Binders

This application helps you to organize and share your data.
No account, no subscription, no ads, no required connection.
Your data privacy is respected with encryption and passwords.
Support is available 7-days-a-week.

Backup your binders regularly.
Android device binders are deleted if the application is uninstalled.
The desktop application is available on the Web site.
Each binder is a database.
You can create as many binders as you need.
Look at examples and how they work.
If you don't find a simple solution, contact us.
A binder can have many form types.

Form types

Forms are defined by their form type which you can modify according to your needs.

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Fields

A form type can have as many fields as necessary.

A field can have a type of value or linked forms.

To add many pictures to a form, add a linked forms field to a new dependent form type with a picture field.

Example: binder "fields".

Possibility

The value is a choice of one or many cases.
Use the Case constant value function to read the case configured number.

• Available functions

Available functions

Constant value

Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Case from a number

Result: the case with the chosen constant value.
Requires a single value.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Number

Number fields with configured minimum and maximum values can display a slider bar.
The field width depends on the configured maximum value.

• Available functions

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Sum

Result: the total of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Minimum

Result: the minimum of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Maximum

Result: the maximum of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Average

Result: the average of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Median

Result: the median of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Operations

Result: the calculated value of the operations.
If a term has many values, they are summed.
Hidden fields can be used for intermediary results.
Use an Operations function for parenthesis.

Rounded value

Result: the rounded number.

Text value

Result: the number from the text.
Requires a single value.

Number of texts

Result: the number of contained texts.

Date value

Result: the numeric value from the date.

Minutes between dates

Result: the number of minutes between the dates.
Returns an integer number.

Days between dates

Result: the number of days between the dates.
Returns an integer number.

Months between dates

Result: the number of months between the dates.
Returns an integer number.

Years between dates

Result: the number of years between the dates.
Returns an integer number.

Days of a duration

Result: the number of days of the duration.
Returns a number with decimals.

Hours of a duration

Result: the number of hours of the duration.
Returns a number with decimals.

Number with fractional parts

Result: the converted temporal number (1.30 gives 1.5).
Requires a single value.

Latitude

Result: the latitude of the GPS position.
Requires a single value.

Longitude

Result: the longitude of the GPS position.
Requires a single value.

Distance between GPS positions

Result: the distance in meters between the GPS positions.

Text length

Result: the length of the text.

Text position

Result: the position of the second text in the first text.
Uppercase letters are ignored.
The value is always positive.

Case constant value

Result: the constant value of the case of the field.
Use the Case constant value function to read the case configured number.

Number of cases

Result: the number of cases of the field.

Form identification code

Result: the form identification code.

Form index

Result: the index of the form in the list, only during item display.

Array search

Result: the array value or the index of the term.

Random number

Result: a random number.
The Calculated and stored option is recommended.

Power

Result: the power of the number.

Square root

Result: the square root of the number.
Requires a single value.

Opposite number

Result: the opposite value of the number.
Requires a single value.

Inverse number

Result: the inverse value of the number.
Requires a single value.

Absolute value

Result: the absolute value of the term.
Requires a single value.

Modulo

Result: the remainder of the Euclidean division.

Increase

Result: the number plus the percentage.

Decrease

Result: the number minus the percentage.

Difference

Result: the percentage between the numbers.

Pi

Result: the Pi constant.

Sine

Result: the sine of the term.
Requires a single value.

Cosine

Result: the cosine of the term.
Requires a single value.

Exponential

Result: the Euler's number e raised to the power of the number.
Requires a single value.

Logarithm

Result: the logarithm of the number.
Requires a single value.

Number of forms

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Number of all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Temperature

Result: the ambient temperature if the device has a sensor.

Humidity

Result: the ambient humidity if the device has a sensor.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Text

Use a text field if no other field suits.

Style markups allow to add colors in text like ...|bold on yellow|important text|....

You can add custom markups with short names in the binder configuration.

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Text part

Result: the part of the text.
Example: the first character if begin=0 and end=1.

Text item

Result: the item from the separated text with index beginning to 0.
Split lines with the Escape character option and enter \n as separator.

Concatenation

Result: the gathered texts.

Random

Result: a randomly generated password.

Empty or spaces

Result: an empty text or with spaces.

Format

Result: the formatted text.

Form variety

Result: the name of the form variety.

Number

Result: the text from the number.

Date

Result: the text from the date.

ISO date

Result: the ISO text from the date.

Week day

Result: the day of the date.

Month

Result: the month of the date.

Spelled number

Result: the spelled number text.
Example: dollar, cent, 100.

Initials from name

Result: the initials from the given name.

Postal code from address

Result: the postal code from the address text depending on the device locale.

Multilingual text

Result: the text from the multilingual text.

Case name

Result: the case name of the field.

Duration between dates

Result: the duration between the dates.

Open Location Code

System variable

Result: the value of the system variable.

Replacements

Result: the text with the replacements.

Replace spaces with the Escape characters option and enter \40 as text to replace.

Style markups cleaning

Result: the text without any style markups.

HTML color

Result: the HTML color code from the color.

Encoding

Result: the text encoded with UTF-8.

Value from Web

Result: the value of the parsed JSON path (examples: a.b, [0].a, a[0].b) from the URL.
The field can be configured to store the calculated value to avoid online updates.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions › 38

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Types

The Type editor options allow to open external applications.

With Document fields, you can choose files to copy and open in the binders folder.

Binders and documents are synchronized together.

Large files can be in a cloud storage and accessed from Web addresses.

File paths are restricted by Android security rules.

Shared references allow to navigate between forms of many binders with the same value.

Device contact fields allow to choose and open contacts but Android security blocks data access.

Style markups

Format: ...|markup|text|....

Example: |on yellow|text|.

Example: |italic white on black|text|.

Example: |underline|text|.

Words:

underline

strikethrough

bold

italic

on

white

black

red

green

blue

orange

yellow

purple

pink

brown

magenta

azure

Multilingual text

The displayed value depends on the user language.

• Available functions

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Date

The precision can be up to milliseconds.

Android notifications are scheduled when the application is in background.

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Android notifications are scheduled when the application is in background.

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Minimum

Result: the minimum of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Maximum

Result: the maximum of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Now

Result: the current date.
The Calculated and stored option is recommended.

Addition

Result: the date plus the duration.

Subtraction

Result: the date minus the duration.

Mixed date

Result: the date calculated from the terms.
The default date is now.

Binder last change

Result: the binder last modification date.

Form last change

Result: the form last modification date.

Form creation

Result: the form creation date.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Duration

The precision can be up to milliseconds.
Highest durations are at most in days.

• Available functions

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Sum

Result: the total of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Minimum

Result: the minimum of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Maximum

Result: the maximum of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Average

Result: the average of terms.
Requires at least one value.
Hidden fields can be used for intermediary results.

Between two dates

Result: the number of seconds between the dates.
The value is always positive.
With daylight saving time, a day may last 23h or 25h.

Operations

Result: the calculated value of the operations.
If a term has many values, they are summed.
Hidden fields can be used for intermediary results.
Use an Operations function for parenthesis.

Number

Form duration

Result: the total number of seconds of the form period.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Picture

Default picture width is 600 pixels.
Ten pictures take about 1Mb.
The both storage and display sizes can be configured.

• Available functions

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Barcode

Result: the generated barcode type from the text.

HTML color

Result: the color from the text with a HTML color code.

Form variety

Result: the icon of the form variety.

Possibility case

Result: the icon of the possibility field case.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

• Available functions   › 38

Alternative value

Result: the first term else the second term and so on.

Example: <Number field maybe empty> else <Constant value 1>.

GPS position

The maximum precision is 6 decimals (=11 cm).
A binder can be exported to a GPX file.

• Available functions

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Field from the current form

Result: the value of the last field of the path from the current form.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from the previous form

Result: the value of the last field of the path from the previous form.
The Calculated and stored option is recommended to avoid needless calculations.
The sort order is important to determine which form is the previous one.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Field from all forms

Result: the value of the last field of the path from forms of a type.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.

Here

Result: the current GPS position.
The Calculated and stored option is recommended.

Open Location Code

Condition

Result: a specific term if a condition is true or false.
Example: if <condition A> then <term if A is true>.
Example: if <condition A> then <term if A is true> else <term if A is false>.
Example: if <condition A> then <term if A is true> else if <condition B> then <term if B is true> else <term if A and B are false>.

Available functions

Constant value

Result: the configured constant value.
Can be used as a default value for a field.

Empty field

Result: true if the field is empty.

Current form possibility equal

Result: true if the field has the chosen case.
The calculation is ignored if a field is empty.
The forms list can be filtered and sorted.
If the field has many choices, use logical functions to check each of them.

Contains text

Result: true if the terms match.

Current form equal

Result: true if a tested form is the same that the current one.
Choose a field to test some linked forms of the current form.

Not

Result: true if the term is false.
Requires a single value.

And

Result: true if all terms are true.

Or

Result: true if at least one term is true.

Has result

Result: true if the term gets some result.

Strong password

Result: true if the value is a strong password (at least one digit, one sign, one uppercase letter, one lowercase letter).

Week day

Result: true if the date is one of the chosen days.

Current form variety equal

Result: true if the form has the chosen variety.

Comparison

Result: true if the comparison is true.
Requires two values.

Comparison

Result: true if the comparison is true.
Requires two values.

Comparison

Result: true if the comparison is true.
Requires two values.

Locked form

Result: true if the form is locked.

Export profile

Result: true if the chosen export profile is used for export.

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Alternative value

Result: the first term else the second term and so on.
Example: <Number field maybe empty> else <Constant value 1>.

Calculation types

• Entered else calculated: result or default value (Common case).
• Calculated and stored: during the form creation.
• Calculated on demand: recalculation button.
• Calculated on demand if empty: optional recalculation button.
• Calculated else entered: remplacement value (Rare case).

Converted field

Some fields can be converted to another field type.
Some conversions are not reversible.

From a linked form

A field can be moved from a linked form type.

Sort order

To compare two forms and determine which one is the first.
Custom order allows user to manually change forms order.
Huge forms lists are displayed faster with the No sort option in the form type settings.
List statistics are not available if the form type has the No order option.
You can configure some named sort orders to choose on forms lists menu.

Editor

A linked forms list can be displayed in its own page.
Huge forms lists are size limited to avoid long displaying and very long scrolling.
Forms or some fields only can be directly entered in a list with the Embedded option.

Varieties

You can distinguish some forms with the same type.
Example: a person form type with man and woman form varieties.
Example: binder "varieties".

Form parts

Fields can be grouped with a form part.
Example: binder "form parts".

Validation rules

Validation rules allow to calculate if a form is valid or not.

Organization

Each form can be filled and linked to others.
Example: an address is linked to a city which is linked to a country.

Some forms can depend on others, like an invoice line depends on an invoice.
If an invoice is deleted, its lines are deleted too.
A possibility field suits for a changing state (unpaid/paid).
Form varieties suit for a changeless state (type of invoice).

Relational databases

Unlike a relational database, you don't have here to manage keys and joins.
You can organize your data naturally with multiple links between forms.
It's a design tool which works with real data.
You can use powerful features as cascade deletion, table inheritance, validation rules, constraints and calculated fields.

• Linked forms   › 45

Linked forms

Two linked form types have both linked form fields.

These two field are configured to link only one or many forms.

The forms filter allows to set the available forms.

Display

A favorite binder is displayed first.
Binders can be grouped in categories.
Forms lists can be grouped in categories.
An empty field can be configured to be hidden.
Fields can be grouped with a form part.
A field can be always hidden.
A field can be visible only for some form varieties.

Validation

Validation helps you to manage missing or incoherent data.
Example: if a number field value is greater than the defined maximum.
Validation rules allow to calculate if a form is valid or not.

Deletion

User deleted forms can be restored from the Search Recycle bin page.
The recycle bin can be emptied using Clear history in the binder menu.

• Dependency

Dependency

Some forms can depend on others, like an invoice line depends on an invoice.

If an invoice is deleted, its lines are deleted too.

The dependent forms are hidden in the binder main page but you can show them with the View all option.

Binder size

Clear history allows to reduce the binder size (the database is rebuilt).

Performance

Huge forms lists are displayed faster with the No sort option in the form type settings.
Use the Calculated and stored option to skip useless calculations.

Import

Your data can be imported from CSV or XML files.
Configure the fields type to create and fill.
You can configure how a linked form is found from a column value.
Key fields are used to find existing forms to update.
Advice: to import forms of an existing type, export with the reimport option first and import with the same columns.
Example: to import customers and invoices files, import the customers first with the customer code as key and then the invoices with the customer code as linked form.

Export

Your data can be exported in many file types: PDF, WordML, CSV, XML ,JSON, ...
Each file type has own limitations, like asian languages support for PDF.
WordML DOC files require Microsoft Word.

PDF export

If a column is not wide enough, you can hide, reduce other columns or use the Second line option.
Example: a number field with a configured maximum has a reduced width.
The background picture may be a .jpg or .png file.
Example: binder "PDF".

Calendar export

All forms with a date can be exported to a dedicated calendar.
If the calendar application has issues (Xperia), use another one (Google).

• Period

Period

Used for searching, filtering and exporting to calendar.

Device contacts

Forms can be exported to dedicated contacts of the device.

Text fields with the Full name, Address, Email, Phone, SMS options are used.

The device existing contacts are never modified.

Import

The application only reads the user chosen device contacts.
Both Text fields with the Device contact and the Full name option are required to import.

External access

Android Intent

You can add or read form data using an Android Intent.
Net.generism.linoteforandroid.CommandActivity.
The field values follow the CSV columns format.
For Tasker, configure Extra with line:key=value key="value 2" ....

To read the nearest form from a given location.
"command"="exportForm", "binder"="world atlas", "formType"="country", "sortField"="capital coordinates",
"sortDirection"="near", "sortLatitude"="48.878431", "sortLongitude"="2.364428".

To add a form.
"command"="importForm", "binder"="world atlas", "formType"="continent", "name"="atlantis".

Command line

You can export a binder to XML file using a command line.
--command="exportBinderXML" --binder="world atlas" --folder="C:\".

Synchronization

It is important to keep backup copies.
Binders are synchronized between two folders.
Only the newest version of each binder is kept.
Some Cloud providers require to create binders on Android first to be visible.

A Generism sub folder is automatically created in cloud folders.
Binder files have .gnbp extension.
Renaming a binder file creates a duplicate during synchronization.
You can check cloud files with the dedicated application.

Binder deletion

Synchronization never deletes binders, to protect user data.
You have to delete the binder in both local and cloud folders.

Between a device and a computer

1 - If there is no cloud folder in the computer file explorer, install the cloud application.

Dropbox. https://www.dropbox.com/install

Google Drive. https://www.google.com/drive/download/

2 - Add a binder on the device.

3 - Synchronize on the device.

4 - Wait for the cloud update.

5 - Go with the the file explorer in "Generism" cloud subfolder.

6 - Launch "Binders.bat".

7 - Modify the binders on the computer.

8 - Wait for the cloud update.

9 - Synchronize on the device.

Between two devices

1 - Add a binder on the device A.

2 - Synchronize on the device A.

3 - Wait for the cloud update.

4 - Synchronize on the device B.

5 - Modify the binders on the device B.

6 - Synchronize on the device B.

7 - Wait for the cloud update.

8 - Synchronize on the device A.