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# Responses API walkthroughs

With the Responses API, you can retrieve your typeform's results on-demand, manually or programmatically, without setting up a webhook or third-party integration. Responses also offers powerful query parameters you can use to filter the data you retrieve. Let's walk through the basics.

**NOTE:** These walkthroughs assume that you already have your Typeform access token and know how to pass it in the Authorization header of your request. If you need an access token or don't know how to pass it in the Authorization header, head to the [Get started](#) section first.

## Manually retrieve your typeform's data

If you want to retrieve responses for your typeform, it's a straightforward process: send a [GET](#) [https://api.typeform.com/forms/{form\\_id}/responses](https://api.typeform.com/forms/{form_id}/responses).

By default you will receive 25 responses. In order to change the number of responses, use the [page\\_size](#) parameter. Max. value is 1000.

If you want to iterate through responses, use the [since](#) / [until](#) or [before](#) / [after](#) query parameters. For more information see [retrieve responses documentation](#)

## Use query parameters to retrieve specific data

Suppose you expect thousands of responses to your typeform, but always fewer than 1000 per day. To keep your Responses API requests manageable, you decide to retrieve your typeform's data once each day. In other words, you'll retrieve yesterday's data today, today's data tomorrow, and so on. Because you don't want to retrieve **every** response to your typeform, you'll use the [since](#) and [until](#) query parameters to narrow the scope of your request and limit the API response by date.

**NOTE:** Other query parameters for the Responses API include [page\\_size](#), which lets you specify the number of results to retrieve (up to 1000), and [query](#), which lets you limit responses to those that contain a certain term. For a complete list of query parameters for the Responses API, see the [reference documentation](#).

### Use the [since](#) and [until](#) query parameters to retrieve a date range

Let's assume today is July 10, 2017, and you're going to retrieve the previous day's data. Here's the walkthrough:

1. You'll still use the [GET](#) [https://api.typeform.com/forms/{form\\_id}/responses](https://api.typeform.com/forms/{form_id}/responses) endpoint, but don't send your request yet!
2. Add the [since](#) query parameter to your request. The [since](#) parameter is a string that uses ISO 8601 format, Coordinated Universal Time (UTC), with "T" as a delimiter between the date and time. July 10, 2017 at 12:00 a.m. UTC is expressed as [2017-07-10T00:00:00](#). If you want to retrieve responses for *yesterday*, 2017-07-09, the value for your [since](#) query parameter would be [2017-07-09T00:00:00](#). This means your response will include typeform responses received since 12:00 a.m. UTC on July 9, 2017.
3. Add the [until](#) query parameter to your request. The [until](#) parameter is also string in the same format as the [since](#) parameter. The value for your [until](#) query parameter would be [2017-07-10T00:00:00](#). This means your response will include typeform responses received up until 12:00 a.m. UTC on July 10, 2017.

Here's what the cURL request looks like:

```
curl --request GET \
--url 'https://api.typeform.com/forms/{form_id}/responses?since=2017-07-09T00%3A00%3A00' \
--header 'authorization: bearer {your_access_token}'
```

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Now, you can send your request. The response will include only the responses that were submitted yesterday, July 9, 2017.

#### Use the `before` query parameter to paginate

Suppose one of your typeforms received hundreds of responses, and you want to page through them 25 at a time to keep things manageable. To do this, limit your Responses request using the `token` property and the `before` parameter. Here's the walkthrough:

1. Send a request to the `GET https://api.typeform.com/forms/{form_id}/responses` endpoint, but add the `page_size` query parameter and specify 25 responses:  
`GET https://api.typeform.com/forms/{form_id}/responses?page_size=25`. This retrieves the first 25 responses for your form.
2. Find the `token` property for the 25th response listed. Each response to your typeform starts with a general data object that includes the `token`.
3. Send another `GET` request with `page_size=25` and add the `before` query parameter. The value for the `before` parameter should be the `token` value for the 25th response:  
`GET https://api.typeform.com/forms/{form_id}/responses?page_size=25&before={token_value_25th_response}`  
This retrieves the next 25 responses for your form.
4. Continue to send requests using `page_size=25` and `before={token_value_25th_response}` until you have retrieved all responses for your form. You will update the `before` value each time to match the `token` value for the 25th response in the previous set of responses.

NOTE: The `after` query parameter works just like the `before` parameter, except that it retrieves responses after the `token` value you specify. For example, the request

```
GET https://api.typeform.com/forms/{form_id}/responses?page_size=25&after={token_value_1000th_response}
```

will retrieve responses 1001 to 1026 for your typeform.

## 💡 Create a web application to retrieve your typeform's data

You can develop your own web app that authenticates your Typeform logon and retrieves and displays the responses for your typeform at the click of a button. When you start your next Typeform campaign, you can reuse your app by updating your code with the new typeform's `form_id`.

We developed [an example application](#) to help you envision how your own app might work.

## 💡 Ready to go?

If you need your access token, check out our [Get started](#) section. If you have your token and you want to retrieve responses for an existing typeform, head to the [Responses API reference](#) documentation.

If you want to create a form, head to the [Create API](#).

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