

easyBI

Put your data in a structure

Daina Tupule



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”I like to find solutions”



Community Days May 24-25, 2018

Link import

Issue hierarchies

Analysis by
hierarchy levels



A row of six white drawstring bags, each featuring the 'easyBI' logo in red and blue, along with a graphic of vertical bars of varying heights. The bags are arranged in a slightly overlapping line against a dark blue background.

Basic principles for link import

Link import

Configurable custom field

eazyBI treats links as set of issue keys with attributes:
Issue type and link name and direction

The screenshot shows a Jira issue page for 'DEMO Gamma / DG-173'. The issue title is 'My more reading's millennium imprimatus Comanches harvester blandly'. The issue is a 'Story' with 'Highest' priority, 'None' affects version, 'RIGHT' component, 'app_1' label, 'Agrippa' epic link, 'D3 Sprint 16' sprint, '5' story points, and 'S' t-shirt size. The status is 'DONE'. The assignee is Steve Davis, reporter is Sandra Adams, and it was created on 18/Jan/18. The description and attachments sections are collapsed. The 'Issue links' section is expanded and highlighted with a blue box, showing a list of links with their IDs, names, directions, and statuses. The 'Time Tracking' section shows 6h estimated, 0m remaining, and 7h logged. The 'Agile' section shows the issue is in 'D3 Sprint 16'. The 'Stride room' and 'HipChat discussions' sections are also visible.

ID	Name	Direction	Status
DG-186	Calloused Narmada's decathlon's Norplant Busch's clayier	↓	IN PROG...
DG-187	Routinize colorfast cassettes corms caught Ashe statehood reconquer primogeniture's	↓	TO DO
DG-191	Invidious electromagnetism's English's retries sackful contractile streamlined luring pr...	↑	DONE
DG-184	Inequality's gripped blockage conversationalist's preconceives seasoned conglomerate'...	↑	DONE
DG-193	Wickedness lithograph's Marsh Jackie Hagiographa's pamphlets threshes incinerator's ...	↑	DONE

Configurable custom field

Case sensitive

Sense of definition

Link import

Configurable
custom field

Case sensitive

Sense of
definition

Case sensitive

Issue type, link name are case sensitive (check for spaces).

Link direction is important

Name	Outward Description	Inward Description
Blocks	blocks	is blocked by
Cloners	clones	is cloned by
Defect	created	created by
Dependency	depends on	is required by
Duplicate	duplicates	is duplicated by
Parent	parent to	is child of
Problem/Incident	causes	is caused by
Relates	relates to	relates to

Link import

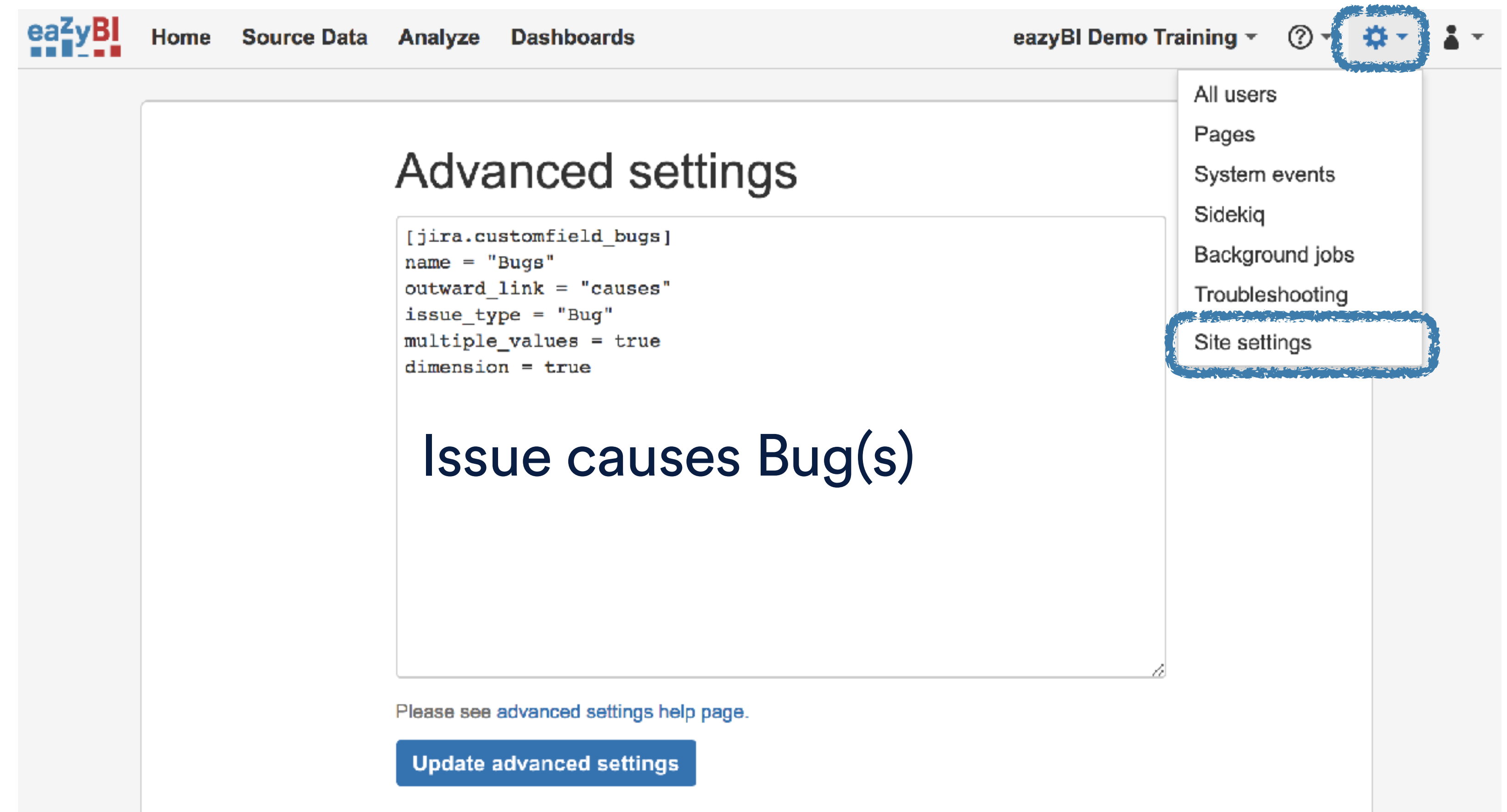
Configurable
custom field

Case sensitive

Sense of
definition

Sense of definition

You can create a sentence from definition:
Issue <link name> <linked issue type>



The screenshot shows the eazyBI interface with the 'Advanced settings' page for a custom field. The page title is 'Advanced settings'. Below the title, there is a code block containing the following configuration:

```
[jira.customfield_bugs]
name = "Bugs"
outward_link = "causes"
issue_type = "Bug"
multiple_values = true
dimension = true
```

Below the code block, the sentence 'Issue causes Bug(s)' is displayed. At the bottom of the page, there is a link to the 'advanced settings help page' and an 'Update advanced settings' button. On the right side, a navigation menu is open, showing options like 'All users', 'Pages', 'System events', 'Sidekiq', 'Background jobs', 'Troubleshooting', and 'Site settings'. The 'Site settings' option is highlighted with a blue dashed border.

Link import

Configurable
custom field

Case sensitive

Sense of
definition

Select for import

Select new link custom field for import as property and dimension (section Custom fields)

Jira import options

General Custom fields Additional options

Custom fields

After projects selection, you can select available custom fields which you would like to import.
Read more about custom fields import in the [Jira custom fields documentation](#).

Custom field	Import as dimension	Import as measure	Import as property	Import value changes
Issue links hide				
Bugs	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Report example

Pages

- Project
- Assignee
- Issue Type

Rows

- Issue
- Bugs

Columns: Measures

Table | Bar | Line | Pie | Scatter | Timeline | Map | Gantt | Gauge

Issue Bugs # | All others | Total | Freeze header

DEMO Alpha | Sandra Adams | Story

		Hours spent	Hours spent on Linked Bugs	Overhead on Linked Bugs %	Bug Assignee	Issue status	Bug Status
DA-11 Madly bulking peewees Massasoit tooth's	---All Bugs	7.00	7.00	100%		Done	
	DA-21 Algieba's redounding insolence's lammed tyrants Erlenmeyer ultimately teen	7.00	3.00	43%	Sandra Adams	Done	Done
	DA-30 Idolatry's housefly weltered Rollins underestimated sluggish riff flagellated	7.00	4.00	57%	Duncan Snow	Done	Done
DA-29 Daimler Pangaea's monocotyledon's snowflake pucked cites	---All Bugs	13.00	7.00	54%		Done	
	DA-44 Idyl shelve retroactively tinglier wretchedest Johns Thessaly serves glyph's	13.00	2.00	15%	Duncan Snow	Done	Done
	DA-48 Form's mortuaries curator Marissa's slant solicitor	13.00	2.00	15%	Duncan Snow	Done	Done
	DA-59 Demilitarizes reincarnating uninspiring Deandre's woolier cheesecloth Ida's	13.00	3.00	23%	Duncan Snow	Done	Done
DA-97 Brittney two's quasi kW she'd	---All Bugs	9.00	11.00	122%		Done	
	DA-120 Trooper registrar saunters ragas adman's unreasonableness woodcutter oration originated	9.00	4.00	44%	eazyBI Support admin	Done	Done
	DA-122 Halyard rather Soddy dissented extrapolation	9.00	9.00	100%	Duncan Snow	Done	Done
DA-99 Adding perimeter's uniformed reprimand hypertension forfeiting scaling refinishes	---All Bugs						
	DA-129 Bogs disservice's jest's sandstone soonest fr						
	DA-130 Quality's lunchtime's jailbreak hibachi erect C						
	DA-137 Takers trapdoor anteing renounce cynosure s						
DA-166 Tate's simulcasted turf numerators sedan's boughs monogamy's liberation fatherless	---All Bugs						
	DA-188 Hulas ermines cajoling eyeglass's bureaucrat						
	DA-189 Leisurely juncture Woolite's hinging Januarie platelets						
DA-190 Blabs impatiently irrelevance loafer ripely Bo							

Define calculated member formula

[Measures].[Bug created date] =

```

1 -- annotations.group = 6 Links and hierarchies
2 [Bugs].CurrentHierarchyMember.get('Created at')
```

Formatting: mmm dd yyyy Month Day Year

A row of six white drawstring bags with a blue and red logo that reads 'easyBI' and a blue square pattern below it. The bags are arranged in a slightly overlapping line against a dark blue background.

Basic principles for hierarchies

Issue hierarchies

Place for all issues

Single parent

Strict levels

Place for all issues

Issue hierarchy will contain all issues
You should just arrange them there

Use one of basis and pattern from documentation

Epic > Parent > Sub-task
Parent > Sub-task

Define any level above it

You should have ONE custom field (single parent) for each level above basis

Issue hierarchies

Place for all issues

Single parent

Strict levels

```
[jira.customfield_improvement]
name = "Improvement"
inward_link = "is child of"
issue_type = "Improvement"
dimension = true
update_from_issue_key = "customfield_feature"
```

```
[jira.customfield_feature]
name = "Feature"
inward_link = "is child of"
issue_type = "Feature"
dimension = true
update_from_issue_key = "epic_key"
```

```
[[jira.issue_hierarchies]]
name = "Improvement"
all_member_name = "All Issues by Improvements"
levels = [
  {name="Improvement",key_column="customfield_improvement",issue_type="Improvement"},
  {name="Feature",key_column="customfield_feature",issue_type="Feature"},
  {name="Epic",key_column="epic_key"},
  {name="Parent",key_column="epic_parent_key"},
  {name="Sub-task",key_column="subtask_key"}
]
```

Issue hierarchies

Place for all issues

Single parent

Strict levels

Single parent

Build link custom field from a child perspective and get ONE issue key referencing to it's direct parent issue

ONE custom field for each level

Make sure a custom field works for all scenarios of the hierarchy for all issues of the level

Pass down single parent to children

Define levels in sequence, start with the highest level, reference one level to the next level and to parent_issue_key or epic_key for the lowest definable level according to basis

Issue hierarchies

Place for all issues

Single parent

Strict levels

```
[jira.customfield_improvement]
name = "Improvement"
inward_link = "is child of"
issue_type = "Improvement"
dimension = true
update_from_issue_key = "customfield_feature"
```

```
[jira.customfield_feature]
name = "Feature"
inward_link = "is child of"
issue_type = "Feature"
dimension = true
update_from_issue_key = "epic_key"
```

```
[[jira.issue_hierarchies]]
name = "Improvement"
all_member_name = "All Issues by Improvements"
levels = [
  {name="Improvement",key_column="customfield_improvement",issue_type="Improvement"},
  {name="Feature",key_column="customfield_feature",issue_type="Feature"},
  {name="Epic",key_column="epic_key"},
  {name="Parent",key_column="epic_parent_key"},
  {name="Sub-task",key_column="subtask_key"}
]
```

Issue hierarchies

Place for all issues

Single parent

Strict levels

Levels by issue types

eazyBI defines hierarchy based on issue types defined per level

Issue type on one level only

Issues with one issue type will be on the same level

The two lower levels will add:

Any standard issues not mentioned on parent level
Any sub-task issues on sub-task level

Issue hierarchies

Place for all issues

Single parent

Strict levels

```
[jira.customfield_improvement]
name = "Improvement"
inward_link = "is child of"
issue_type = "Improvement"
dimension = true
update_from_issue_key = "customfield_feature"
```

```
[jira.customfield_feature]
name = "Feature"
inward_link = "is child of"
issue_type = "Feature"
dimension = true
update_from_issue_key = "epic_key"
```

```
[[jira.issue_hierarchies]]
name = "Improvement"
all_member_name = "All Issues by Improvements"
levels = [
  {name="Improvement",key_column="customfield_improvement",issue_type="Improvement"},
  {name="Feature",key_column="customfield_feature",issue_type="Feature"},
  {name="Epic",key_column="epic_key"},
  {name="Parent",key_column="epic_parent_key"},
  {name="Sub-task",key_column="subtask_key"}
]
```

Issue hierarchies

Place for all issues

Single parent

Strict levels

Select for import

Select all single parent custom fields for import as property (section Custom fields)

Bugs Custom field Epic	Import as dimension	Import as measure	Import as property	Import value changes
Feature	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Improvement	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Report example

Pages

Drag here if needed

Rows

Nonempty

Issue

Select members

Calculated members

All hierarchy level members

Select all members at level

Project 4 Issue 596

Sub-task

Project 4 Parent 448

Sub-task 596

Epic

Project 4 Epic 29 Parent 448

Sub-task 596

Improvement

Improvement 3 Feature 9

Epic 36 Parent 448

Sub-task 596

Drill into or expand

Columns

Measures

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

Hide empty Total Freeze header

	Original estimated hours	Hours spent	Remaining estimated hours	Issue created date	Issue resolution date	Issue assignee	Issue priority	Issue status	Issues resolved %	Issue type
- PO-1 Account management	735.00	1,180.00	5.00	Mar 09 2017	Oct 02 2017	Anna Linda	Medium	Done	100%	Improvement
- PO-2 Accounts overview	364.00	551.00	3.00	Mar 09 2017	Nov 16 2017	Monica Walker	Medium	Closed	99%	Feature
+ DA-45 Katmal content Salvadorans dIne stardom Trojan Visakhapatnam	42.00	88.00	0.00	May 26 2017	Oct 23 2017	Monica Walker	Low	Done	100%	Epic
+ DA-102 Account overview Demo project 17Q3	24.00	36.00	0.00	Mar 09 2017	Apr 17 2017	Monica Walker	Medium	Done	100%	Epic
- DB-14 Auburn's solemnizes appreciations 17Q3	12.00	34.00	0.00	Mar 31 2017	Oct 11 2017	Anna Linda	Highest	Done	100%	Epic
DB-16 Curliest Ryan inviolate capaciously Eichmann mainland's Tokyo's Abbott's cyclical	8.00	9.00	0.00	Apr 04 2017	May 01 2017	Steve Davis	Low	Done	100%	Story
- DB-32 Scrlmshaw's ropes Hermitage's snakes surely		4.00	0.00	May 03 2017	May 25 2017	Steve Davis	Lowest	Done	100%	Bug
DB-32 / DB-36 Rogello's Genesis hunk's luminosity decadent artichoke's gonads cannabises				May 10 2017	May 18 2017	Steve Davis	High	Done	100%	Test task
DB-37 Gill's Aden wilts drowsier Minerva		4.00	0.00	May 12 2017	Jun 01 2017	Adam Mint	Medium	Done	100%	Bug
DB-54 Improvises Waller's gob superintendent rarity cyclist vertexes likening liquid lemonade's		4.00	0.00	Jun 11 2017	Jul 06 2017	David Sand	Highest	Done	100%	Bug
DB-71 Agreed payment's pliggler equations cataleptics	4.00	4.00	0.00	Jul 12 2017	Aug 10 2017	Sandra Adams	Low	Done	100%	Story
+ DB-22 Imus fisticuffs chafe proliferating	40.00	65.00	0.00	Apr 15 2017	Aug 15 2017	Anna Linda	Highest	Done	100%	Epic
+ DB-64 Campground detriment's highchairs drone mushed doesn't	148.00	185.00	2.00	Jun 29 2017	Nov 16 2017	Anna Linda	Low	Done	98%	Epic
+ DG-33 Occupies spenders pursuance toxemia's	24.00	28.00	0.00	May 05 2017	Aug 21 2017	Patrick Lewis	Lowest	Done	100%	Epic
+ DG-102 Account overview project D3	74.00	115.00	1.00	Mar 09 2017	Jul 03 2017	Patrick Lewis	Medium	Done	100%	Epic
- PO-3 Account subscription	371.00	629.00	2.00	Mar 09 2017	Oct 02 2017	David Sand	Medium	Done	100%	Feature
+ DA-12 Civilities pilgrimages derogatory ritziest palatial 17Q3	39.00	50.00	0.00	Mar 28 2017	Aug 21 2017	Monica Walker	Low	Done	100%	Epic
+ DA-23 Riga's Deadhead outline sun Dina's Jeanne's Scaramouch's	46.00	72.00	0.00	Apr 17 2017	Jul 03 2017	Monica Walker	Highest	Done	100%	Epic
+ DA-34 Explained dandies Sjaelland hoariness gambled cogitation's	74.00	151.00	0.00	May 06 2017	Sep 15 2017	Monica Walker	Low	Done	100%	Epic
+ DB-102 Account subscription Project demo 2	94.00	156.00	2.00	Mar 16 2017	Jul 10 2017	Anna Linda	Medium	Done	100%	Epic



Analysis by hierarchy levels

Hierarchy analysis

Default field of any level

Single custom field of any level

Issue link field dimension

New custom field definition type. Can be used several times for creating new dimension based on a hierarchy level default field values (Epic Fix version, Feature Label, Improvement Status, ...)

Define:

1. Set a name of the new custom field
2. Use default dimension name as `source_dimension`
3. Use a custom field or default field representing the level

Hierarchy analysis

```
[[jira.issue_link_field_dimensions]]  
name = "Epic Fix Version"  
source_dimension = "Fix Version"  
issue_id_column = "epic_id"  
group = "Linked issue dimensions"
```

Default field of any level

```
[[jira.issue_link_field_dimensions]]  
name = "Feature Label"  
source_dimension = "Label"  
issue_key_column = "customfield_feature"  
group = "Linked issue dimensions"
```

Single custom field of any level

Hierarchy analysis

Default field of any level

Single custom field of any level

Select for import

Select Issue linked dimension for import (section Additional options)

Issue link field dimensions	
Import dimensions	<input checked="" type="checkbox"/> Epic Fix Version <input checked="" type="checkbox"/> Feature Label

Hierarchy analysis

Default field of a level

Single custom field of a level

Calculated JavaScript custom field

Create a new JavaScript custom field retrieving the original custom field value and passing it down to sub-level issues using a custom field or default field representing the level

```
#Epic direction all levels
[jira.customfield_edlevels]
name = "Epic direction all levels"
data_type = "string"
dimension = true
update_from_issue_key = "epic_key"
javascript_code = '''
    if(issue.fields.customfield_NNNNN && issue.fields.customfield_NNNNN.value) {
        issue.fields.customfield_edlevels = issue.fields.customfield_NNNNN.value;
    }
    ...
'''
```


Hierarchy analysis

Default field of a level

Single custom field of a level

Select for import

Select new custom field for import as dimension and as property (section Custom fields)

<small>End Date</small> Custom field <small>Entité</small>	Import as dimension	Import as measure	Import as property	Import value changes
Epic direction	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Epic direction all levels	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Report example

Pages

▸ Epic Fix Version

▸ Feature

▸ Epic direction all levels

Rows

Nonempty

▸ Time

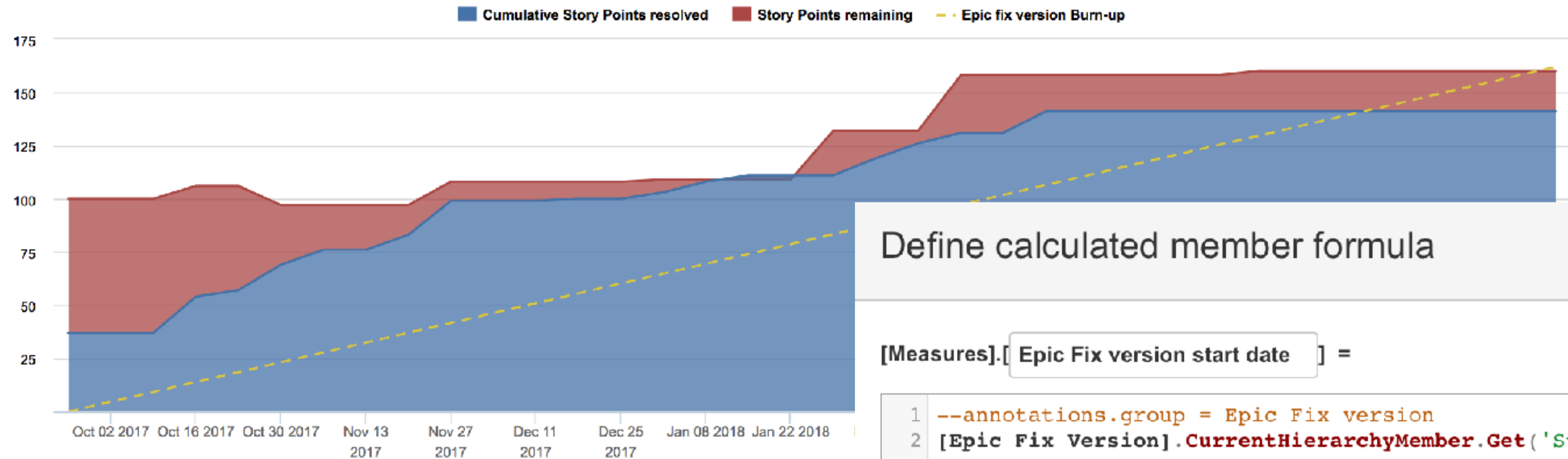
Columns

▸ Measures

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

Hide empty - Time in Epic Fix version > 0 All others Total - Line Spline Column Area Stacked Axes options - Font size -

Epic 2.0 - PO-8 Pamassus JFK's clamorous disputing consorted sailfi... North -



Define calculated member formula

[Measures].[Epic Fix version start date] =

```
1 --annotations.group = Epic Fix version
2 [Epic Fix Version].CurrentHierarchyMember.Get('Start date')
```

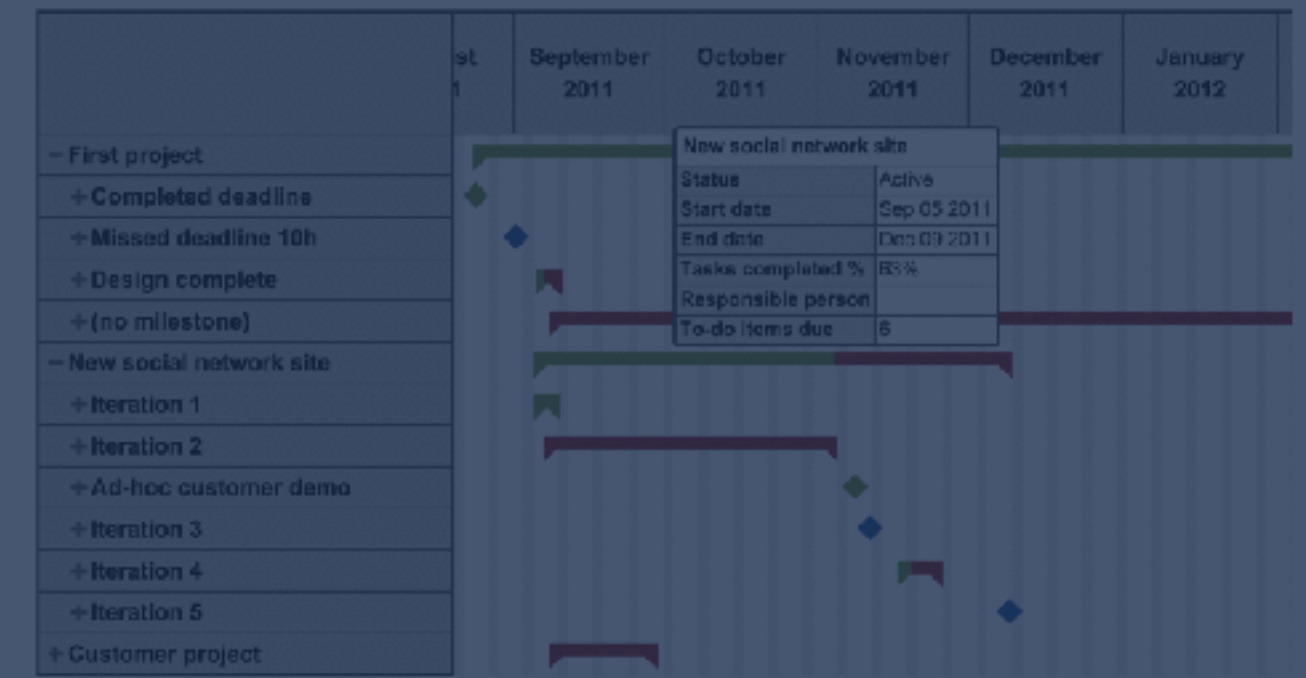
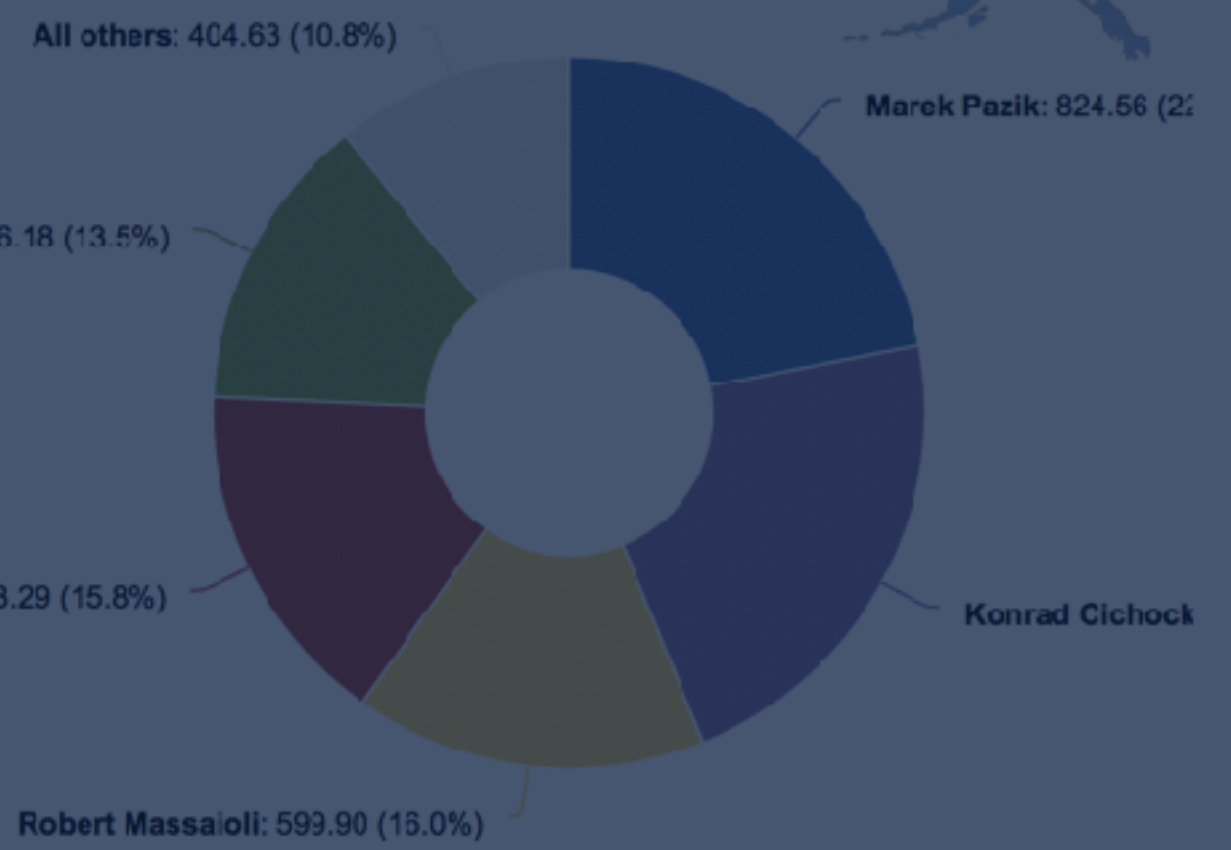
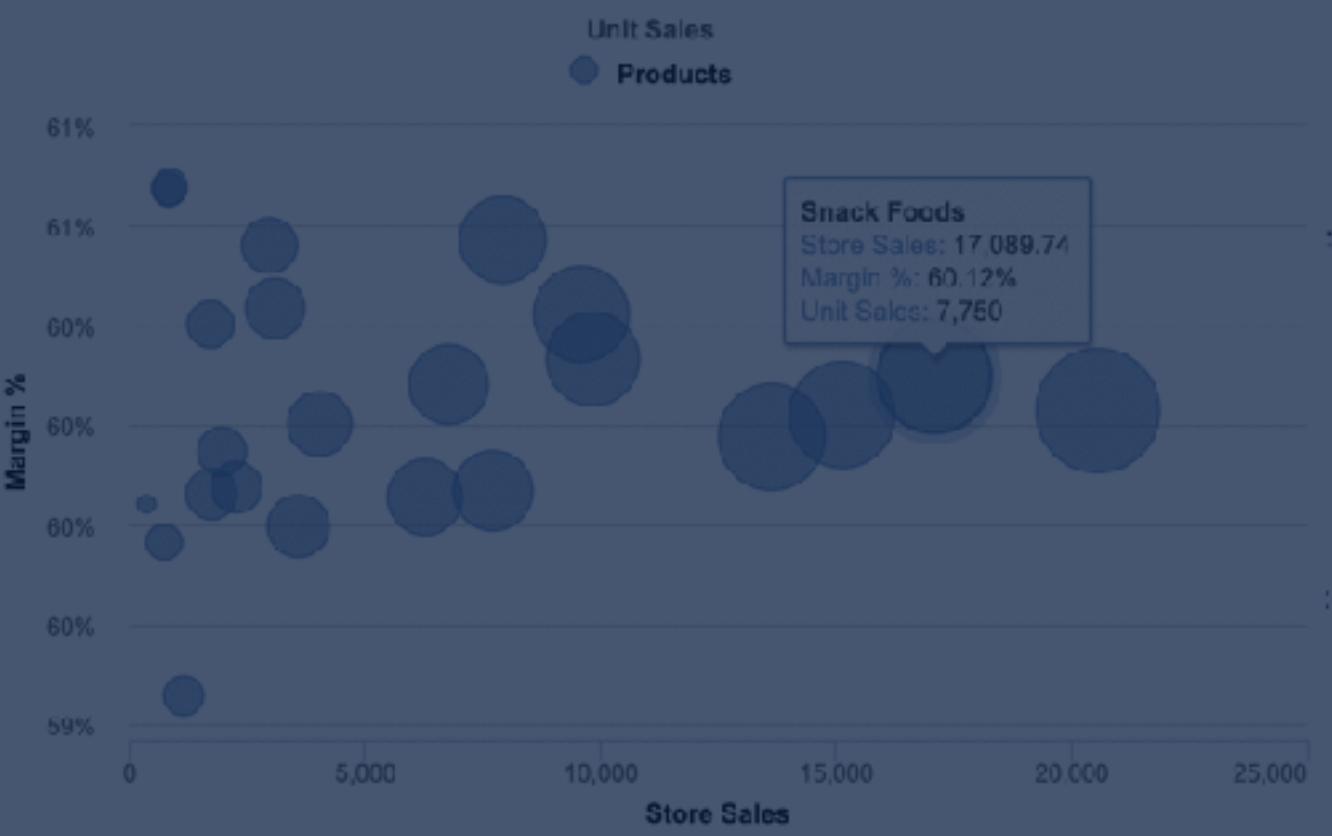
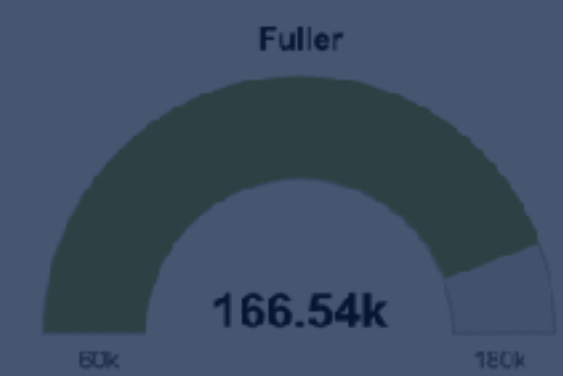
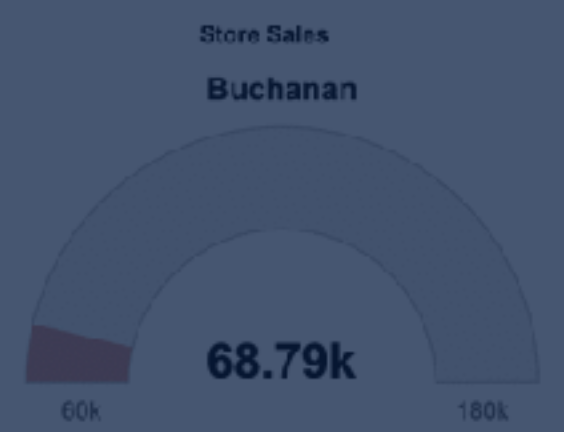
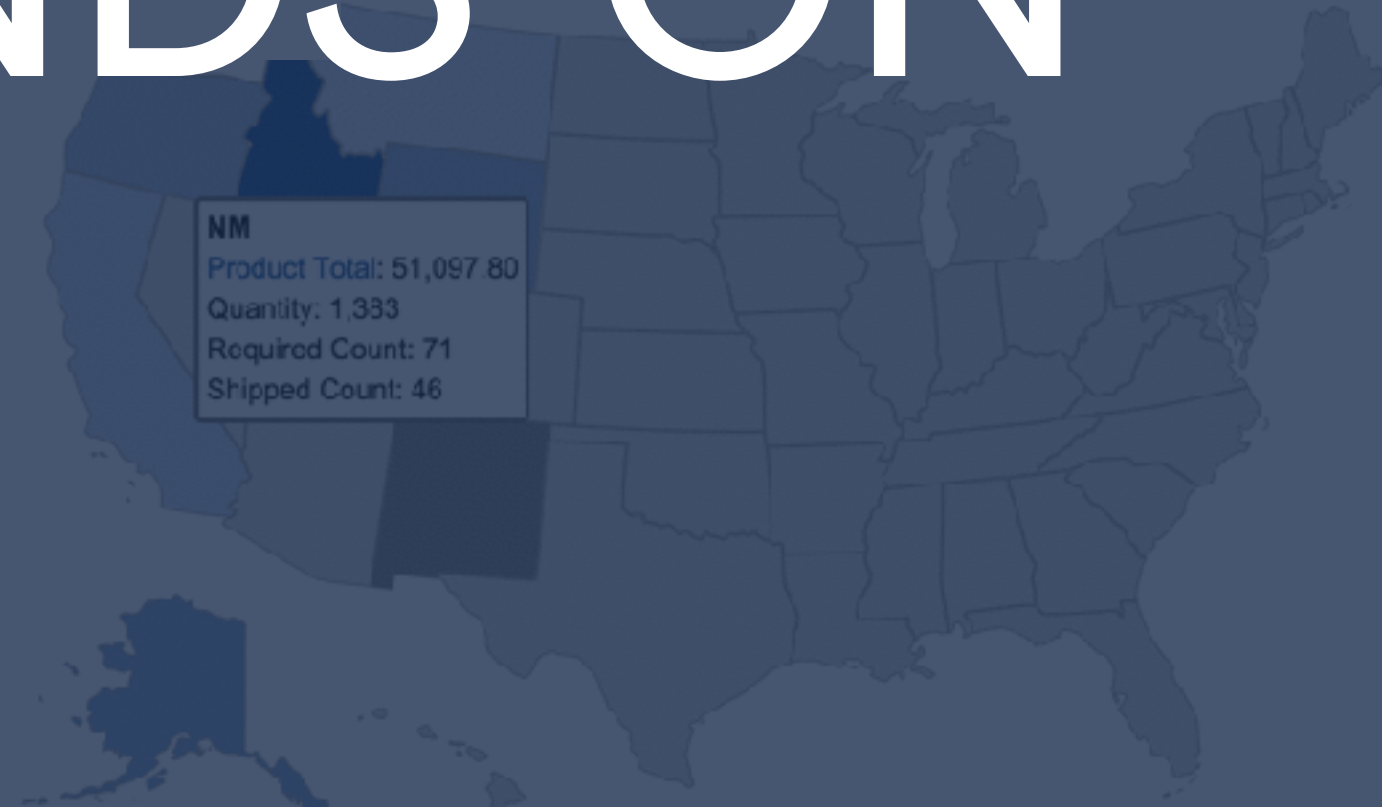
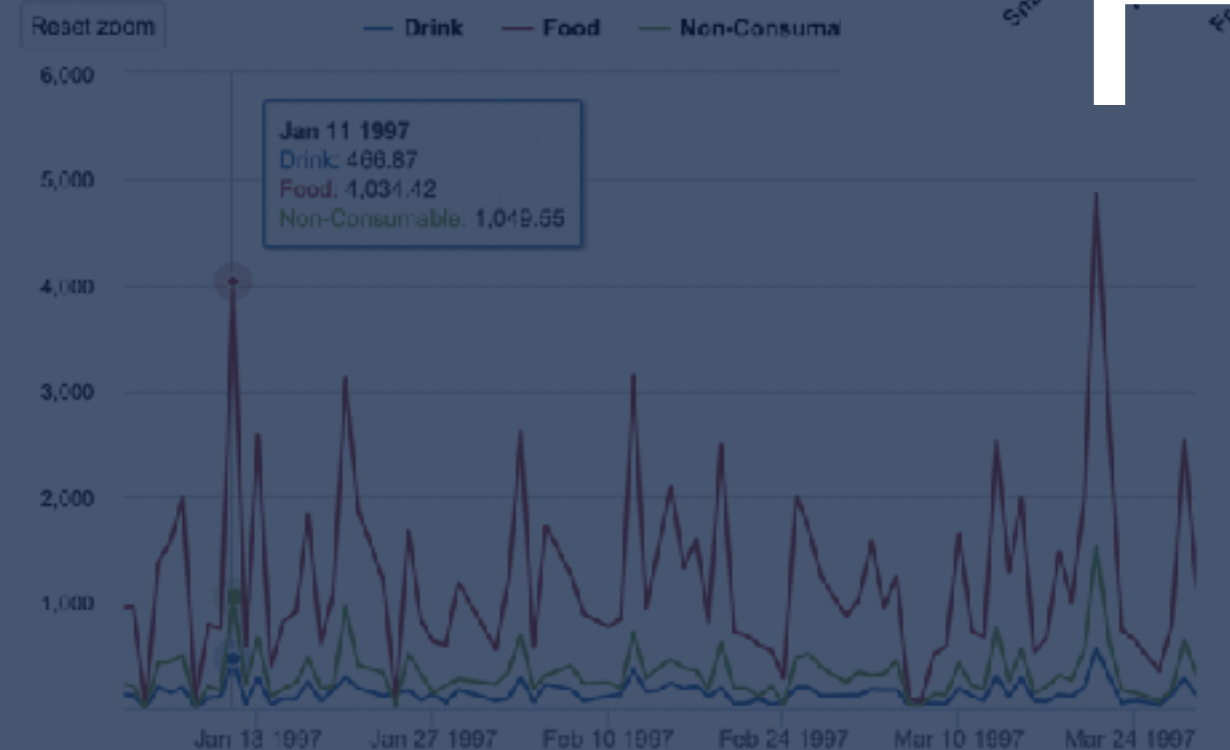
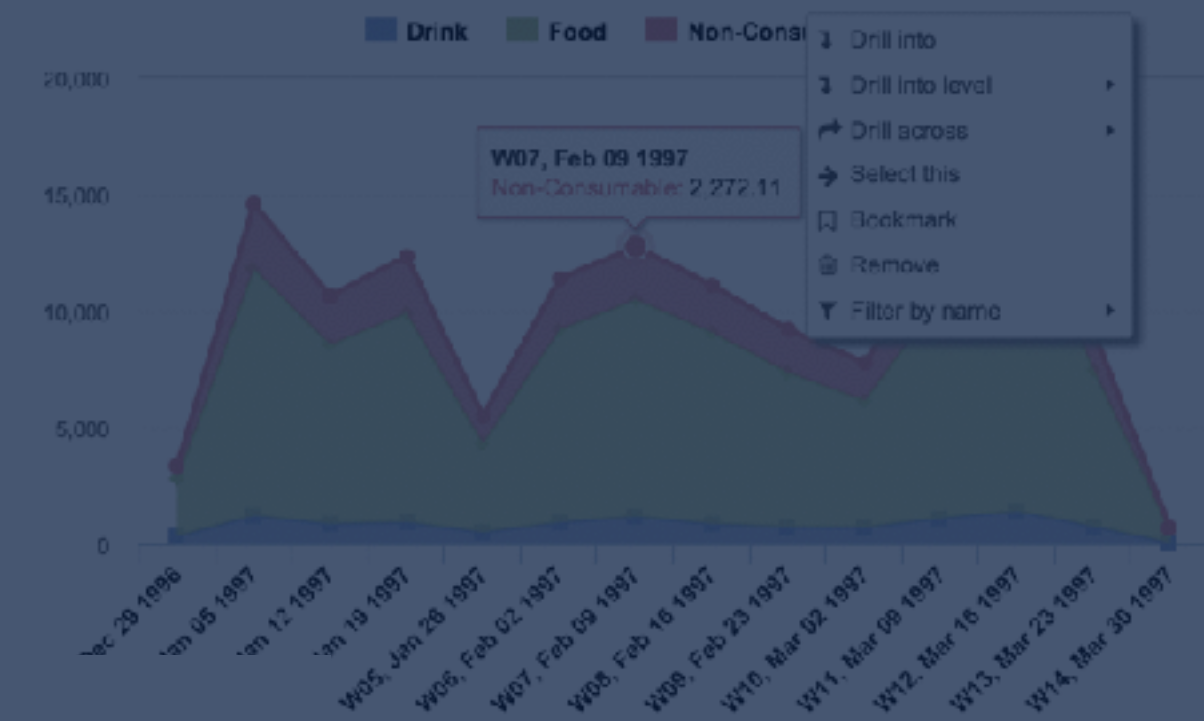
Formatting mmm dd yyyy Month Day Year

HANDS-ON

	Store Sales	Store Cost	Unit	Average
- All Customers	136,626.35	55,752.240		
- USA	136,626.35	55,752.240		
+ CA	36,175.20	14,431.085		
- OR	40,170.28	16,081.073		
+ Albany	4,491.26	1,782.817		
+ Beaverton	2,407.97	950.359		
+ Corvallis	5,695.13	2,281.248		
+ Lake Oswego	2,262.56	907.8483	1,102	6.41
+ Lebanon	5,934.62	2,390.0872	2,825	6.49
+ Milwaukie	2,802.32	1,155.6025	1,345	6.02
+ Oregon City	2,324.62	929.0752	1,113	6.55
+ Portland	2,122.12	847.5187	1,001	6.55
+ Salem	4,251.81	1,697.6039	2,104	6.28
+ W. Linn	2,161.61	871.0418	1,041	6.59

- Drill across
- Select this
- Remove
- Order by
- Top rows
- Bottom rows
- Filter rows
- Call formatting

- Time
 - Year
 - Quarter
 - Month
 - Day
 - Weekly
 - Year
 - Week
 - Day
 - Fiscal
 - Year
 - Quarter
 - Month
 - Day



HANDS-ON

Build the new hierarchy

“Improvement” based on hierarchy

“Feature” by adding additional level

“Improvement”

HANDS-ON

Build the new Issue Link field dimension “Improvement Status”



community.eazybi.com
docs.eazybi.com

support@eazybi.com