ConfiForms Filters by example

⚠ This is valid for ConfiForms cloud!

ⓘ This is a page to show how to use ConfiForms Filters by example

ConfiForms filters is the core component of the app and is used absolutely everywhere where you need to describe a condition, filter the dataset or setup the behaviour (field and IFTTT rules)

In this example we will be more focused on filtering the data, but will also touch the basics of a conditionally applied rules

Let's consider these forms that will, logically, build the bookshelf. Each book can be taken for reading and returned when ready. We will have a form for storing this state and couple of forms to store the data about the book and the author(s)

We have 3 forms

- bookshelf
- books
- author

linked together using smart fields (see how on the right, in data structures section)

So, one **book** may have multiple **authors** and is on a **bookshelf**

Data structures:

Form: bookshelf	
book	Smart dropdown referencing form "books", and showing "book title"
status	Dropdown field

ID	Label
avail	Available
lost	Lost
taken	Taken

Form: bookshelf (cont.)	
takeBook	Action button to take the book, sets

```
status=taken&takenBy=[entry._user]
```

returnBook	Action button to return the book, sets

```
status=avail&takenBy=
```

takenBy	User

Form: books	
title	Text field holding a book title
authors	Smart multi-select field referencing "authors" form and showing authors last name and first name

```
[entry.lastName], [entry.firstName]
```

Form "books" has an IFTTT rule to "auto-create" a record in the "bookshelf" form when a new book is added

Event *

onCreated ⇕

Choose Action to perform *

Create / Update ConfiForms Entry ⇕

Fire IFTTT action only when this condition/filter is met

If left empty then IFTTT action is always executed when an event is occurred. You can use [entry.FIELD_NAME] to reference values of the record. Same syntax expected as in filters

Parameters to set on the entry

book=[entry.id]&status=avail

Form: author	
firstName	Text field holding author's first name
lastName	Test field holding author's last name
dob	Simple date to store author's "date of birth"

Filters by example:

To show all books, we will leave filter property empty

Book	Authors	Status
Mad About the Boy	⚬⚬	Taken
Still Me	⚬⚬	Available
An American Marriage	⚬⚬	Available
Us Against You	⚬⚬	Available
Nine Perfect Strangers	⚬⚬	Available
An Absolutely Remarkable Thing	⚬⚬	Available
Killing Commendatore	⚬⚬⚬ ⚬	Available
There There	⚬⚬	Available

```
No filter, showing all books in the bookshelf
```

Title		Status
Girls Burn Brighter	⬭⬭	Available
All We Ever Wanted	⬭⬭	Available
After Dark	⬭⬭	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	⬭⬭	Available
The Giver of Stars	⬭⬭	Taken
One Plus One	⬭⬭	Available
The Girl You Left Behind	⬭⬭	Available
The Ship of Brides	⬭⬭	Available
Silver Bay	⬭⬭	Available
Three Wishes	⬭⬭	Available
The Husband's Secret	⬭⬭	Available
Truly Madly Guilty	⬭⬭	Available
Bridget Jones's Diary	⬭⬭	Available
Bridget Jones: The Edge of Reason	⬭⬭	Available
Cause Celeb	⬭⬭	Available
New Beginnings	⬭⬭	Available
The Untelling	⬭⬭	Taken
Silver Sparrow	⬭⬭	Taken
Leaving Atlanta	⬭⬭	Available
Pride and Prejudice	⬭⬭	Available
Baby Proof	⬭⬭	Available
Heart of the Matter	⬭⬭	Available
First Comes Love	⬭⬭	Available
Eat, Pray, Love	⬭⬭	Taken
The Glass Castle		Available

| The Diary of a Young Girl | | Available |
| City of Girls | ⬭⬭ | Available |

To show only available books we should use for filter expression: **status: avail**, where **status** is the field name of bookshelf form and **avail** is the **id** of one of the status values in dropdown list

```
status:avail
```

Book	Status
Still Me	Available
An American Marriage	Available
Us Against You	Available
Nine Perfect Strangers	Available
An Absolutely Remarkable Thing	Available
Killing Commendatore	Available
There There	Available
Girls Burn Brighter	Available
All We Ever Wanted	Available
After Dark	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	Available
One Plus One	Available
The Girl You Left Behind	Available
The Ship of Brides	Available
Silver Bay	Available
Three Wishes	Available
The Husband's Secret	Available
Truly Madly Guilty	Available
Bridget Jones's Diary	Available
Bridget Jones: The Edge of Reason	Available
Cause Celeb	Available
New Beginnings	Available
Leaving Atlanta	Available
Pride and Prejudice	Available
Baby Proof	Available
Heart of the Matter	Available
First Comes Love	Available

The Glass Castle	Available
The Diary of a Young Girl	Available
City of Girls	Available

To show books taken only by current user, we should use for filter expression: **takenBy:[entry._user]**, where **takenBy** is the field name and **_user** is built-in property of form to get value of current user

```
takenBy:[entry._user]
```

Book	Authors	Status
Still Me	⬭⬭	Available
An American Marriage	⬭⬭	Available
Us Against You	⬭⬭	Available
Nine Perfect Strangers	⬭⬭	Available
An Absolutely Remarkable Thing	⬭⬭	Available
Killing Commendatore	⬭⬭⬭ ⬭	Available
There There	⬭⬭	Available
Girls Burn Brighter	⬭⬭	Available
All We Ever Wanted	⬭⬭	Available
After Dark	⬭⬭	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	⬭⬭	Available
One Plus One	⬭⬭	Available
The Girl You Left Behind	⬭⬭	Available
The Ship of Brides	⬭⬭	Available
Silver Bay	⬭⬭	Available
Three Wishes	⬭⬭	Available
The Husband's Secret	⬭⬭	Available
Truly Madly Guilty	⬭⬭	Available

Book		Status
Bridget Jones's Diary	⬯⬯	Available
Bridget Jones: The Edge of Reason	⬯⬯	Available
Cause Celeb	⬯⬯	Available
New Beginnings	⬯⬯	Available
Leaving Atlanta	⬯⬯	Available
Pride and Prejudice	⬯⬯	Available
Baby Proof	⬯⬯	Available
Heart of the Matter	⬯⬯	Available
First Comes Love	⬯⬯	Available
The Glass Castle		Available
The Diary of a Young Girl		Available
City of Girls	⬯⬯	Available

To find books which title starts from word "The", we should use for filter expression: **The***

```
book.title:The*
```

Book	Status
There There	Available
The Giver of Stars	Taken
The Girl You Left Behind	Available
The Ship of Brides	Available
The Husband's Secret	Available
The Untelling	Taken
The Glass Castle	Available

To find books which any field starts from word "Bridget", we should use for filter expression: **Bridget***

```
Bridget*
```

Transformation of authors: book.authors.transform(lastName.append([entry.firstName.prepend(,)]))

Book	Authors	Status

Bridget Jones's Diary	[Fielding, Helen]	Available
Bridget Jones: The Edge of Reason	[Fielding, Helen]	Available

To find books which any field ends with word "love", we should use for filter expression: *** love**

```
*love
```

Book	Status
First Comes Love	Available
Eat, Pray, Love	Taken

To find books which any field contains word "and", we should use for filter expression: ***and***

```
*and*
```

Book	Status
Colorless Tsukuru Tazaki and His Years of Pilgrimage	Available
The Husband's Secret	Available
Pride and Prejudice	Available

To find books which authors born before 01.01.1950, we should use for filter expression: **book.authors.dob.formatDate(yyyyMMdd): <19500101 ,** where **book.** is the bookshelf form's field of Smart Dropdown type, which is reference to books form record and **authors.** in its turn is the books form's field of Smart Multiselect type, which is reference to author form record and **dob** is the field name of author form, which is transformed by virtual function **formatDate**.

```
book.authors.dob.formatDate(yyyyMMdd):<19500101
```

Book	Status
After Dark	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	Available

To find books which status is Available and title starts with word 'The', we should use for filter expression logical operations:

book.title:The* AND status:avail

```
book.title:The* AND status:avail
```

Book	Authors	Status
There There	⬭⬭	Available
The Girl You Left Behind	⬭⬭	Available
The Ship of Brides	⬭⬭	Available
The Husband's Secret	⬭⬭	Available

The Glass Castle		Available

To find books which title starts with word 'The' or available books of Jojo Moyes, we should use for filter expression logical operations:

book.title:The* OR book.authors.lastName:Moyes AND status:avail

```
book.title:The* OR book.authors.lastName:Moyes AND
status:avail
```

Book	Authors	Status
There There	⬭⬭	Available
The Giver of Stars	⬭⬭	Taken
The Girl You Left Behind	⬭⬭	Available
The Ship of Brides	⬭⬭	Available
The Husband's Secret	⬭⬭	Available
The Untelling	⬭⬭	Taken
The Glass Castle		Available
Still Me	⬭⬭	Available
One Plus One	⬭⬭	Available
Silver Bay	⬭⬭	Available

Books found: **10**

To find books that were registered without authors, we should use for filter expression: **book.authors:[empty]**

```
book.authors:[empty]
```

Book	Authors	Status
The Glass Castle		Available
The Diary of a Young Girl		Available

To find books that were registered today, we should use for filter expression: **created:[today]**

```
created:[today]
```

Book	Authors	Status
You have not took any books yet		

To find books with more than one author, we should use virtual function **asCount** in filter expression: **book.authors.asCount:>1**

```
book.authors.asCount:>1
```

Book	Authors	Status

Killing Commendatore	⬭⬭⬭⬭	Available

To find books with only single author, we will use symbol **!** to reverse the previous expression in filter: **!book.authors.asCount:>1**

```
!book.authors.asCount:>1
```

Book	Authors	Status
Mad About the Boy	⬭⬭	Taken
Still Me	⬭⬭	Available
An American Marriage	⬭⬭	Available
Us Against You	⬭⬭	Available
Nine Perfect Strangers	⬭⬭	Available
An Absolutely Remarkable Thing	⬭⬭	Available
There There	⬭⬭	Available
Girls Burn Brighter	⬭⬭	Available
All We Ever Wanted	⬭⬭	Available
After Dark	⬭⬭	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	⬭⬭	Available
The Giver of Stars	⬭⬭	Taken
One Plus One	⬭⬭	Available
The Girl You Left Behind	⬭⬭	Available
The Ship of Brides	⬭⬭	Available
Silver Bay	⬭⬭	Available
Three Wishes	⬭⬭	Available
The Husband's Secret	⬭⬭	Available
Truly Madly Guilty	⬭⬭	Available
Bridget Jones's Diary	⬭⬭	Available
Bridget Jones: The Edge of Reason	⬭⬭	Available

Cause Celeb	◯◯	Available
New Beginnings	◯◯	Available
The Untelling	◯◯	Taken
Silver Sparrow	◯◯	Taken
Leaving Atlanta	◯◯	Available
Pride and Prejudice	◯◯	Available
Baby Proof	◯◯	Available
Heart of the Matter	◯◯	Available
First Comes Love	◯◯	Available
Eat, Pray, Love	◯◯	Taken
The Glass Castle		Available
The Diary of a Young Girl		Available
City of Girls	◯◯	Available

Books found: **34**

Show taken books only for logged in users

```
status:taken AND !_user:""
```

Book	Authors	Status
You have not took any books yet		

Books found: **0**

ⓘ More examples coming soon! Need help with filtering or wondering how to get the certain data from bookshelf forms? Let us know and we will be happy to help and add your example here!

Click "Get support" button on the right and send us a message!