

RESTful Doodle

At www.doodle.com, Doodle AG offers a hugely popular service called Doodle®. Witness of Doodle's popularity are not only the already high, but still fast-growing number of users, but also the large amount of positive user feedback and the very positive reviews in the media. In a nutshell, Doodle allows a group of users to easily and quickly find the best among several options—in particular dates.

In addition to the user interfaces that Doodle AG provides in order to access the Doodle service, Doodle AG also provides a RESTful application programming interface (API). The RESTful Doodle API is the topic of this document.

In what follows, the base URL for accessing the RESTful Doodle API is <http://doodle.com/api1>. The base URL for the XML schemas is <http://doodle.com/xsd1>. Accessing the RESTful Doodle API on the production server requires authorization (cf. [AAforRESTfulDoodle.pdf](#)). For testing purposes, the RESTful Doodle API can be accessed without authorization on the test server at <http://doodle-test.com/api1WithoutAccessControl>.¹

Prerequisites

We assume that the reader is familiar with RESTful Web services in general. An excellent text book on this topic is „RESTful Web Services“ by Leonard Richardson and Sam Ruby (<http://www.oreilly.com/catalog/9780596529260/>).

Acknowledgments

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History

1.2.0	<ul style="list-style-type: none">• allow for specifying final options
1.1.0	<ul style="list-style-type: none">• allow for closing/re-opening polls• allow for hiding/un-hiding polls• allow for adding/changing/removing column and row constraints• X-DoodleKey with uppercase X
1.0.0	

¹ In addition to your browser and cURL (<http://curl.haxx.se/>), you can also use our test client (<http://doodle.com/xsd1/TestRESTinPeace.jar>) to experiment with the API; it requires Java SE 6 can be started like any other executable JAR: `java -jar TestRESTinPeace.jar` Doodle's terms of service (<http://doodle.com/about/tos.html>) also apply to the test client.

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OPTIONS

The server responds to a HTTP OPTIONS request on a valid resource with an „Allow“ header listing the HTTP methods supported on that resource:

Resource	Allow
/polls/ <u>ID</u> /comments	POST, OPTIONS
/polls/ <u>ID</u> /comments/ <u>ID1</u>	DELETE, OPTIONS
/polls/ <u>ID</u> /participants	POST, OPTIONS
/polls/ <u>ID</u> /participants/ <u>ID2</u>	PUT, DELETE, OPTIONS
/polls	POST, OPTIONS
/polls/ <u>ID</u>	GET, PUT, DELETE, OPTIONS
/users	GET, OPTIONS

ID denotes the poll's 16-character identifier. ID1 denotes the comment's identifier. ID2 denotes the participant's identifier.

The server responds to a HTTP OPTIONS request on an invalid resource (e.g., one with a syntactically incorrect poll identifier) with „Allow: OPTIONS“ only. Note that the HTTP OPTIONS method neither checks whether a poll or participant actually exists nor whether the client knows the poll key.

Poll

GET

Request

Resource

/polls/ID

ID denotes the poll's 16-character identifier.

Header (optional)

X-DoodleKey:KEY

KEY denotes the poll's 8-character key. Including the right key makes a difference when the poll is a hidden poll.

Response

Body

The poll encoded in XML according to schema poll.xsd.

Example:

```
<poll xmlns="http://doodle.com/xsd1">
<latestChange>2008-07-23T16:40:50+02:00</latestChange>
<id>rgnrsqvsirr5s22s</id>
<type>DATE</type>
<extensions rowConstraint="1" columnConstraint="5"/>
<hidden>>false</hidden>
<levels>2</levels>
```

```

<state>OPEN</state>
<title>Date Options and Extensions</title>
<description></description>
<initiator>
<name>Paul</name>
</initiator>
<options>
<option date="2008-08-26"/>
<option date="2008-08-27">noon</option>
<option startDateTime="2008-08-27T15:00:00" endDateTime="2008-08-27T17:00:00"/>
<option date="2008-08-28">Austin</option>
<option date="2008-08-28">Zurich</option>
</options>
<participants>
<participant>
<id>1</id>
<name>Myke</name>
<preferences>
<option></option>
<option>0</option>
<option>0</option>
<option>0</option>
<option>0</option>
<option>1</option>
</preferences>
</participant>
</participants>
<comments>
<comment>
<who>Reto</who>
<what>yada, yada, yada</what>
<when>2008-07-23T16:47:41+02:00</when>
</comment >
</comments>
</poll>

```

POST (i.e., „save as“)

Request

Resource

/polls

Body

The poll encoded in XML according to schema poll.xsd.

Example:

```
<poll xmlns="http://doodle.com/xsd1">
```

```
<type>TEXT</type>
<hidden>>false</hidden>
<levels>2</levels>
<title>PPP</title>
<description>yum!</description>
<initiator>
<name>Paul</name>
</initiator>
<options>
<option>Pasta</option>
<option>Pizza</option>
<option>Polenta</option>
</options>
</poll>
```

An <initiator>'s <name> is mandatory. Optionally, you can also include her/his <userId> (cf. AAforRESTfulDoodle.pdf) and <eMailAddress>.

Response

Header

Content-Location:**ID**

ID denotes the poll's 16-character identifier.

X-DoodleKey:**KEY**

KEY denotes the poll's 8-character key.

Status Code

201 (Created)

PUT (i.e., „save“)

Request

Resource

/polls/**ID**

ID denotes the poll's 16-character identifier.

Body

The poll encoded in XML according to schema poll.xsd.

Example:

```
<poll xmlns="http://doodle.com/xsd1">
<title>PPP</title>
<description>yum!</description>
<initiator>
<name>Paul</name>
</initiator>
```

```
<options>
<option>Pasta</option>
<option>Pizza</option>
<option>Polenta</option>
<option>P4</option>
</options>
</poll>
```

Header

X-DoodleKey:**KEY**

KEY denotes the poll's 8-character key.

Optionally, you can also include a new <state> (OPEN or CLOSED), new <extensions> (columnConstraint or rowConstraint; time-zone support (or lack thereof) cannot be changed), and <hide> (true) or un-<hide> (false) the poll. To support picking final options, the individual options can be flagged as final (final="true"). Using the API, multiple options can be selected as final, but this is not supported by our web interface.

Response

Status Code

200 (OK)

DELETE

Request

Resource

/polls/**ID**

ID denotes the poll's 16-character identifier.

Header

X-DoodleKey:**KEY**

KEY denotes the poll's 8-character key.

Response

Status Code

204 (No Content)

Participant

POST (i.e., „save as“)

Request

Resource

/polls/**ID**/participants

ID denotes the poll's 16-character identifier.

Body

The participant encoded in XML according to schema participant.xsd.

Example:

```
<participant xmlns="http://doodle.com/xsd1">
<name>Paul</name>
<preferences>
<option>1</option>
<option>1</option>
<option>0</option>
</preferences>
</participant>
```

A <participant>'s <name> is mandatory. Optionally, you can also include her/his <userId> (cf. AAforRESTfulDoodle.pdf).

Response

Header

Content-Location:**ID**

ID denotes the participant's identifier.

Status Code

201 (Created)

PUT (i.e., „save“)

Request

Resource

/polls/**ID1**/participants/**ID2**

ID1 denotes the poll's 16-character identifier. **ID2** denotes the participant's identifier.

Body

The participant encoded in XML according to schema participant.xsd.

Example:

```
<participant xmlns="http://doodle.com/xsd1">
<name>Paul</name>
<preferences>
<option>1</option>
<option>1</option>
<option>0</option>
<option>0</option>
</preferences>
</participant>
```

Header (optional)

X-DoodleKey:KEY

KEY denotes the poll's 8-character key. Including the right key makes a difference when the poll is a hidden poll.

Response

Status Code

200 (OK)

DELETE

Request

Resource

/polls/ID1/participants/ID2

ID1 denotes the poll's 16-character identifier. ID2 denotes the participant's identifier.

Header (optional)

X-DoodleKey:KEY

KEY denotes the poll's 8-character key. Including the right key makes a difference when the poll is a hidden poll.

Response

Status Code

204 (No Content)

Comment

POST (i.e., „save as“)

Request

Resource

/polls/ID/comments

ID denotes the poll's 16-character identifier.

Body

The comment encoded in XML according to schema comment.xsd.

Example:

```
<comment xmlns="http://doodle.com/xsd1">
<who>Paul</who>
<what>yada, yada, yada</what>
</comment>
```

Optionally, you can also include the commentator's <userId> (cf. AAforRESTfulDoodle.pdf).

Response

Status Code

201 (Created)

DELETE

Request

Resource

/polls/ID1/comments/ID2

ID1 denotes the poll's 16-character identifier. ID2 denotes the comment's identifier.

Header

X-DoodleKey:KEY

KEY denotes the poll's 8-character key. Including the right key is necessary to delete a poll.

Response

Status Code

204 (No Content)

User

Accessing users always requires authentication and authorization, even on the test server, and is documented in AAforRESTfulDoodle.pdf.