

# concat

## Description

Joins multiple strings together and return the result as a single string.

## Syntax

Like many functions in DataPrime, `concat` supports [two notations](#), **function** and **method** notation. These interchangeable forms allow flexibility in how you structure expressions.

### Function notation

```
concat(value: string, ...values: string): string
```

### Method notation

```
(value: string).concat(...values: string): string
```

## Arguments

| Name      | Type   | Required    | Description                                 |
|-----------|--------|-------------|---------------------------------------------|
| value     | string | <b>true</b> | The first string to include in the result   |
| ...values | string | <b>true</b> | Additional strings to concatenate, in order |

## Example 1

**Combine first and last names into a full name.**

Use `concat` to build a `full_name` field:

```
{
  "username": "prime4u",
  "first_name": "Rick",
  "last_name": "Ast",
}
```

## Example query

Function notation

```
create full_name from concat(first_name, ' ', last_name)
```

Method notation

```
create full_name from first_name.concat(' ', last_name)
```

## Example output

```
{  
  "username": "prime4u",  
  "first_name": "Rick",  
  "last_name": "Ast",  
  "full_name": "Rick Ast"  
}
```

## Example 2

### Use case 2: Build an Amazon ARN

```
{  
  "aws": {  
    "region": "eu-west-1",  
    "instance_id": "i-02084e96d21517df8",  
    "account_number": 74157727657  
  }  
}
```

Amazon ARNs follow the format:

```
arn:aws:ec2:<region>:<account-number>:instance/<instance-id>
```

Use `concat` to construct the ARN:

## Example query

```
create aws.instance_arn from concat('arn:aws:ec2:', aws.region, ':',  
aws.account_number, ':instance/', aws.instance_id)
```

## Example output

```
{
  "aws": {
    "region": "eu-west-1",
    "instance_id": "i-02084e96d21517df8",
    "account_number": 74157727657,
    "instance_arn": "arn:aws:ec2:eu-west-1:74157727657:instance/i-02084e96d21517df8"
  }
}
```

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