

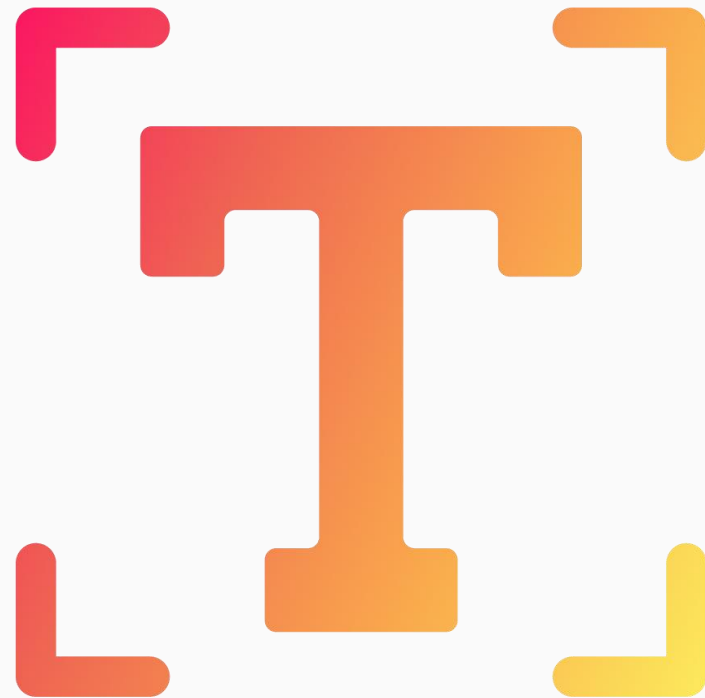


2: Intro To Filters





Getting Data





Getting Data

Two Types of Storage

Properties

CurrentPerson

FirstName: Theodore

NickName: Ted

LastName: Decker

...

```
1 {{ CurrentPerson.NickName }}
```



Getting Data

Property Filter

```
1 {{ CurrentPerson | Property:'NickName' }}
```



Getting Data

Property Filter

```
1 {{ CurrentPerson | Spouse | Property:'NickName' }}
```

**This filter is usually only
used after another filter.**



Getting Data

Two Types of Storage

Attributes

AttributeValue

| Attribute | Entity | Value |
|-------------|------------|------------|
| BaptismDate | Ted Decker | 2006-01-12 |
| BaptismDate | Allie Song | 2019-03-02 |
| TShirtSize | Ted Decker | Large |
| ... | ... | ... |

```
1 {{ CurrentPerson | Attribute:'BaptismDate' }}
```



Getting Data

Attribute Filter

```
1 {{ CurrentPerson | Attribute:'BaptismDate' }}
```

The goal of the Attribute filter is to provide human-understandable text.



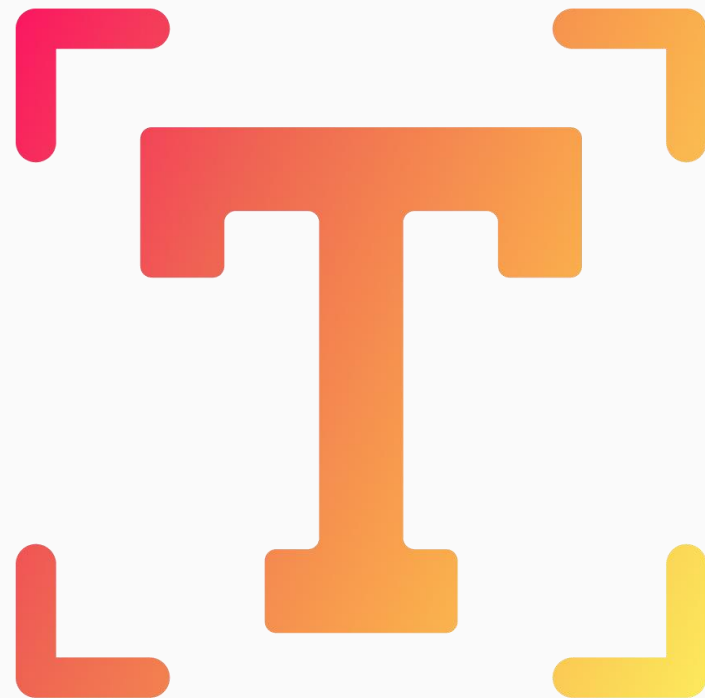
Attribute

```
1 {{ CurrentPerson | Attribute:'School' }}
```

Washington Elementary School



Text Filters





Downcase

```
1 <h2>{{ CurrentPerson.FullName | Downcase }}</h2>
```



ted decker



Uppcase

```
1 <h2>{{ CurrentPerson.FullName | Uppcase }}</h2>
```



TED DECKER



SentenceCase

```
1 / <h2>{{ 'good to great' | SentenceCase }}</h2>
```



Good to great



Capitalize

```
1 / <h2>{{ 'good to great' | Capitalize }}</h2>
```



Good To Great



TitleCase

```
1 <h2>{{ 'good to great' | TitleCase }}</h2>
```



Good to Great



NewlineToBr

```
1  {{ Workflow.Note | NewlineToBr }}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Ut blandit felis vitae nunc feugiat euismod.



Pluralize

```
1 <h2>Ted's {{ 'Child' | Pluralize }}</h2>
```



Ted's Children



Possessive

```
1 <h2>{{ CurrentPerson.NickName | Possessive }} Group</h2>
```



Ted's Group



Singularize

```
1 {{ 'trees' | Singularize }}  
2 {{ 'women' | Singularize }}  
3 {{ 'geese' | Singularize }}
```

tree

woman

goose



Size

```
1 <h2>{{ 'We Will We Will Rock You' | Size }}</h2>
```

24



StripHtml

```
1 {{ Item.Content | StripHtml }}
```

```
1 <h1>Big Header</h1>
2 <ol>
3   <li>List Item</li>
4   <li>Second List Item</li>
5   <li>Third List Item</li>
6 </ol>
```



Big Header. List Item. Second List Item. Third List Item.



StripNewlines

```
1 {{ Item.Content | StripNewlines }}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean sodales, metus id viverra semper, nibh ipsum porttitor nibh, in luctus nulla eros non sapien.

Vivamus efficitur cursus condimentum. Ut blandit felis vitae nun

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean sodales, metus id viverra semper, nibh ipsum porttitor nibh, in luctus nulla eros non sapien. Vivamus efficitur cursus condimentum. Ut blandit felis vitae nun



Trim

```
1 <h2>-{{ ' Ted Decker ' }}-</h2>  
2 <h2>-{{ ' Ted Decker ' | Trim }}-</h2>
```

Additional Options

1. String to Remove

- Ted Decker -
-Ted Decker-



**Filters can
have options**





Append

```
1 <h2>{{ CurrentPerson.LastName | Append:'Family' }}</h2>
```



Decker Family



Prepend

```
1 <h2>{{ CurrentPerson.NickName | Prepend: 'Hello ' }}!</h2>
```



1 2 3

Hello Ted!



TrimEnd

```
1 <h2>-{{ ' Ted Decker ' }}-</h2>  
2 <h2>-{{ ' Ted Decker ' | TrimEnd }}-</h2>
```

Additional Options

1. String to Remove

- Ted Decker-



TrimStart

```
1 <h2>--{{ ' Ted Decker ' }}-</h2>  
2 <h2>--{{ ' Ted Decker ' | TrimStart }}-</h2>
```

Additional Options

1. String to Remove

-Ted Decker -



PluralizeForQuantity

```
1 {% assign leaderCount = 3 %}  
2  
3 {{ 'Leader' | PluralizeForQuantity:leaderCount }}: {{ leaderCount }}
```

Leaders: 3



Right

```
1 The last four letters are  
2 '{{ CurrentPerson.LastName | Right:4 }}'
```

The last four letters are 'cker'



Split

```
1 {% assign emailParts = CurrentPerson.Email | Split:'@' %}  
2 Your email domain is {{ emailParts | Last }}
```

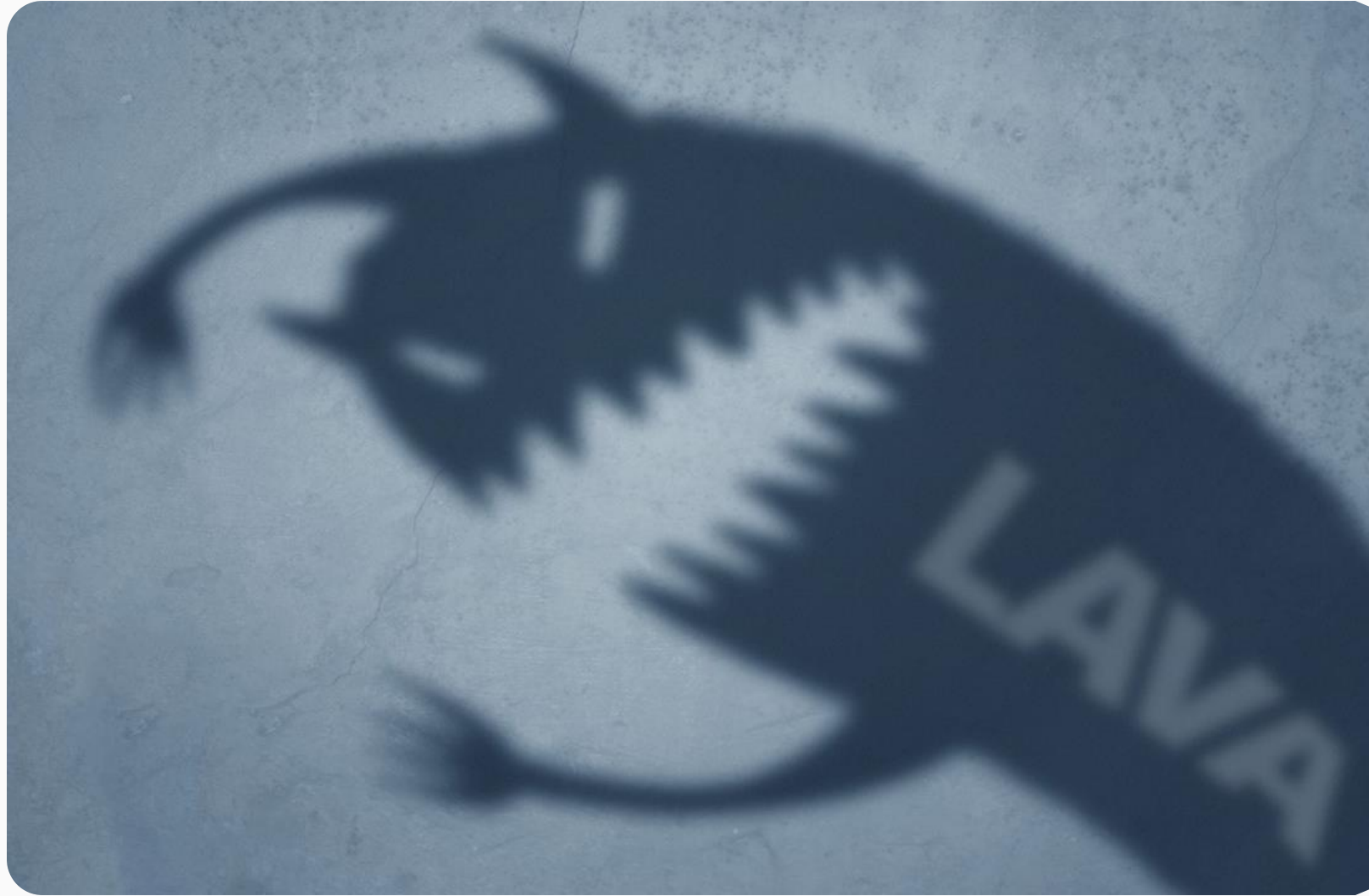
Additional Options

1. Pattern
2. Remove Empty
3. Maximum Items Returned

Your email domain is: rocksolidchurchdemo.com.



**Filters can have
multiple options**





ReadTime

```
1  {{ Item.Content | ReadTime }}  
2  {{ Item.Content | ReadTime:275 }} ← words per minute  
3  {{ Item.Content | ReadTime:275,12 }} ← seconds per image
```

Additional Options

1. Words per minute
2. Seconds Per Image

30 secs
1 mins
1 hr 23 mins



Remove

```
1  {{ 'We Will We Will Rock You' | Remove:'We Will' }}
```

A terminal window with a light blue title bar and three colored window control buttons (red, yellow, green) on the left. The main area is white and contains the text 'Rock You' in a large, bold, black font.

Rock You



RemoveFirst

```
1 {{ 'We Will We Will Rock You' | RemoveFirst:'We Will' }}
```



We Will Rock You



Replace

```
1  {{ 'We Will We Will Rock You' | Replace:'We Will','Rock Will' }}
```

Rock Will Rock Will Rock You



ReplaceFirst

```
1  {{ 'We Will We Will Rock You' | ReplaceFirst:'We Will','Rock Will' }}
```

Rock Will We Will Rock You



ReplaceLast

```
1  {{ 'We Will We Will Rock You' | ReplaceLast:'We Will','Rock Will' }}
```

We Will Rock Will Rock You



Slice

```
1  {% assign code = 'GX925' %}  
2  First two characters  
3  '{{ code | slice:0,2 }}'  
4  and the last three characters  
5  '{{ code | slice:2,3 }}'.
```

Additional Options

1. Start character
2. Length

First two characters 'GX' and
the last three characters '925'



Truncate

```
1 <h2>{{ CurrentPerson.FullName | Truncate:9, '...' }}</h2>
```

Additional Options

1. Number of Letters
2. Appended String



Ted De...



TruncateWords

```
1 {{ Item.Content | TruncateWords:7, '...' }}
```

Additional Options

1. Number of Words
2. Appended String

Lorem ipsum dolor sit amet, consectetur adipiscing...



WithFallback

```
1 {{ CurrentPerson.NickName | WithFallback:', are','Are' }}  
2 you interested in baptism?
```

Additional Options

1. Value to prepend if not null
2. Value to use if null
3. Option to append instead

Ted, are you interested in baptism?

-or if CurrentPerson was null-

Are you interested in baptism?



Default

```
1 Anniversary: {{ CurrentPerson.AnniversaryDate | Default:'(none)' }}
```

Anniversary: (none)



Remember this?

Attribute Filter

```
1 {{ CurrentPerson | Attribute:'School' }}
```

The goal of the Attribute filter is to provide human-understandable text.



Attribute

```
1 {{ CurrentPerson | Attribute:'School' }}
```

Additional Options

1. AttributeKey
2. Return Value

Washington Elementary School



Attribute

```
1  {{ CurrentPerson | Attribute:'School','Id' }}  
2  {{ CurrentPerson | Attribute:'School','Description' }}  
3  {{ CurrentPerson | Attribute:'School','IsActive' }}
```

Additional Options

1. AttributeKey
2. Return Value

173

A sample elementary school

true



Attribute

```
1  {{ CurrentPerson | Attribute:'School','Object' }}
```

Additional Options

1. AttributeKey
2. Return Value



Attribute

```
1 {{ CurrentPerson | Attribute:'School','Object' | Attribute:'Grades' }}
```

Defined Value Id: 173 ✕

Edit defined value for School

Value *

Description

Active
☒

Grades ⓘ

| | | | |
|---------------------------------------|---------------------------------------|-----------------------------|-----------------------------|
| <input type="checkbox"/> Pre-K | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 7 | <input type="checkbox"/> 11 |
| <input checked="" type="checkbox"/> K | <input checked="" type="checkbox"/> 4 | <input type="checkbox"/> 8 | <input type="checkbox"/> 12 |
| <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> 5 | <input type="checkbox"/> 9 | |
| <input checked="" type="checkbox"/> 2 | <input checked="" type="checkbox"/> 6 | <input type="checkbox"/> 10 | |

Save Cancel

Additional Options

1. AttributeKey
2. Return Value

K, 1, 2, 3, 4, 5, 6



Other Text Filters

- FromMarkdown
- Linkify
- ObfuscateEmail
- RegExMatch
- RegExMatchValue
- RegExReplace
- SanitizeSql
- ToCssClass
- ToPascal

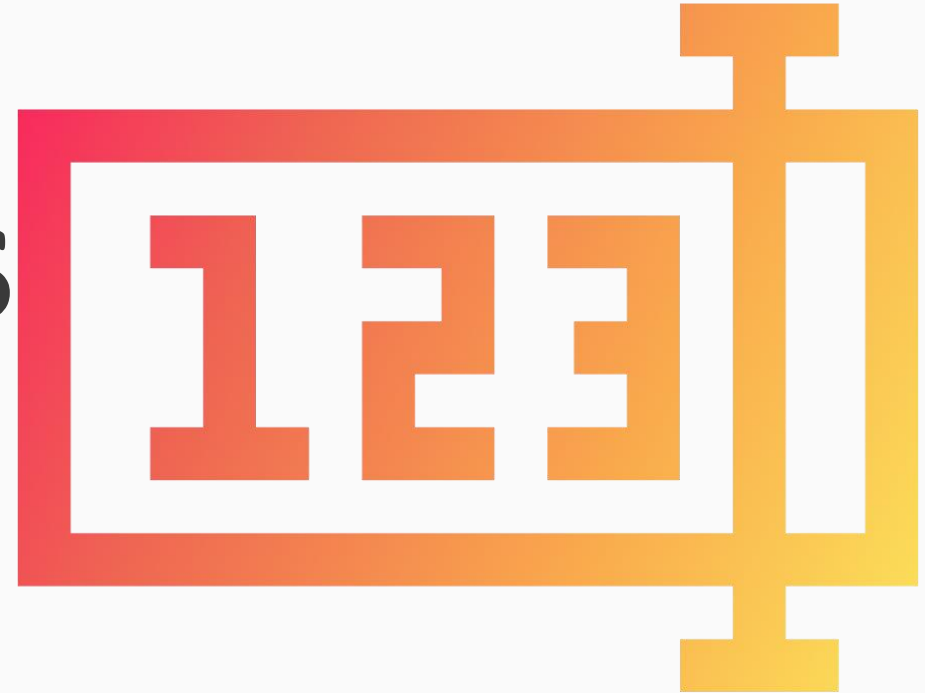


Other Text Filters

- `UnescapeDataString`
- `Escape`
- `EscapeDataString`
- `HtmlDecode`
- `Humanize`



Numeric Filters





Plus

```
1 / <h2>{{ 2 | Plus:2 }}</h2>
```

4



Minus

```
1 / <h2>{{ 2 | Minus:2 }}</h2>
```

0



Times

```
1 / <h2>{{ 2 | Times:10 }}</h2>
```

20



DividedBy

```
1 <h2>{{ 20 | DividedBy:2 }}</h2>  
2 <h2>{{ 12.434 | DividedBy:6,2 }}</h2>
```

Additional Options

1. Number
2. Rounded to Digits

10

2.07



Modulo

```
1/ <h2>The remainder of 7/3 is {{ 7 | Modulo:3 }}.</h2>
```

The remainder of 7/3 is 1.



AtLeast

```
1 {{ 4 | AtLeast:5 }}  
2 {{ 4 | AtLeast:3 }}
```

5

4



AtMost

```
1  {{ 4 | AtMost:5 }}  
2  {{ 4 | AtMost:3 }}
```

4

3



Floor

```
1 {{ 1.2 | Floor }}  
2 {{ 2.0 | Floor }}  
3 {{ 183.357 | Floor }}
```

1

2

183



Ceiling

```
1 {{ 1.2 | Ceiling }}  
2 {{ 2.0 | Ceiling }}  
3 {{ 183.357 | Ceiling }}
```

2

2

184



Round

```
1 {{ 1.2 | Round }}  
2 {{ 2.7 | Round }}  
3 {{ 183.357 | Round:2 }}
```

1

3

183.36



Format

```
1 {{ 1200.23 | Format: '#,##0.00' }}
```

1,200.23



FormatAsCurrency

```
1 {{ 1200.23 | FormatAsCurrency }}
```

\$1,200.23



NumberToOrdinal

```
1 {{ 1 | NumberToOrdinal }}  
2 {{ 2 | NumberToOrdinal }}  
3 {{ 3 | NumberToOrdinal }}
```

1st

2nd

3rd



NumberToOrdinalWords

```
1  {{ 1 | NumberToOrdinalWords }}  
2  {{ 2 | NumberToOrdinalWords }}  
3  {{ 3 | NumberToOrdinalWords }}
```

first
second
third



NumberToRomanNumerals

```
1 {{ 1 | NumberToRomanNumerals }}  
2 {{ 2 | NumberToRomanNumerals }}  
3 {{ 3 | NumberToRomanNumerals }}
```

I

II

III



NumberToWords

```
1 {{ 1 | NumberToWords }}  
2 {{ 2 | NumberToWords }}  
3 {{ 3 | NumberToWords }}
```

one
two
three



RandomNumber

```
1 The raffle winner is # {{ 100 | RandomNumber }}
```

The raffle winner is # 23



ToQuantity

```
1 { % assign phonecount = CurrentPerson.PhoneNumbers | Size % }  
2 Ted has {{ 'phone number' | ToQuantity:phonecount }}.
```

Ted has 3 phone numbers.



Date Filters





Date

```
1 {% assign firstVisit = CurrentPerson | Attribute:'FirstVisit' %}  
2 {{ firstVisit | Date:'M/d/yyyy' }}  
3 {{ firstVisit | Date:'dddd, MMMM d, yyyy' }}
```

Additional Options

1. Format

2/13/2011

Sunday, February 13, 2011



DateAdd

```
1 {% assign firstVisit = CurrentPerson | Attribute:'FirstVisit' %}  
2 First Visit: {{ firstVisit }}  
3 2 Week Follow-up: {{ firstVisit | DateAdd:14 }}
```

Additional Options

1. Number
2. Interval (y – Years, M – Months, w – weeks, d – days, h – hours, m – minutes, s – seconds)

First Visit: 2/14/2011
2 Week Follow-up: 2/28/2011



DateDiff

```
1 {% assign firstVisit = ... %}  
2 {% assign secondVisit = ... %}  
3 It was {{ firstVisit | DateDiff:secondVisit,'d' }}  
4 days between {{ CurrentPerson.Nickname | Possessive }} first  
5 and second visit.
```

Additional Options

1. Number
2. Interval (y – Years, M – Months, w – weeks, d – days, h – hours, m – minutes, s – seconds)

**It was 32 days between Ted's
first and second visit.**



DatesFromICal

```
1  {% assign upcomingDates = iCalendarContent | DatesFromICal:2 %}  
2  <ul>  
3      {% for date in upcomingDates %}  
4          <li>{{ date }}</li>  
5      {% endfor %}  
6  </ul>
```

Additional Options

1. Number of Occurrences to Display (# or All)
2. End Date Time

- **7/15/2015 7:00 PM**
- **7/16/2015 7:00 PM**



DaysFromNow

```
1 {% assign firstVisit = CurrentPerson | Attribute:'FirstVisit' %}  
2 Visited {{ firstVisit | DaysFromNow }}.
```

Visited 14 days ago.



DaysInMonth

```
1  {{ 'now' | DaysInMonth }}  
2  {{ '2/1/2017' | DaysInMonth }}  
3  {{ '' | DaysInMonth:'02','2016' }}
```

Additional Options (if no date is provided)

1. Month
2. Year

31

28

29



DaysSince

```
1 {{ CurrentPerson.NickName }} was married  
2 {{ CurrentPerson.AnniversaryDate | DaysSince }}  
3 days ago.
```

**Ted was married 8215 days
ago.**



Remember you can chain filters

```
1 {{ CurrentPerson.NickName }} was married  
2 {{ CurrentPerson.AnniversaryDate | DaysSince | Format:'#,##0' }}  
3 days ago.
```

**Ted was married 8,215 days
ago.**



DaysUntil

```
1 {{ CurrentPerson.NickName }} can take a sabbatical in  
2 {{ CurrentPerson | Attribute:'StaffSabbatical' | DaysUntil }}  
3 days.
```

**Ted can take a sabbatical in
546 days.**



HumanizeDateTime

```
1 {{ CurrentPerson.NickName }} was married  
2 {{ CurrentPerson.AnniversaryDate | HumanizeDateTime }}.
```

Ted was married 18 years ago.



HumanizeTimeSpan

```
1 { % assign firstVisit = ... % }  
2 { % assign secondVisit = ... % }  
3 It was {{ firstVisit | HumanizeTimeSpan:secondVisit }}  
4 between {{ CurrentPerson.Nickname | Possessive }} first  
5 and second visit.
```

Additional Options

1. Date
2. Precision (3 – weeks/days, 4 – weeks/days/hours, 5 – Weeks/days/hours/minutes)

It was 4 weeks between Ted's first and second visit.



IsDateBetween

```
1 {% assign startDate = '2020-01-01' %}  
2 {% assign endDate = '2029-12-31' %}  
3 {% assign in20s = 'Now' | Date | IsDateBetween:startDate,endDate %}  
4 {% if in20s == True %}We're in the 2020s!{% endif %}
```

We're in the 2020s!



NextDayOfTheWeek

```
1 {{ CurrentPerson | Attribute:'FirstVisit' | NextDayOfTheWeek:'Friday' }}
```

Additional Options

1. Day of Week
2. Include Current Day
3. Number of Weeks

2/11/2011



SundayDate

```
1 {{ CurrentPerson | Attribute:'FirstVisit' | SundayDate }}
```

2/11/2011



TimeOfDay

```
1  {% assign firstVisit = ... %}  
2  {% assign secondVisit = ... %}  
3  {{ CurrentPerson.NickName | Possessive }} first visit was in  
4  the {{ firstVisit | TimeOfDay }} and second visit was in  
5  the {{ secondVisit | TimeOfDay }}.
```

Time Periods

- Morning – (5am – 11:59:59am)
- Afternoon – (12pm – 4:59:59pm)
- Evening – (5pm – 8:59:59pm)
- Night – (9pm – 4:59:59am)

**Ted's first visit was in the
Afternoon and second visit
was in the Morning.**



ToMidnight

```
1 {{ CurrentPerson | Attribute:'FirstVisit' }}  
2 {{ CurrentPerson | Attribute:'FirstVisit' | ToMidnight }}
```

2/11/2011 8:00:00 AM

2/11/2011 12:00:00 AM



Other Date Filters

- `AsDateTimeUtc`
- `DateRangeFromSlidingFormat`