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Telegram bot implementation using LabVIEW

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Telegram	Fixed bug (Issue: Groups do not work #1)	7 months ago		
LICENSE	Initial commit	2 years ago		
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SimpleTelegramBot.lvproj	modified and refactored some VI's	7 months ago		
main.vi	Added Project files	2 years ago		

README.md

# Telegram-Bot-EN

These examples demonstrate the use of TelegramBotAPI in LabVIEW. Beginners will be useful to start read [Bots: An introduction for developers](#). The description in Russian is available [by reference](#).

## Getting Started

### Software and hardware

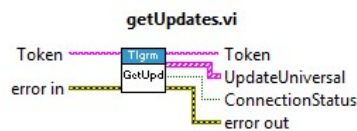
Example **TelegramBotSimpleExample** requires installed LabVIEW 2015+ and Internet access.

Example **myRIO+TelegramBOT Demo** in addition, requires the presence of modules Real-Time and FPGA, and hardware - myRIO 1900. Instead of myRIO with a small change of the project, you can use any device on the RIO platform (sbRIO, CompactRIO).

## Methods description

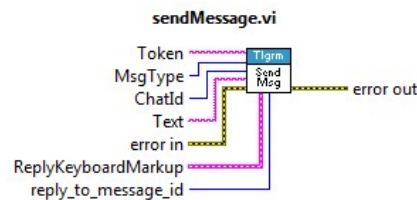
A bot receives updates using method **getUpdates** (long polling) and sends messages using method **sendMessage**. Currently, only these two methods work. Each update is an array of JSON-serialized *Update* objects.

### getUpdates



- Input terminals:
  - Token - bot token.
  - error in - input error cluster.
- Output terminals:
  - Token - bot token.
  - UpdateUniresal - array of *Update* objects.
  - ConnectionStatus - connection status indicator.
  - error out - output error cluster.

### sendMessage



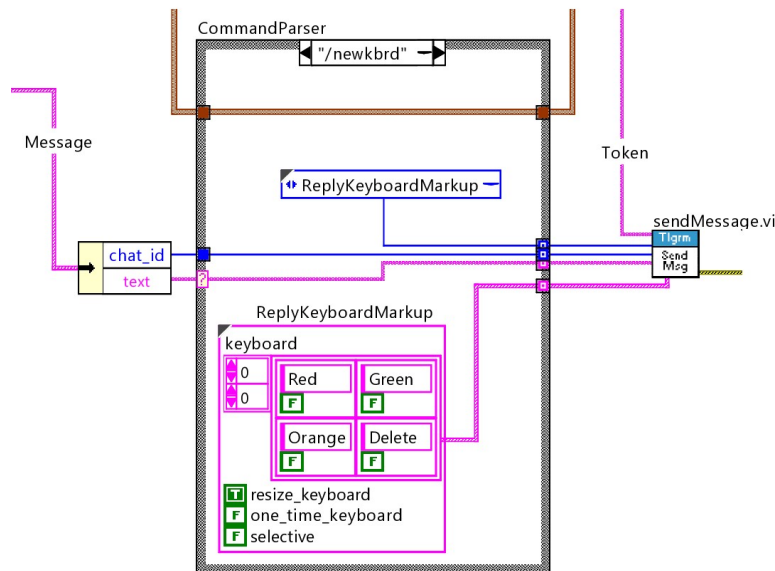
- Input terminals:
  - Token - bot token.
  - MsgType - message type (Text, ReplyKeyboardMarkup, ReplyKeyboardRemove).
  - ChatId - active chat indicator.
  - Text - message text.
  - ReplyKeyboardMarkup - [a custom keyboard with reply options](#).
  - ReplyToMessageId - parent message ID (in group chats).
  - error in - input error cluster.
- Output terminals:
  - error out - output error cluster.

## Bot examples

For a correct operation of each example:

- [create a bot in Telegram](#) and write in the field "Token" a token, [which sent @Botfather](#). The token must start with "bot", for example "bot275887199:AAHmg4xfDwkEIXKcgoITf0nrYVpOVITc8k0"
- On your device, start a private chat with the bot created in the previous step.
  - For testing, you can use the [@ATISIndBot](#) bot.





Example of creating a custom keyboard:

A — block diagram fragment that is responsible for creating and sending the keyboard.

B — result displayed in chat.

## myRIO+TelegramBOT Demo

This is a more complex example of implementing the logic of bot, although the meaning of his work remains the same. In this example, using messages in telegram, you can change the glow of custom LED1-3 LEDs on myRIO 1900 and perform some other functions.

To change LED glow, use next commands::

`/led#,Period(ms/us),DutyCycle(%)` - changes the character of user LED (1-3) . For example, `/led1,1000,50`. For LED1, 2 the period is set in ms, forLED3 in us.

`/led#` (without parameters), `#` - LED number (1-3). For example, `/led1`.As a result, bot will return user's keyboard with several buttons, allowing you to on/off the LED.

To obtain weather data in a certain city, use a command::

`/getweather,City,Region` , где City — required parameter, Region — optional parameter. For example `/getweather,miami,us` — bot will return a message with weather data in Miami, USA.

To get the current time of myRIO, use a command:

`/gettime` — the bot will return a message about myRIO current time.

## Authors

- Vadim Ladik - Initial work

## License

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## Acknowledgments

- Hat tip to anyone who's code was used

- Inspiration
- Sorry for my bad English
- etc