



voxeo

Tropo WebAPI

Leveraging the cloud to add real-time communications to your Web Apps

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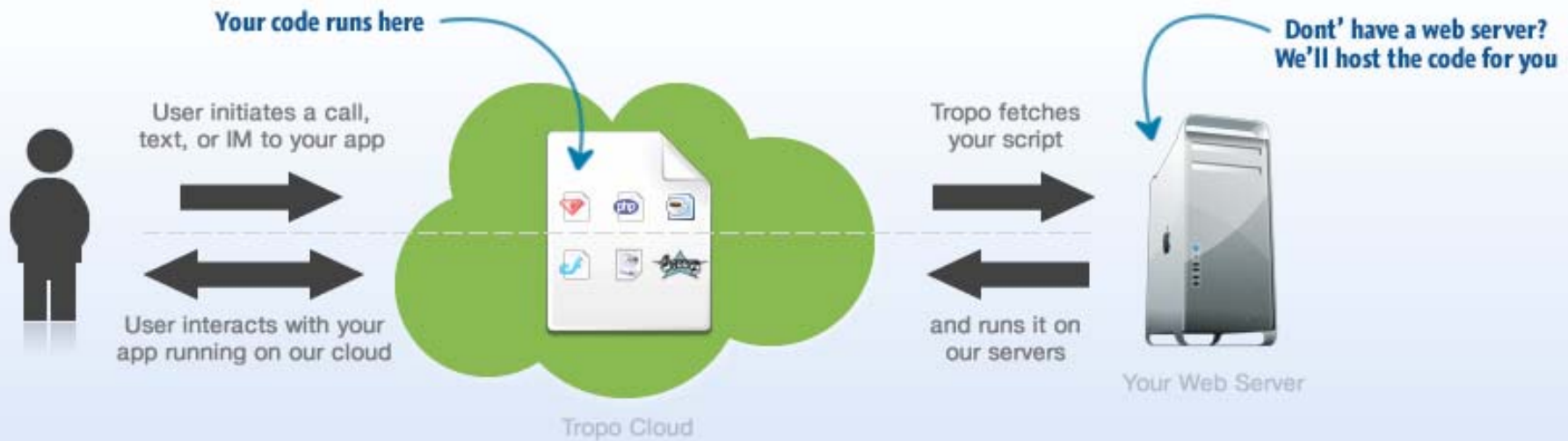


What is Tropo?

- ▶ Simple API
 - Tropo Scripting
 - Tropo Web API
- ▶ Multi-Channel
 - Voice, SMS and IM
- ▶ Speech Synthesis (TTS)
- ▶ Speech Recognition (ASR)



Tropo Scripting



Tropo Scripting - Example



```
01. answer();
02.
03. event=record("Leave your message at the beep. Thanks!",
04.   [
05.     beep:true, silenceTimeout: 5, maxTime:60, timeout:10,
06.     onRecord: {event-> say("you said " + event.recordURI ) }
07.   ] );
08.
09. log( "event.recordURI = " + event.recordURI );
10.
11. hangup();
```

Tropo WebAPI



What is JSON?

```
{
  "firstName": "John",
  "lastName": "Smith",
  "age": 25,
  "address": {
    "streetAddress": "21 2nd Street",
    "city": "New York",
    "state": "NY",
    "postalCode": "10021"
  },
  "phoneNumbers": [
    { "type": "home", "number": "212 555-1234" },
    { "type": "fax", "number": "646 555-4567" }
  ],
  "newSubscription": false,
  "companyName": null
}
```

A possible equivalent for the above in XML could be:

```
<Person>
  <firstName>John</firstName>
  <lastName>Smith</lastName>
  <age>25</age>
  <address>
    <streetAddress>21 2nd Street</streetAddress>
    <city>New York</city>
    <state>NY</state>
    <postalCode>10021</postalCode>
  </address>
  <phoneNumber type="home">212 555-1234</phoneNumber>
  <phoneNumber type="fax">646 555-4567</phoneNumber>
  <newSubscription>>false</newSubscription>
  <companyName />
</Person>
```

Initial Message - Session

```
{
  "session": {
    "id": "1aa06515183223ec0894039c2af433f2",
    "accountId": "33932",
    "timestamp": "2010-02-18T19:07:36.375Z",
    "userType": "HUMAN",
    "initialText": null,
    "to": {
      "id": "9991427645",
      "name": "unknown",
      "channel": "VOICE",
      "network": "PSTN"
    },
    "from": {
      "id": "jsgoecke",
      "name": "unknown",
      "channel": "VOICE",
      "network": "PSTN"
    },
    "headers": {
      "CSeq": "2 INVITE",
      "To": "<sip:9991427645@10.6.61.101:5060>",
      "From": "<sip:jsgoecke@10.6.63.104:5060>",
      "Via": "SIP/2.0/UDP 66.193.54.18:5060;received=10.6.63.104",
      "Call-ID": "0-13c4-4b7d8ff7-1c3c1b82-7935-1d10b080",
      "Content-Type": "application/sdp",
      ...
    }
  }
}
```

Response - Say

```
{
  "tropo": [
    {
      "say": [
        {
          "value": "Listen to my great sounds..."
        },
        {
          "value": "http://myapp.com/audio/my_great_sounds.mp3"
        }
      ]
    }
  ]
}
```

Tropo WebAPI - Ruby Example



```
require 'rubygems'
require 'sinatra'
require 'tropo-webapi-ruby'

post '/helloworld.json' do
  Tropo::Generator.say 'Hello World!'
end

post '/helloworld_block.json' do
  tropo = Tropo::Generator.new do
    say 'Hello World!'
  end
  tropo.response
end

post '/helloworld_twice.json' do
  tropo = Tropo::Generator.new
  tropo.say 'Hello World!'
  tropo.say 'Hello again.'
  tropo.response
end
```





Beyond the Browser: Adding voice and real-time text to your web applications

- March 18th, 2010
- Presented by Adam Kalsey



Thank You

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