

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 <table><thead><tr><th>ID</th><th>Label</th></tr></thead><tbody><tr><td>avail</td><td>Available</td></tr><tr><td>lost</td><td>Lost</td></tr><tr><td>taken</td><td>Taken</td></tr></tbody></table>	ID	Label	avail	Available	lost	Lost	taken	Taken
ID	Label								
avail	Available								
lost	Lost								
taken	Taken								
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	Text 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	☐ ☐	Availa ble
An American Marriage	☐ ☐	Availa ble
Us Against You	☐ ☐	Availa ble
Nine Perfect Strangers	☐ ☐	Availa ble
An Absolutely Remarkable Thing	☐ ☐	Availa ble
Killing Commendatore	☐ ☐ ☐ ☐	Availa ble
There There	☐ ☐	Availa ble

No filter, showing all books in the bookshelf

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

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(. ))))`

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
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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
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Killing Commendatore	○○○○	Available
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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!