

Tuesday, Nov 21, 2017

5:00 PM - 7:00 PM (UTC+01:00, Paris)

01:00 PM - 03:00 PM (UTC-03:00, Chilean Time)

Pharo TechTalk: Discord Demo

Juraj Kubelka https://github.com/JurajKubelka/DiscordSt

```
Metacello new
   baseline: #DiscordSt;
   repository: 'github://JurajKubelka/DiscordSt/src';
   load.
```

TechTalk Outline

- 1. **Webhook** is a low-effort way to **write messages** to channels in Discord using a secret URL.

 GitHub is supported directly.

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- 2. **Bot Application** is a "chatbot" that can **read and write messages** and manage servers and channels. E.g., Lighthouse by Kilon: "what is pharo?"
- 3. **Standard User** account with an email and password. *Notice that using such account to connect bots is strictly prohibited.*

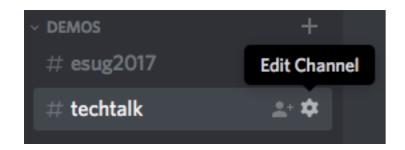
TechTalk Outline

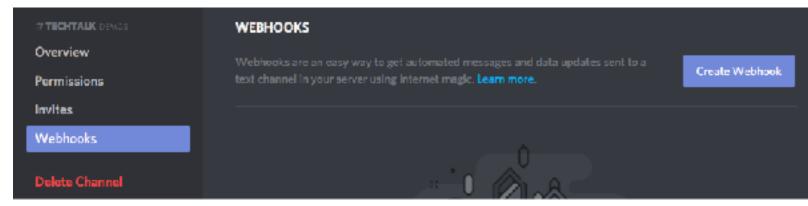
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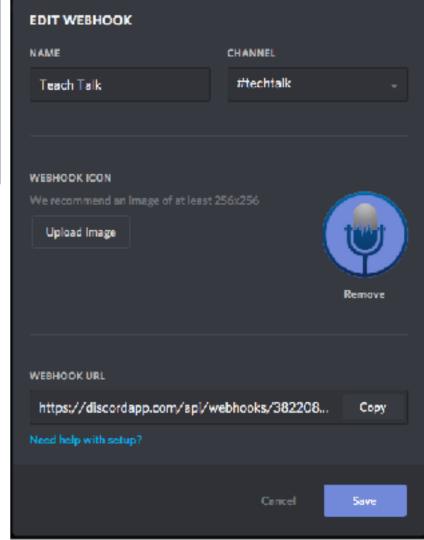
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Webhook Configuration



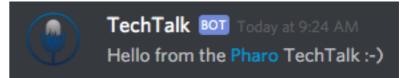




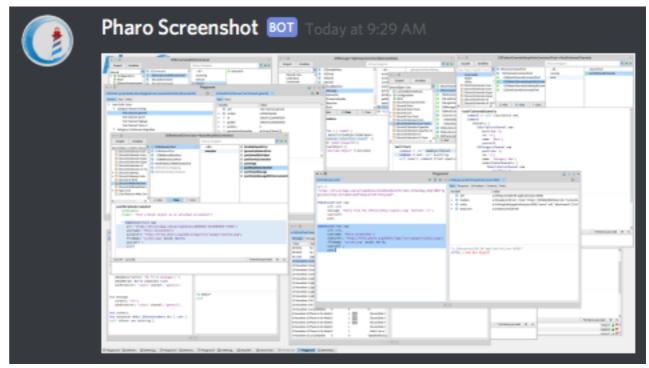


Webhook Examples

DSWebhookClient new url: 'https://discordapp.com/api/webhooks/WEBHOOK-ID/WEBHOOK-TOKEN'; message: Hello from the [Pharo](http://pharo.org) TechTalk :-)'; post



```
DSWebhookClient new
    url: 'https://discordapp.com/api/webhooks/WEBHOOK-ID/WEBHOOK-TOKEN';
    username: 'Pharo Screenshot';
    avatarUrl: 'http://files.pharo.org/media/logo/icon-opaque-512x512.png';
    fileName: 'screen.png' morph: World;
    post.
```

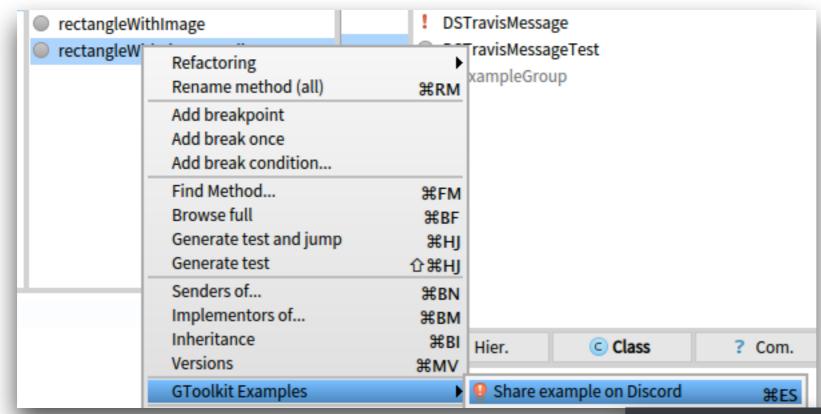


Webhook Examples: Embed

```
DSWebhookClient new
    url: 'https://discordapp.com/api/webhooks/WEBHOOK-ID/WEBHOOK-TOKEN';
    username: 'Pharo Screenshot as Embed';
    avatarUrl: 'http://files.pharo.org/media/logo/icon-opague-512x512.png';
    embedTitle: 'Discord Bot Announcement';
    embedDescription: 'Embed is a structured message. See [documentation](https://discordapp.com/developers/docs/
resources/channel#embed-object)';
    embedUrl: 'https://github.com/JurajKubelka/DiscordSt';
    embedMorph: World:
    embedColor: Color green;
    embedFooterText: 'Discord API in Pharo';
    embedFooterIconUrl: 'https://discordapp.com/assets/2c21aeda16de354ba5334551a883b481.png';
    post
                                                           Pharo Screenshot as Embed BOT Today at 4:02 PM
                                                             Discord Bot Announcement
                                                             Embed is a structured message. See documentation
                                                             Phar()
```

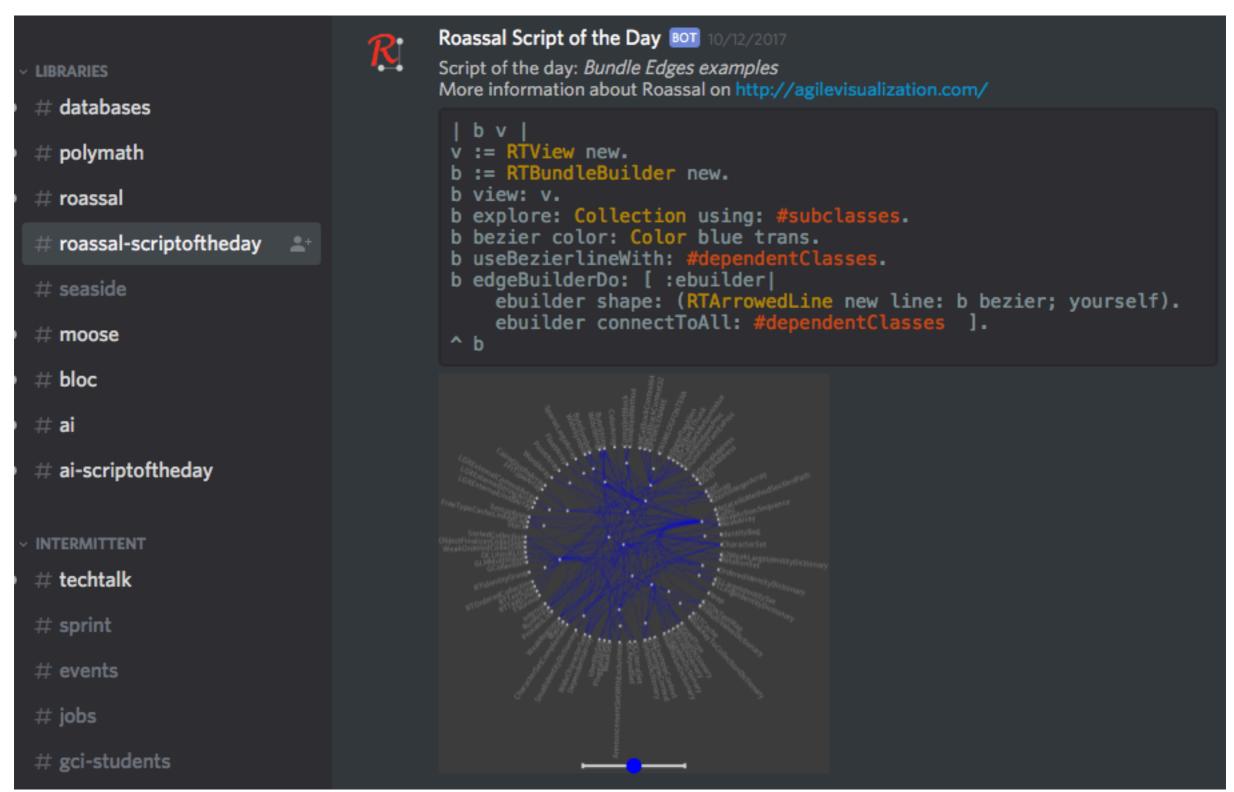
Discord API in Pharo

Webhook Use Case #1



Sharing Experience within Pharo

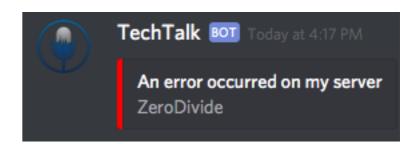
Roassal Script of the Day



Webhook Use Case #2



Be informed about strange behavior on my server



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Bot App Configuration

Create Bot App
https://discordapp.com/developers/applications/me

Bot

You can bundle a Bot User with your app to interact with users in a more conversational manner. This action is irreversible.

Learn more about bot users.

APP DETAILS

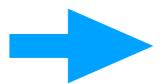
Client ID: 382211453970808832

Generate Permissions and Authorize the Bot https://discordapi.com/permissions.html

Link: https://discordapp.com/oauth2/authorize?client_id=INSERT_CLIENT_ID_HERE&scope=bot&permissions=0

Bot App Examples

```
DSBot new token: 'BOT-TOKEN'; servers.
```

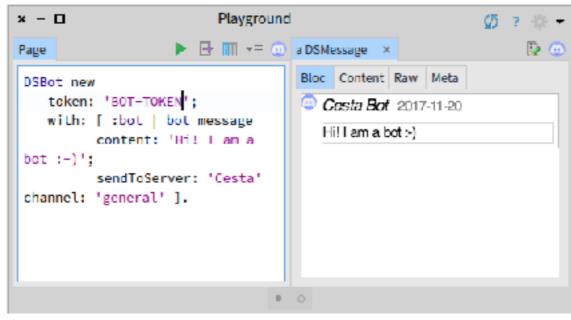


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 DSBot new
    token: 'BOI TOKEN';

▼ User Guild: Cesta
    servers.
                                                Category: Manual Testing
                                                       Text Channel: general
                                                       Text Channel: sprint
                                                       Text Channel: togbugz
                                                       Lext Channel: travis-ci
                                                ▼ Category: Continuous Integration
                                                       Text Channel: commits
                                                       Text Channel: test cases
```

```
DSBot new
    token: 'BOT-TOKEN';
    with: [ :bot | bot message
        content: 'Hi! I am a bot :-)';
    sendToServer: 'Pharo' channel: 'general' ].
```



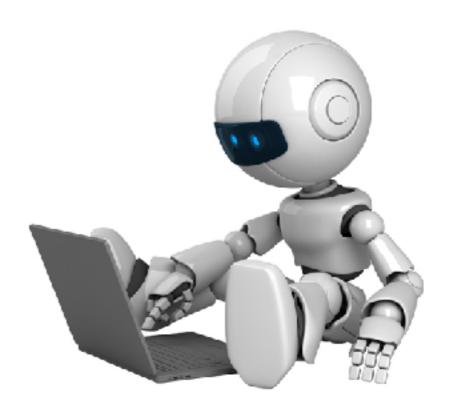


Bot Application

How can I install Bloc?

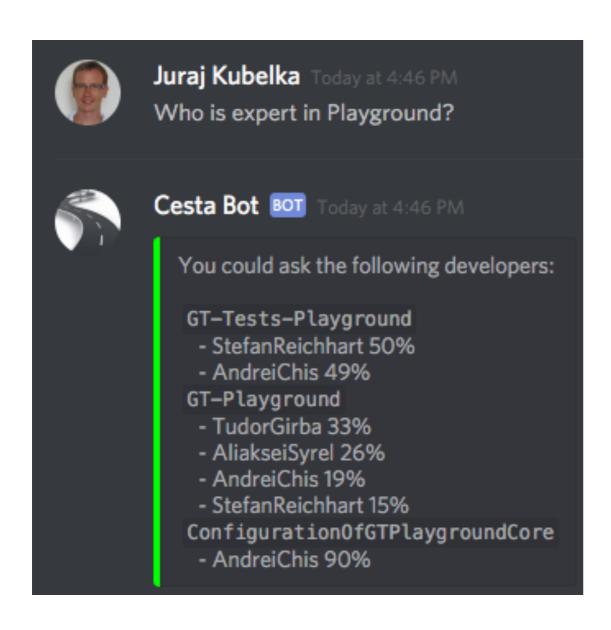
Is there a documentation about Spec?

Do we have a library to parse JSON?

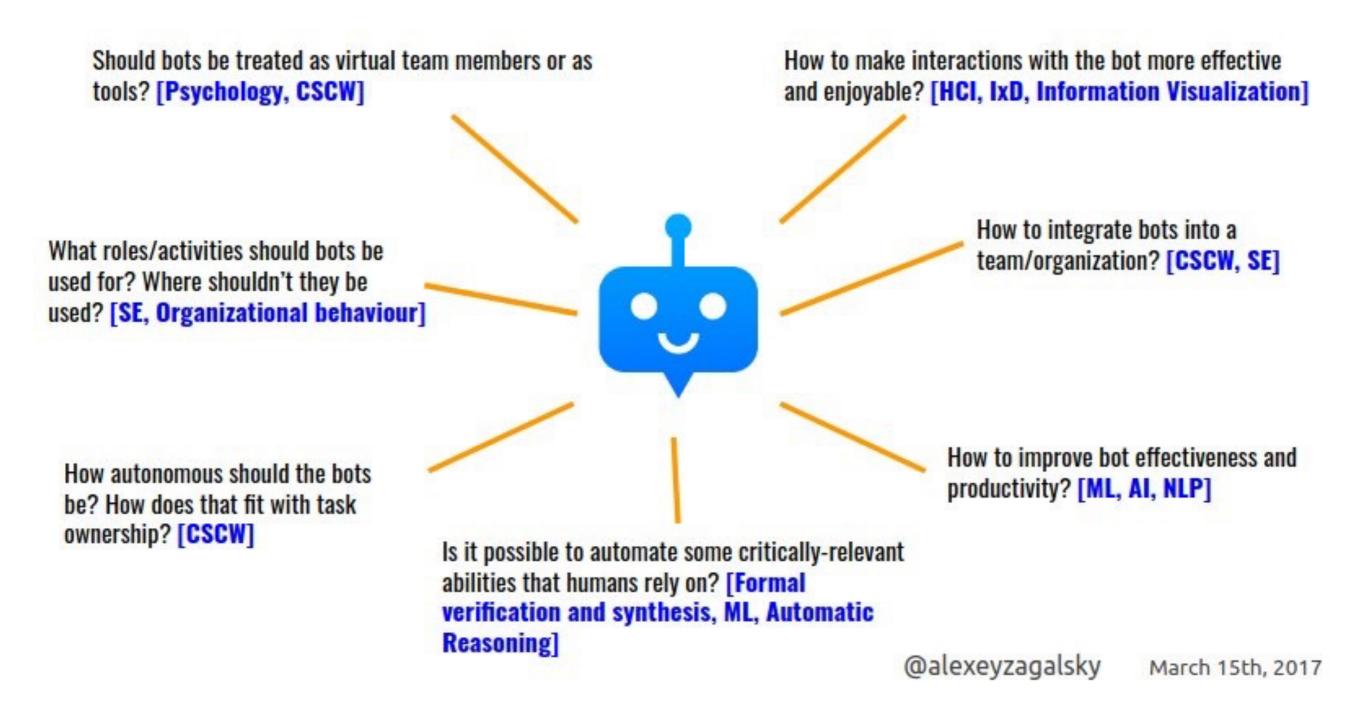




Bot Use Case: Expertise



Bot (Chatbot) Research



https://twitter.com/alexeyzagalsky/status/927661437350060032

TechTalk Outline

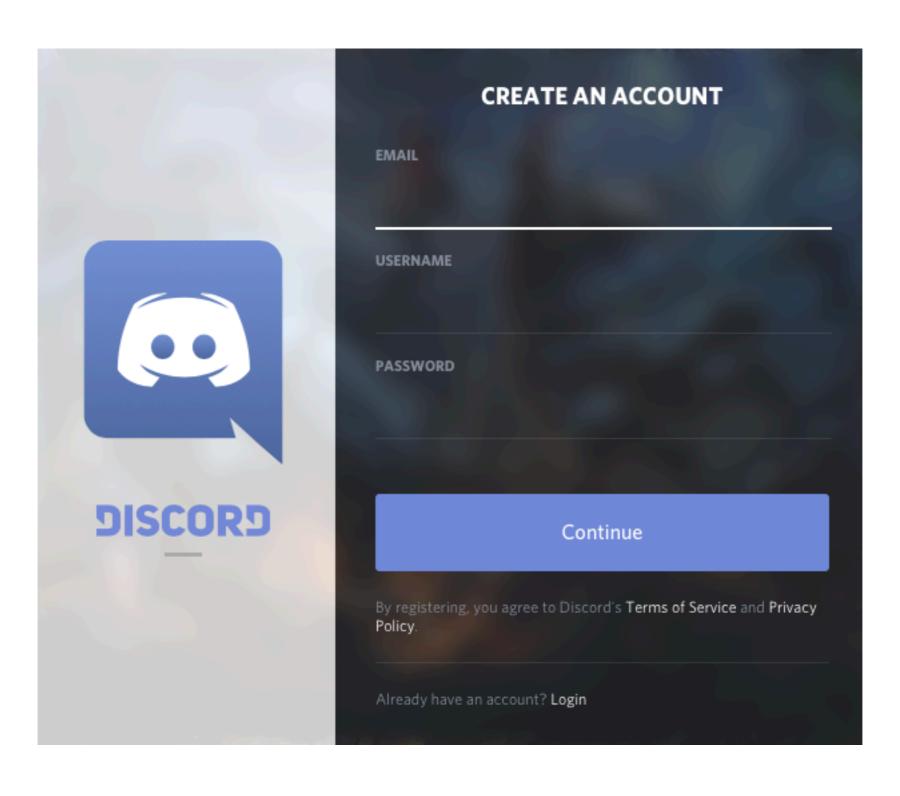
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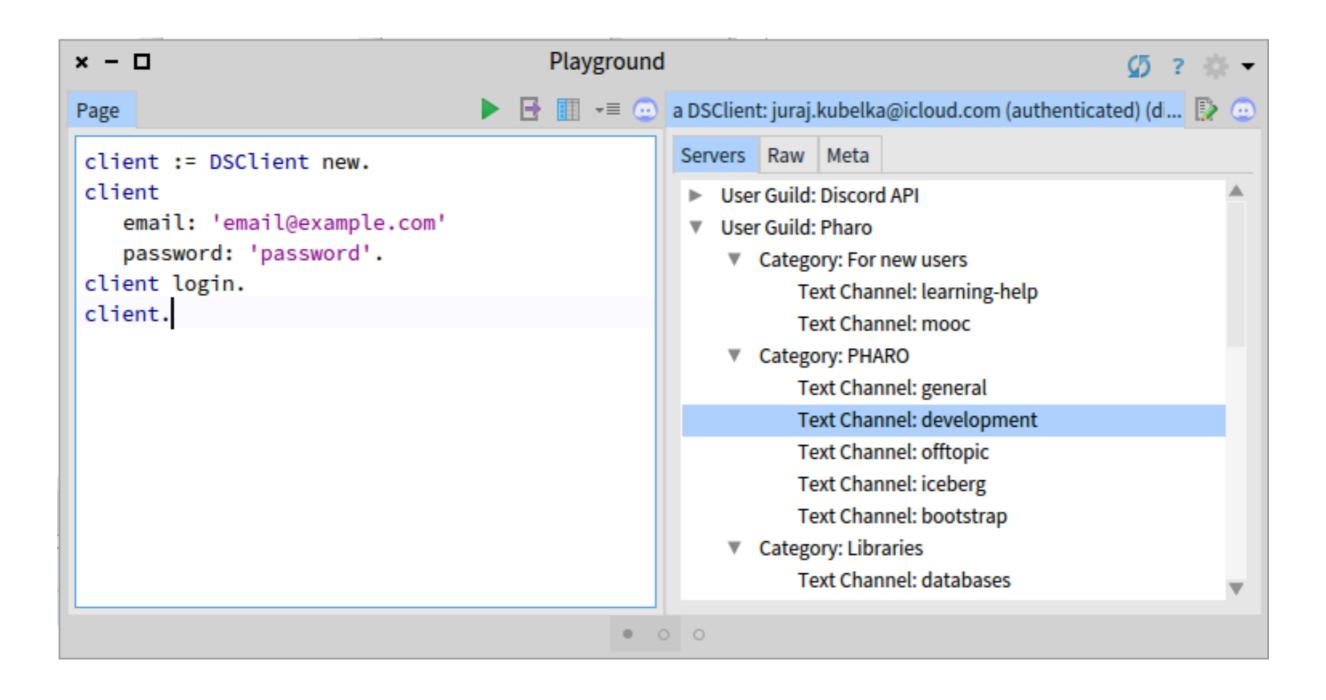
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Client Configuration

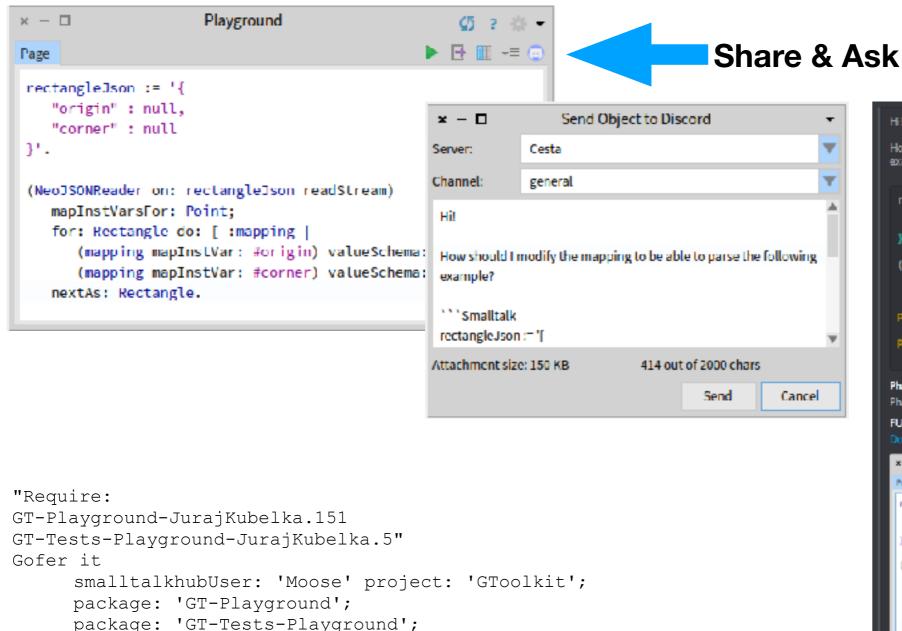


Client Examples



Client Use Case: Ask

Don't you know how to solve your task? Ask!



load.

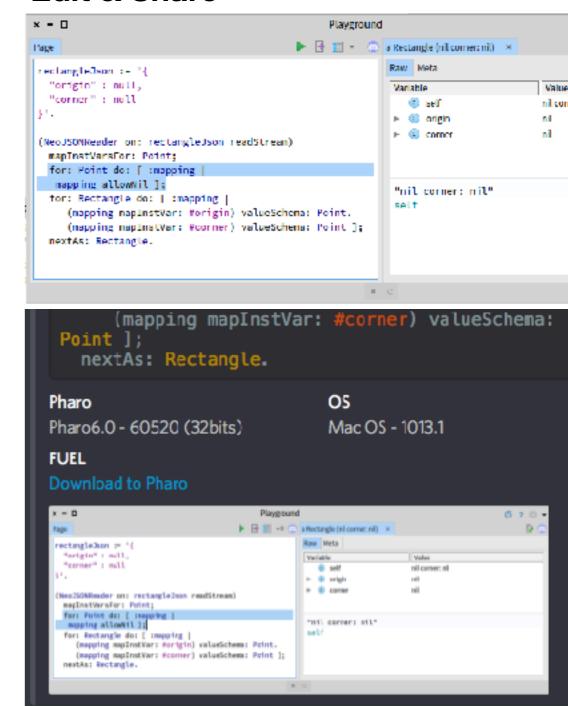
```
How should I modify the mapping to be able to parse the following:
 rectangleJson := '{
    "corner" : null
 (NeoJSONReader on: rectangleJson readStream)
    (mapping mapInstVar: #corner) valueSchema:
    nextAs: Rectangle.
                             Mac OS = 1013.1
Pharo6.0 - 60520 (32bits)
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                                         B □ -= 6
  rectangleJson := "{
   "origin" : null.
    "corner" : null
  NecOSOMReader on: rectangleIson readStream)
   mapInstVersFor: Point;
   for: Mectangle do: [ :mapping |
      (mapping mapInstVar: Worigin) valueSchema: Point.
      (mapping mapInstVar: #corner) valueSchema: Point ];
   nextAs: Rectangle.
```

Client Use Case: Answer

```
Hi!
How should I modify the mapping to be able to parse the following
 rectangleJson := '{
     "origin" : null,
     "corner" : null
 (NeoJSONReader on: rectangleJson readStream)
     mapInstVarsFor: Point:
     for: Rectangle do: [ :mapping |
         (mapping mapInstVar: #origin) valueSchema:
 Point.
         (mapping mapInstVar: #corner) valueSchema:
 Point 1:
     nextAs: Rectangle.
                                OS
Pharo
Pharo6.0 - 60520 (32bits)
                                Mac OS - 1013.1
FUEL
Download to Phare
                     Playground
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 Page
 rectangleJson := '{
    "origin" : null,
    "corner" : null
  (NeoJSONReader on: rectangleJson readStream)
    mapInstVarsFor: Point;
    for: Rectangle do: [ :mapping |
       (mapping mapInstVar: #origin) valueSchema: Point.
       (mapping mapInstVar: #corner) valueSchema: Foint ];
    nextAs: Rectangle.
```

Download

Edit & Share



Discussion

What other use cases would you like to try?

What would you like to discuss directly from Pharo?