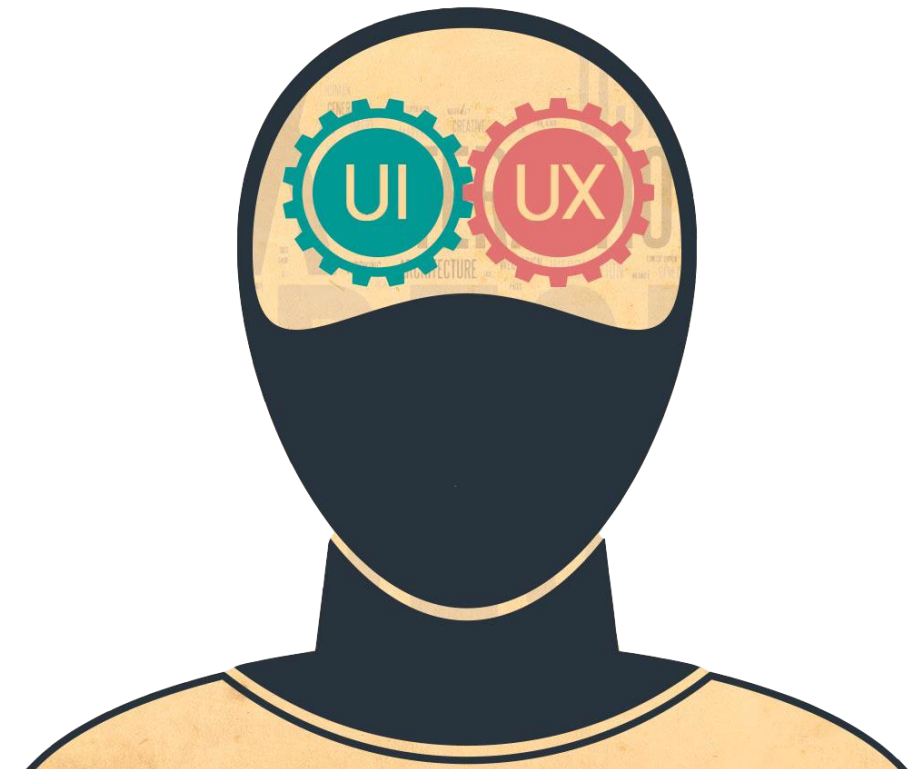
The Good, the Bad and the Ugly User Interface

- Why do we need designers?!
- They **make good things!**



The Good, the Bad and the Ugly User Interface

- Delightful and easy to use;
- Promote meaningful interaction;
- Understand users' needs!
- Monitor, analyze, adapt!



Form v. Function

- Bad UI/UX kills people!

The screenshot shows the Epic EHR interface for a patient named 'Xbialidocious, Fuzzy', a 5-year-old male. The interface is highly cluttered with multiple overlapping panels and tabs. Key sections include:

- Problem List:** Lists various conditions such as DM (diabetes mellitus), Down's syndrome, and rheumatoid arthritis.
- Allergies/Contraindications:** Lists allergies like Penicillins, Nuts, and Cats, and contraindications like NSAIDs and Sulfadiazine.
- Medications:** Lists various medications including Insulin NPH, Insulin Glargine, and Fluocinolone.
- Health Maintenance:** Lists completed screenings like HEARING SCREENING (4 YEARS) and (HEDIS) HEPATITIS B (0-18 YEARS).
- Patient Lists:** Lists various tests and procedures.

The screenshot shows the Epic EHR interface for a patient named 'Peterson, Cindy', a 26-year-old female. The interface is highly cluttered with multiple overlapping panels and tabs. Key sections include:

- Guarantor Overview:** Displays patient information, contact details, and insurance information.
- Patients and Coverages:** Lists other patients and their insurance coverages.
- Visits (Last 3):** Lists recent visits with dates, provider names, and charges.
- Statements (Last 5):** Lists recent statements with invoice numbers, charges, and out-of-pocket amounts.
- Payments (Last 5):** Lists recent payments with dates, payment types, and amounts.

Source: How Bad UX Killed Jenny by Jonathan Shariat

<https://medium.com/@designuxui/how-bad-ux-killed-jenny-ef915419879e>

Form v. Function

Zztest, Ad MRN 18774711 DOB 4/15/1950 Age 60 Sex M Allergies No Known Allergies PCP NO Type (None)* PH * BX35, HN35 Online Basic Alerts **HM**

Snapshot ADVANCE DIRECTIVE/CODE STATUS Report Snapshot

Demographics
AD ZZTEST 123 Easy St
60 year old male Xxx, XX 99999
Home: 999-999-9999

Allergies
No Known Allergies

Medications Long-Term
PREVPAC Pack
lisinopril (PRINVL, ZESTRIL) 10mg Tab
tramadol (ULTRAM) 50mg Tab
fluticasone (FLONASE) 50mcg Nasal Susp
PREVPAC (PREVPAC) Pack
ranitidine (ZANTAC) 300mg Tab

Immunizations/Injections
None

Significant History/Details
Tobacco: Not on File
Alcohol: Not on File
3 open orders
Language: UNKNOWN

Specialty Comments Report Show All Edit
No comments regarding your specialty

Family Comments Edit
None

Problem List Chronic
Chronic
ESOPHAGEAL REFLUX
Other
ASTHMA NOS W/O STATUS ASTHM
ESSENTIAL HYPERTENSION NOS
ERRONEOUS ENCOUNTER

Health Maintenance Overdue Due On Due Soon
→ CREATININE 04/15/1950
→ INFLUENZA VACCINE 09/01/2010
→ LIPID SCREENING 04/15/1985
→ PNEUMOCOCCAL VACCINE (PNEUMOVAX) 04/15/1952
→ POTASSIUM 04/15/1950
→ TDAP VACCINE 04/15/1961
→ UNIVERSAL HIV SCREENING DISCUSSION 04/15/1963
→ VARICELLA ZOSTER VACCINE (ZOSTAVAX) 04/15/2010
COLORECTAL CANCER SCREENING DISCUSSION 08/02/2011

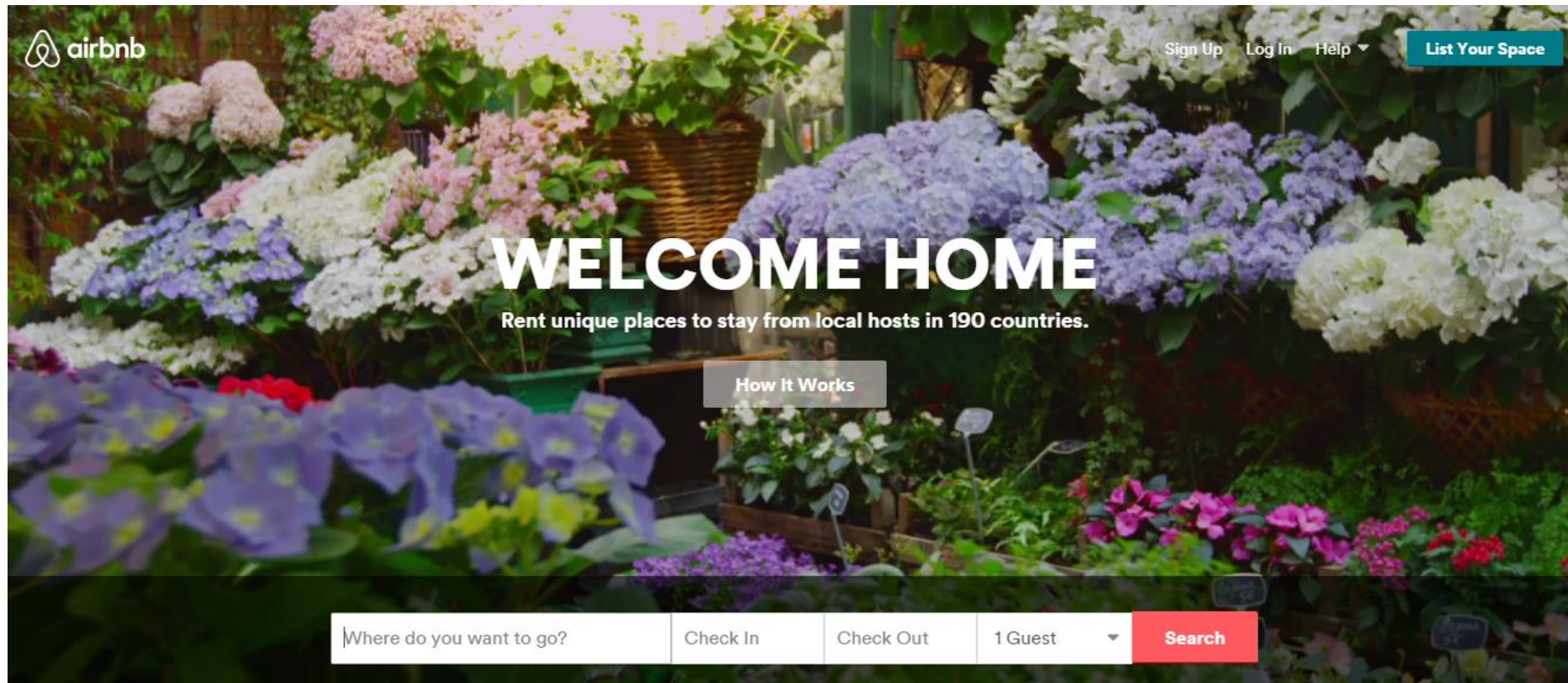
Reminders and Results
None

JODIM CC'd Charts, CC'd Results, Result Notes, Results, Addendum, Charts CC'd To Me, Expiring Ord, Open Charts, 9:54 AM

Source: How Bad UX Killed Jenny by Jonathan Shariat

<https://medium.com/@designuxui/how-bad-ux-killed-jenny-ef915419879e>

Form v. Function



Form v. Function

Physicists are people too!

Primary Objective

To unleash full potential of the COOL database.

- Bring order to the chaos;
- Make browsing highly rewarding;
- Promote world-peace!

Form v. Function

COOL Tag Browser R10.0

The screenshot displays the COOL Tag Browser R10.0 interface. At the top, there is a navigation bar with icons for COMA, COOL, Diff, Trace, B.Trace, Bookmark, Home, and About. The main window is divided into three sections: SCHEMA / DB, TAG, and DETAILS.

SCHEMA / DB: Shows a tree view of the database structure. The root is ATLAS_COOLPROD, with sub-nodes for ATLAS_COOLOFL_CALO, COMP200, and CALO. The CALO node is expanded, showing a hierarchy of folders and tags. The folders include /CALO, /CALO/OfI, /CALO/OfI/HadCalibration2, /CALO/OfI/HadCalibration2/CaloJetEnergyScale, /CALO/OfI/JetCalib, /CALO/OfI/JetCalib/EtaMassEnergyCorr, /CALO/OfI/JetCalib/JetPropertyInvertResponseTool, /CALO/OfI/JetCalib/MCNum Inversion Response, /CALO/OfI/JetCalib/Offset Correction, /CALO/OfI/JetCalib/TrackAngularCorrection, /CALO/OfI/JetCalib/TrackBaseResponseCorrection, /CALO/OfI/Noise, /CALO/OfI/Noise/CellNoise, /CALO/OfI/Noise/PileUpNoiseLumI, /CALO/OfI/Pedestal, and /CALO/OfI/Pedestal/CeIlPedestal. Other folders include /CONDBR2 and /OFLP200.

TAG: A table listing tags. The columns are TAG, a lock icon, and a checkbox. The tags listed are CALO-COM-002-00 through CALO-COM-028-00. The lock icons indicate the status of each tag (locked or unlocked).

DETAILS: A pane showing the hierarchy of the selected tag. The hierarchy is: CALO/CALO-COM-012-00 / CALO/OfI/CaloOfI-upd1-00 / CALO/OfI/HadCalibration2/CALOOFIHadCalibration2-00 / CALO/OfI/HadCalibration2/CaloJetEnergyScale/CALOOFIHadCalibration2CaloJetEnergyScale-GE008-QGSP-BERT / CALO/OfI/Noise/CaloOfINoise-upd1-00 / CALO/OfI/Noise/CellNoise/CaloOfINoiseCellNoise-UPD1-00 / CALO/OfI/Noise/PileUpNoiseLumI/CALOOFINoisePileUpNoiseLumI-mus / CALO/OfI/Pedestal/CALOOFIpedestal-02 / CALO/OfI/Pedestal/CeIlPedestal/CALOOFIpedestalCeIlPedestal-UPD1-00.

At the bottom left, there is a status bar showing "720.00 ms 373.00 ms". At the bottom right, there is a footer with the text "Created by GCCEC All Rights Reserved 2012".

Current: COMCOND-BLKPA-RUN1-06
CurrentES: COMCOND-ES1PA-006-05
Next:
NextES: COMCOND-HLTP-004-03

Form v. Function

COOL Tag Browser R10.0

The screenshot displays the COOL Tag Browser R10.0 interface. At the top, there is a toolbar with icons for COMA, COOL, DIFF, Trace, B.Trace, Bookmark, Home, and About. The main window is divided into three sections: SCHEMA / DB, TAG, and DETAILS.

SCHEMA / DB: A tree view showing the hierarchy of tags. The root is COMP200, followed by CALO, and then various sub-categories like CALO/Ofi, CALO/Ofi/HadCalibration2, etc. The tree is currently expanded to show the CALO/Ofi/Noise/CellNoise sub-tree.

TAG: A list of tags with their corresponding icons. The tags are listed in a table format:

Tag Name	Icon
CALO-COM-002-00	🔒
CALO-COM-003-00	🔒
CALO-COM-004-00	🔒
CALO-COM-005-00	🔒
CALO-COM-006-00	🔒
CALO-COM-007-00	🔒
CALO-COM-008-00	🔒
CALO-COM-009-00	🔒
CALO-COM-010-00	🔒
CALO-COM-011-00	🔒
CALO-COM-012-00	🔒
CALO-COM-013-00	🔒
CALO-COM-017-00	🔒
CALO-COM-018-00	🔒
CALO-COM-019-00	🔒
CALO-COM-020-00	🔒
CALO-COM-021-00	🔒
CALO-COM-022-00	🔒
CALO-COM-023-00	🔒
CALO-COM-026-00	🔒
CALO-COM-027-00	🔒
CALO-COM-028-00	🔒

DETAILS: A panel showing the details of the selected tag. It includes a "Tag Compare Result" section with a table:

Tag I	Tag II
CALO-COM-002-00	CALO-COM-003-00

Below this, there is a "DIFF" window showing the difference between the selected tags. The diff window displays the following content:

```
COMP200 CALO-COM-005-00 CALO-COM-008-00
/CALO/Noise/CellNoise
  CaloNoiseCellnoise-000-02 CaloNoiseCellnoise-000-03
```

At the bottom of the interface, there is a status bar with the following information:

Current: COMCOND-BLKPA-RUN1-06
CurrentES: COMCOND-ES1PA-006-05
Next:
NextES: COMCOND-HLTP-004-03

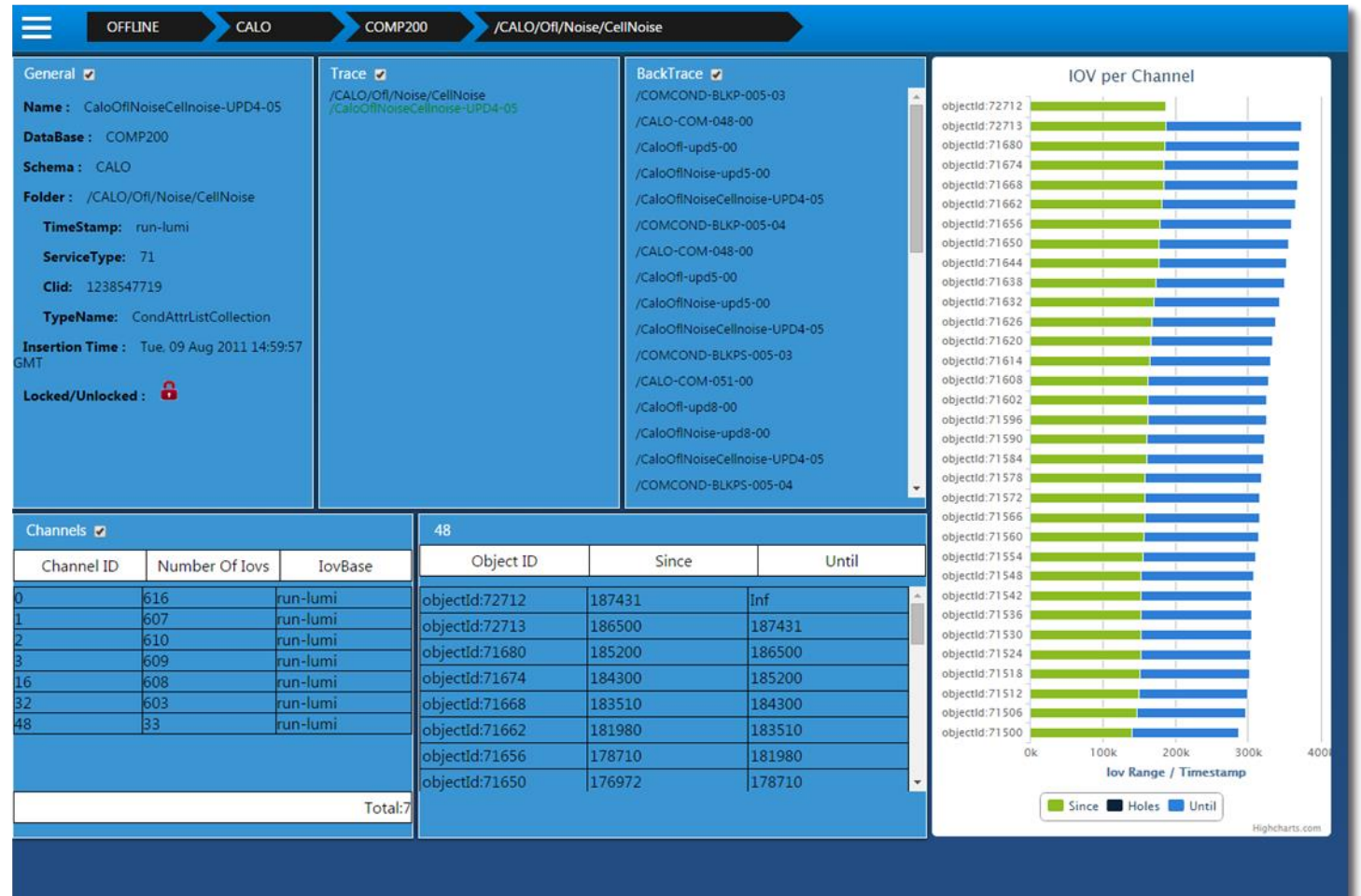
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Form v. Function

COOL Tag Browser

R11

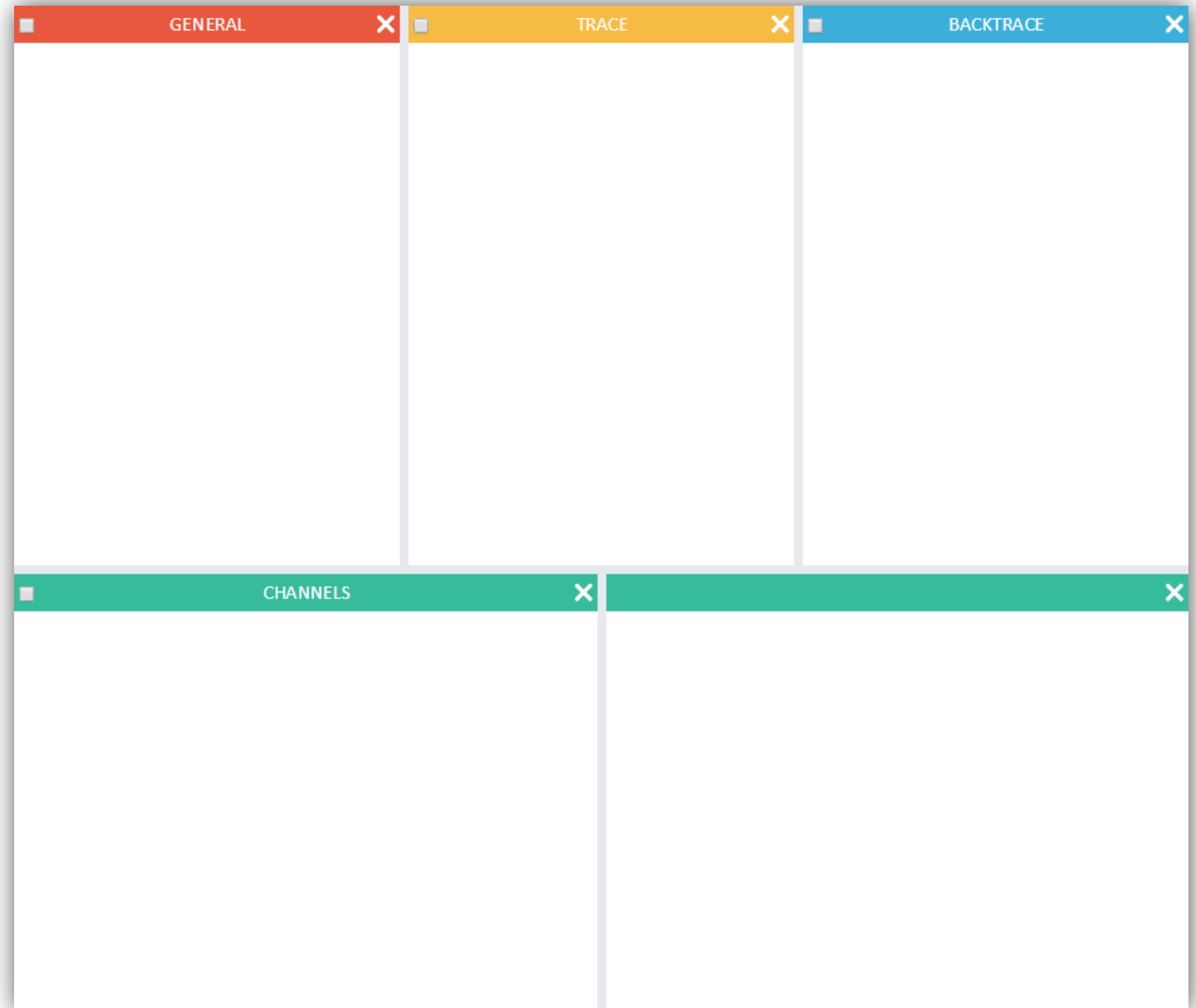
- More flexible;
- More intuitive;
- More blue!



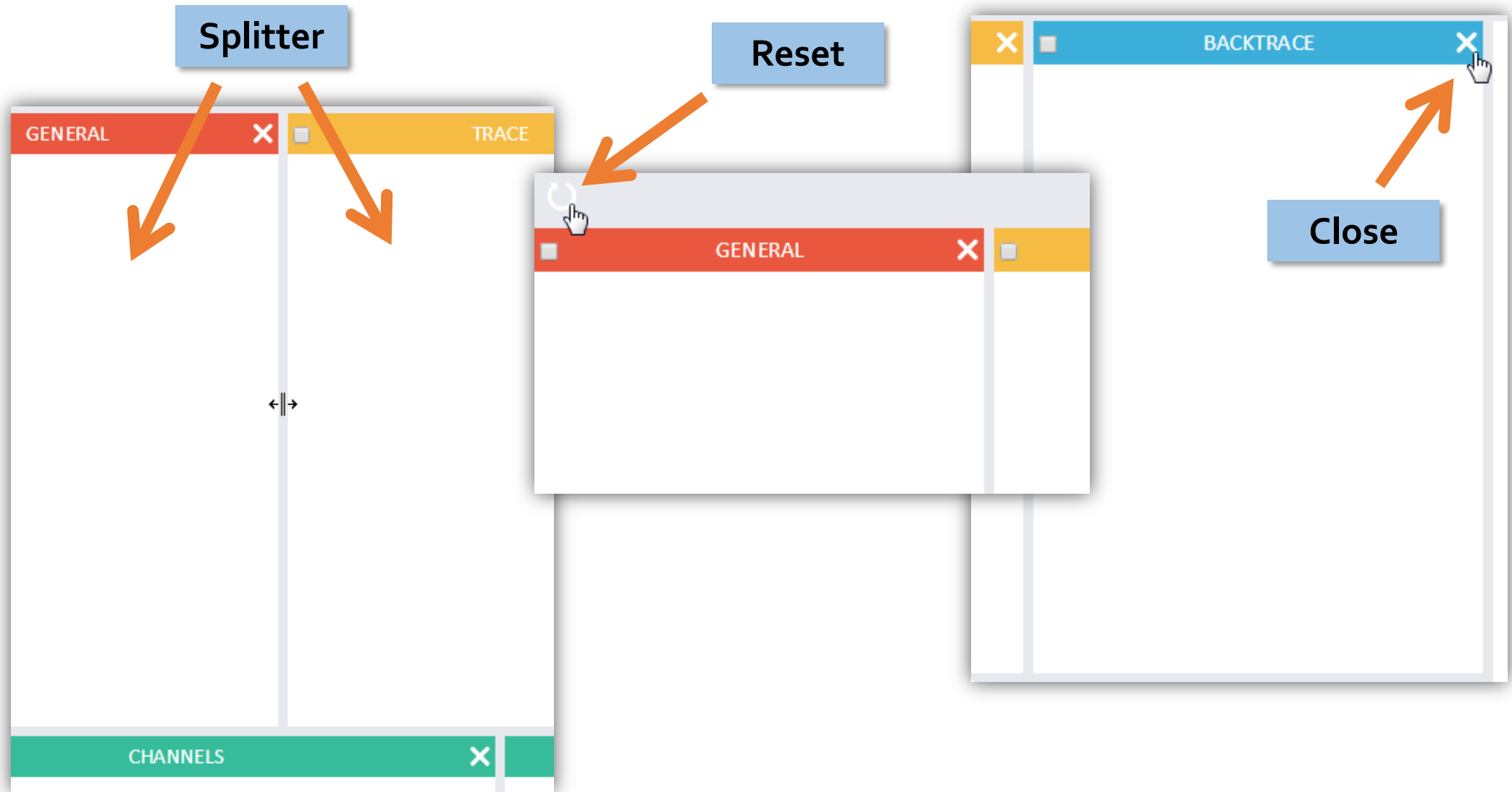
Coming Soon

COOL Tag Browser R11.9

- Even more flexible;
- Easier to customize;
 - Resize fields,
 - Omit extra data.
- Less blue!



Coming Soon



Coming Soon

The screenshot shows a software interface with three tabs: 'GENERAL' (red), 'TRACE' (orange), and 'CHANNELS' (green). The 'GENERAL' tab is active and contains the following information:

- Name : OFLCOND-MC12-ITK-25-40-25
- DataBase : OFLP200
- Schema : CALO
- Folder : /CALO/OfI/Noise/CellNoise
- TimeStamp:
- ServiceType:
- Clid:
- TypeName:

The 'TRACE' tab contains a list of file names, each preceded by a checked checkbox. The list includes:

- OFLCOND-MC12-ITK-25-40-25/BFieldMap-FullAsym-09
- OFLCOND-MC12-ITK-25-40-25/BTagCalibALL-07-01
- OFLCOND-MC12-ITK-25-40-25/BTagCalibIP1D-02-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibIP2D-03-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibIP3D-03-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibJetFitter-02-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibJetProb-03-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibSV1-03-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibSV2-02-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibSoftEl-01-00
- OFLCOND-MC12-ITK-25-40-25/BTagCalibSoftMu-02-00
- OFLCOND-MC12-ITK-25-40-25/CALOOflIdentifierCaloTTONAttridMapAtlas-0001
- OFLCOND-MC12-ITK-25-40-25/CALOOflIdentifierCaloTTONOffidMapAtlas-0002
- OFLCOND-MC12-ITK-25-40-25/CALOOflIdentifierCaloTTPmRxidMapAtlas-0000
- OFLCOND-MC12-ITK-25-40-25/CALOOflJetCalibEtaMassEnergyCorr-2012
- OFLCOND-MC12-ITK-25-40-25/CALOOflJetCalibJetPropertyInvertResponseTool-2011
- OFLCOND-MC12-ITK-25-40-25/CALOOflJetCalibMCNumInversionResponse-2011
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- OFLCOND-MC12-ITK-25-40-25/CALOOflJetCalibNumInvCone7Topo-01-000
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- OFLCOND-MC12-ITK-25-40-25/CALOOflJetCalibNumInvKt4H1Topo-01-000

The 'CHANNELS' tab is currently empty and has a green background.

Tick checkboxes to show the necessary info only!

Coming Soon

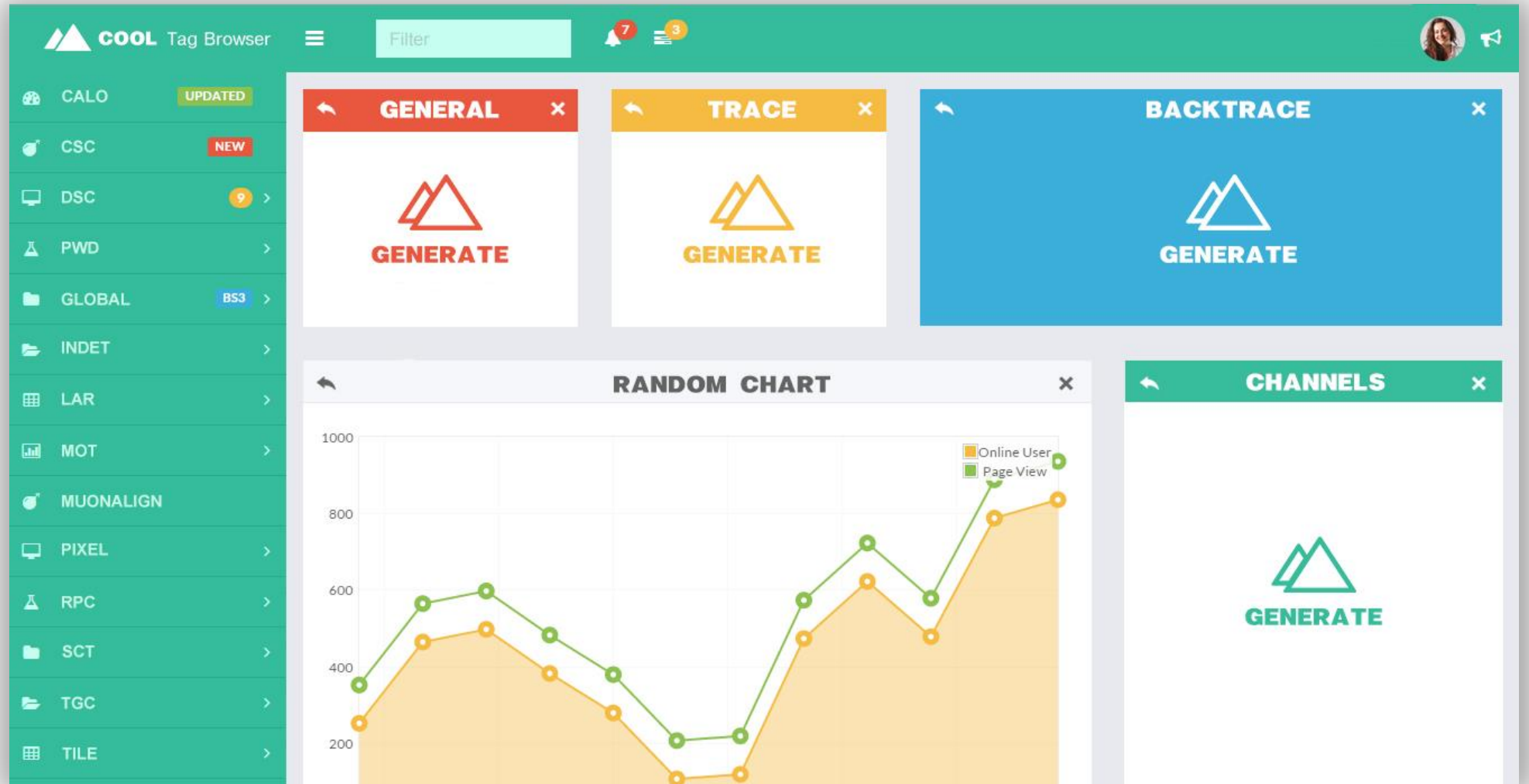
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COMCOND-BLKPST-003-00/CaloOfNoiseCellnoise-UPD4-00
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COMCOND-BLKPST-003-00/EGammaRes-0-0-2
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Maximize important fields to get a better look at tags.

Coming Soon

CTB 12.0

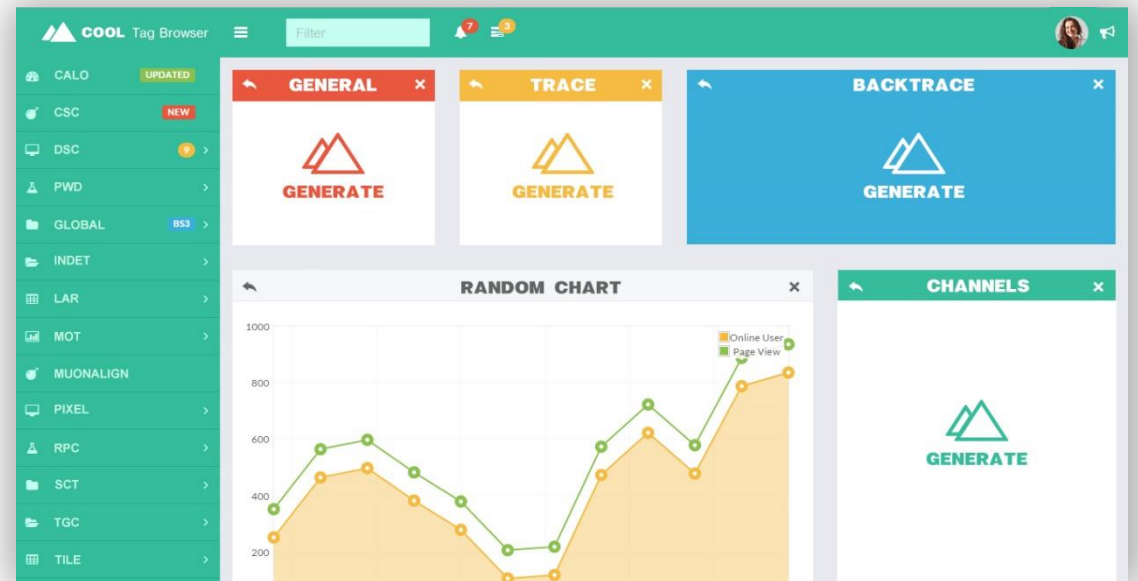
SAMPLE



Coming Soon

COOL Tag Browser 12.0

- Fully responsive;
- Fluid, flexible UI;
- Export/share data;
- Track tags.



Coming Soon

Timeline

- COOL Tag Browser 11.9
 - Nov. 2014
- COOL Tag Browser 12.0
 - Dec. 2014 – Jan. 2015

Just a random koala!

