

파이썬 머신러닝과 머신러닝 라이브러리 기초와 실습

1. 과정소개 및 준비

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01 소개

About Me

유양규 Senior Software Engineer

- Web/ in-house 애플리케이션 엔지니어 @미국 국무부 (US Department of State)
- MS Sharepoint, Data visualization front-end 엔지니어 @US Department of Veterans Affairs
- .NET 애플리케이션 @미국 노동부 (US Department of Labor)
- 기계학습 research, 파이썬 애플리케이션 Dev
- SQL 쿼리 데이터 분석, 조작(manipulation), 집계(aggregation), 구조 정규화
- 데이터 시각화 enthusiast

yangkyuyoo@gmail.com

About We

- 이름
- 아이디
- 하는일
- 인공지능하면 가장 먼저 떠오르는 영화, 드라마, 쇼, 기사, 기타 등등?
- 이번 연수에서 얻고 싶은 것은?



02

Curriculum (커리큘럼)

교육과정

Day 1

- 과정소개
- Python, 인공지능과 머신러닝 소개
- Python 머신러닝에 필요한 데이터분석 라이브러리 기초와 실습 1
- Python 머신러닝에 필요한 데이터분석 라이브러리 기초와 실습 2

Day 2

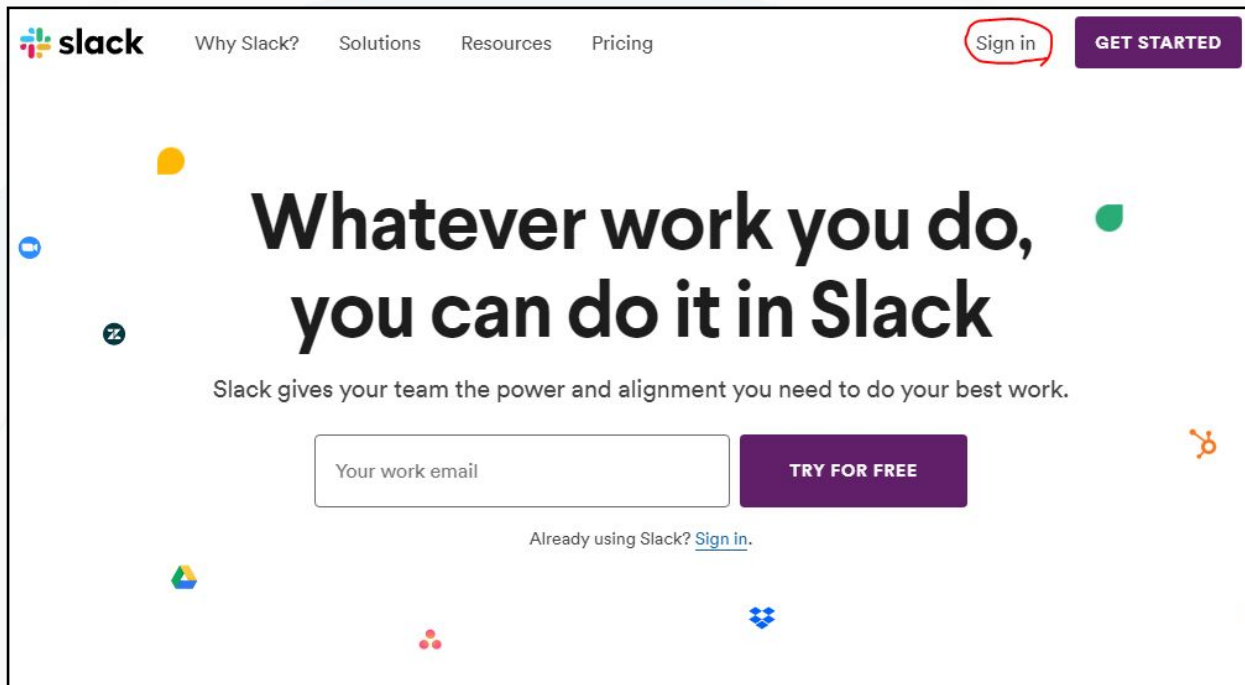
- Python 머신러닝에 필요한 데이터분석 라이브러리 기초와 실습 2
- 머신러닝 모델부터 예측까지 기초 이론
- 머신러닝 모델부터 예측까지 기초 실습 1
- 머신러닝 모델부터 예측까지 기초 실습 2
- 인공지능과 머신러닝 지금과 미래



03 Slack (슬랙)

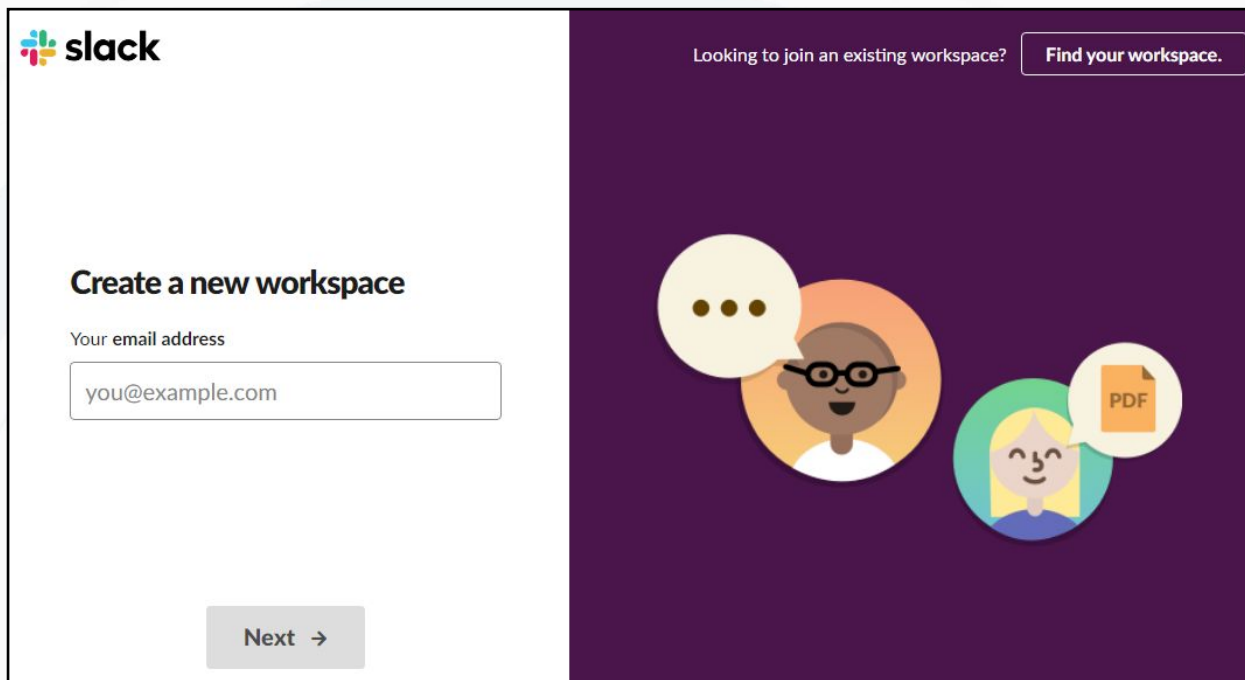
3-1 Slack Join하기

<https://slack.com> 으로 가서 Sign in을 합니다.



[workspace 새로만들기]

workspace를 새로 만들려면 email address을 입력하고 Next를 누릅니다.



The image shows the Slack 'Create a new workspace' interface. On the left, the Slack logo is at the top. Below it, the heading 'Create a new workspace' is followed by the label 'Your email address'. A text input field contains 'you@example.com'. At the bottom of this section is a 'Next →' button. On the right, a dark purple panel contains the text 'Looking to join an existing workspace?' and a button labeled 'Find your workspace.'. Below this text is an illustration of two stylized people: a man with glasses and an orange head, and a woman with blonde hair and a green head. A speech bubble with three dots is next to the man, and a speech bubble with a PDF icon is next to the woman.

[workspace 새로만들기]

Signing up을 완료합니다. Email로 code를 받은후 입력합니다.

**Confirm your email address**

Thank you for signing up for Slack. We're happy you're here!

Enter the following code in the window where you began creating your new Slack workspace:

460-778

This email contains private information for your Slack account — please don't forward it. Questions about setting up Slack? Email us at feedback@slack.com.

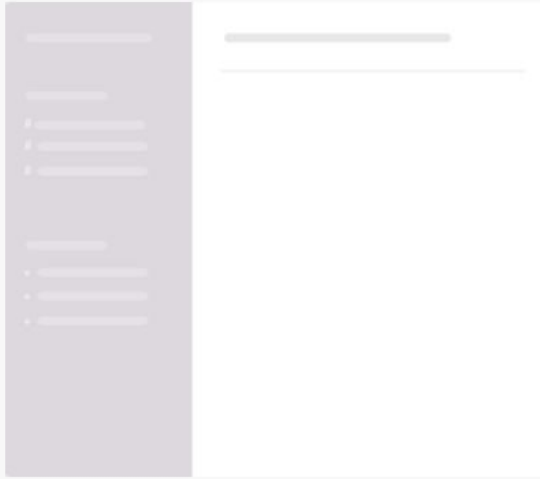
[workspace 새로만들기]

새로운 회사이름 혹은 팀 이름을 넣습니다.

What's the name of your company or team?

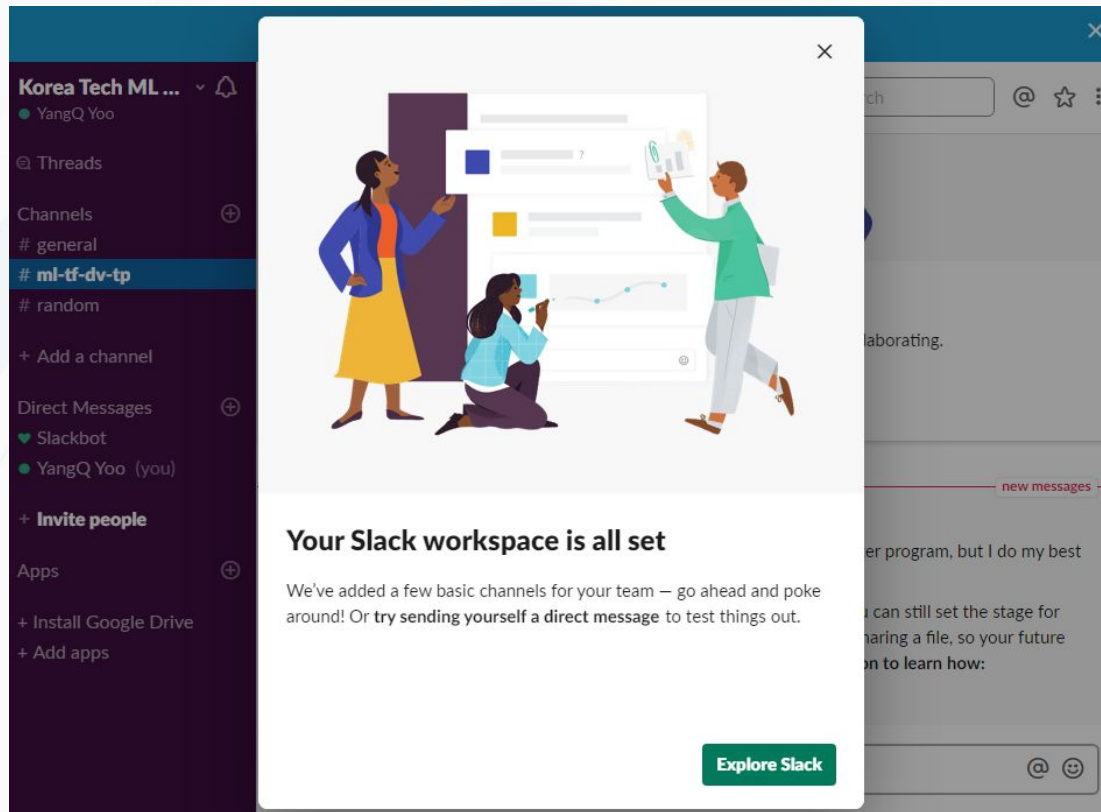
Next

By continuing, you're agreeing to our [Customer Terms of Service](#), [Privacy Policy](#), and [Cookie Policy](#).



[workspace 새로만들기]

workspace가 성공적으로 만들어지게 됩니다.



[workspace 조인하기]

슬랙에서 온 이메일을
확인하고 Join Now를
클릭합니다.

*업데이트: Korea Tech
2021 Summer Python &
Machine Learning

Join your team on Slack

yangkyuyoo (yangkyuyoo@gmail.com) has invited you to use Slack with them, in a workspace called **Korea Tech 2020 Winter Python AI**.



Korea Tech 2020 Winter Python AI

kt2020w-py.slack.com

Join Now

yangkyuyoo has already joined




[workspace 조인하기]


Full name과 Password을
입력합니다.

Full name - 이름


Display name - 슬랙안에서
사용되는 아이디 (나중에
profile에서 추가가능)



Join Korea Tech 2020 Winter Python AI on Slack



yangkyuyoo has already joined

 Continue with Google

OR

Full name

Password

Create Account

☒ It's okay to send me emails about Slack.

By continuing, you're agreeing to our [User Terms of Service](#), [Privacy Policy](#), and [Cookie Policy](#).

[workspace 조인하기]

Invite에서는 Skip For Now를 클릭합니다.

Invite your teammates

All set! You're joining YangQ Yoo. Anybody else you'd like to invite?

Email address

[+ Add another invitation](#)

Skip For Now

Send Invitations

[workspace 조인하기]

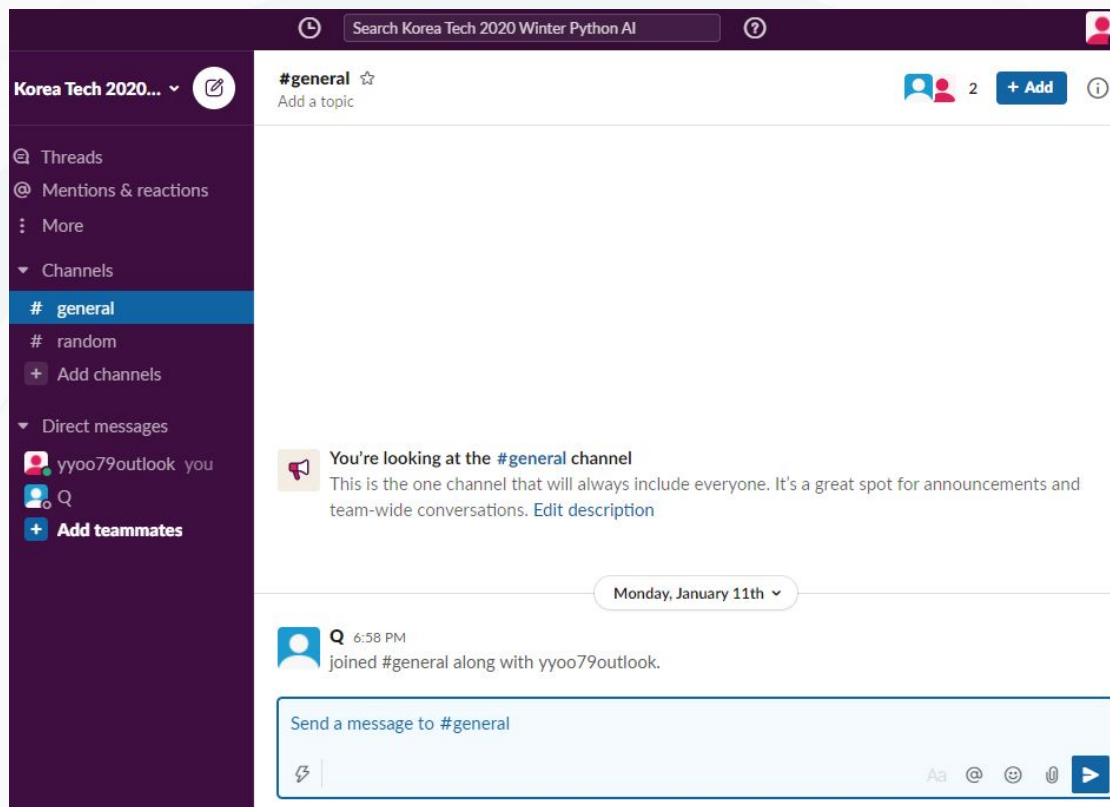
Join 성공 화면

The screenshot shows a Slack interface. On the left is a dark purple sidebar with the workspace name 'Korea Tech ML ...' and a notification bell. Below the name is a list of channels: '테스트1', 'Threads', 'Channels' (with a plus icon), '# general', '# ml-tf-dv-tp' (highlighted in blue), and '# random'. There is also an option to '+ Add a channel'. Under 'Direct Messages' (with a plus icon), there is 'Slackbot' with a red badge showing '1', '테스트1 (you)', and 'YangQ Yoo'. At the bottom of the sidebar are '+ Invite people', 'Apps' (with a plus icon), '+ Install Outlook Calendar', and '+ Add apps'. The main area shows the channel '#ml-tf-dv-tp' with a header bar containing a star, member count '2', topic count '0', and an 'Add a topic' button. Below the header, a message says 'You just joined #ml-tf-dv-tp' with a confetti icon. A list shows the channel was 'Created on June 6, 2019 by YangQ Yoo'. There is a checkbox option 'Don't show me this message when I join a channel' which is currently unchecked. At the bottom of the message area is a green button that says 'Got it!'.

[workspace 조인하기]

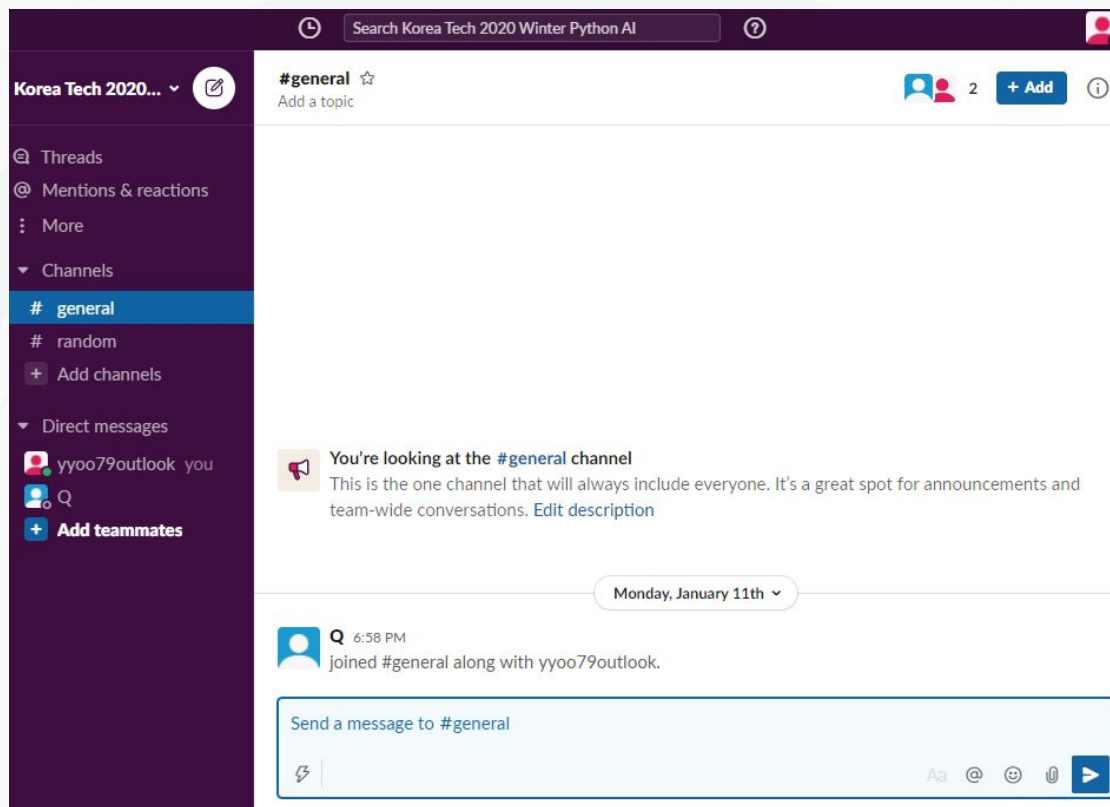
성공적으로 로그인했으면 Korea Tech 2021 Summer Python & Machine Learning으로 들어가게 됩니다.

Channel은 #general과 #random이 있습니다.




[workspace 조인하기]

Channel #general에 조인합니다.



[workspace 조인하기] OTHER OPTION (이메일 확인이 안되는 경우)

처음 화면으로 돌아가 Sign in 버튼을 누릅니다. **koreatech2021-rca8247.slack.com**를 넣습니다.

The image shows the Slack sign-in page. At the top is the Slack logo. Below it is the heading "Sign in to your workspace". Under the heading is the instruction "Enter your workspace's Slack URL". There is a text input field containing the placeholder text "your-workspace.slack.com". Below the input field is a dark purple button with the text "Continue". At the bottom of the page, there are two links: "Don't know your workspace URL? Find your workspaces" and "Looking to create a workspace instead? Create a new workspace".

 slack

Sign in to your workspace

Enter your workspace's Slack URL

Continue

Don't know your workspace URL? [Find your workspaces](#)

Looking to create a workspace instead? [Create a new workspace](#)

[workspace 조인하기] OTHER OPTION (이메일 확인이 안되는 경우)

아이디와 암호를 넣고 Sign in을 합니다.



Sign in to Korea Tech 2020 Winter Python AI

kt2020w-py.slack.com

 Continue with Google

OR

Email address

name@work-email.com

Password

Your password

Sign in

☒ Remember me on this device

Forgot your password? [Get help signing in](#)

Looking for another workspace? [Find your workspaces](#)



03 Slack (슬랙)

3-2 Slack 기능

02-1 슬랙봇(SlackBot)

도움이 필요할때 슬랙봇을 사용합니다.

키워드만 적어도 여러가지 옵션을 줍니다.

Hi, Slackbot here!



You can ask me simple questions about how Slack works, or just type a few keywords. For example: **Can I edit a message I've posted?** Or simply: **edit message**.

I'm only a bot, but I'll do my best to answer! If I don't understand, I'll search the [Help Center](#).






Message Slackbot








02-2 설문조사(Simple Poll)






익명 설문조사도 만들 수 있습니다.


 **YangQ Yoo** 7:44 PM
/poll "어디에 더 관심이 있습니까?" "머신러닝" "인공지능" "딥러닝" "데이터 시각화" "점심" anonymous


 **Simple Poll** APP 7:44 PM
 This poll is anonymous. The identity of all responses will be hidden.


어디에 더 관심이 있습니까?

-  1 머신러닝
-  2 인공지능
-  3 딥러닝
-  4 데이터 시각화
-  5 점심


    

 Delete Poll

 Simple Poll [Edit Settings](#)

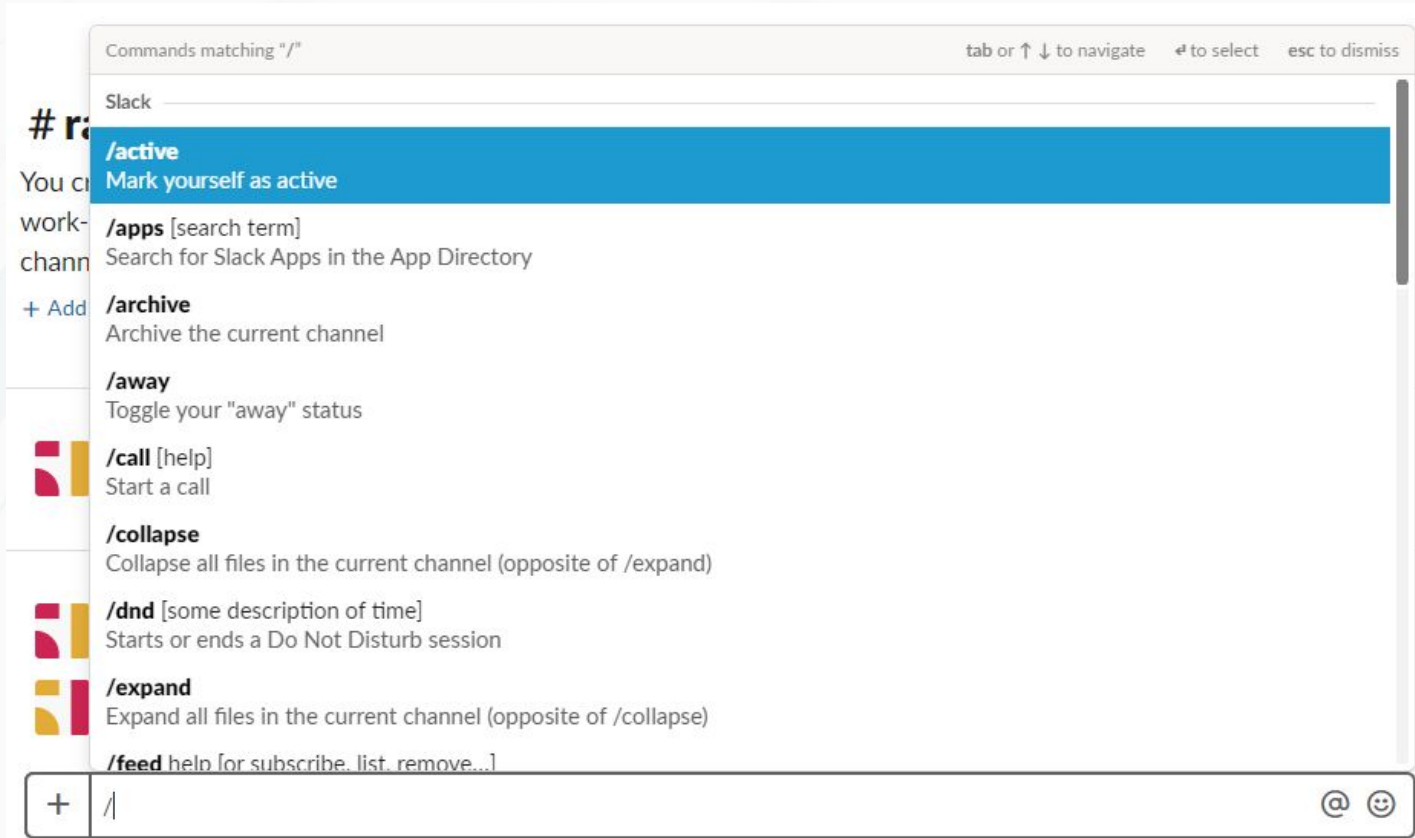
 Only visible to you

The red 'delete' button only works for you. No-one else in the team will be able to delete your poll. 😊

 Simple Poll

02-3 기타 기능

/ 를 사용해서 다양한 기능을 사용할 수 있습니다.

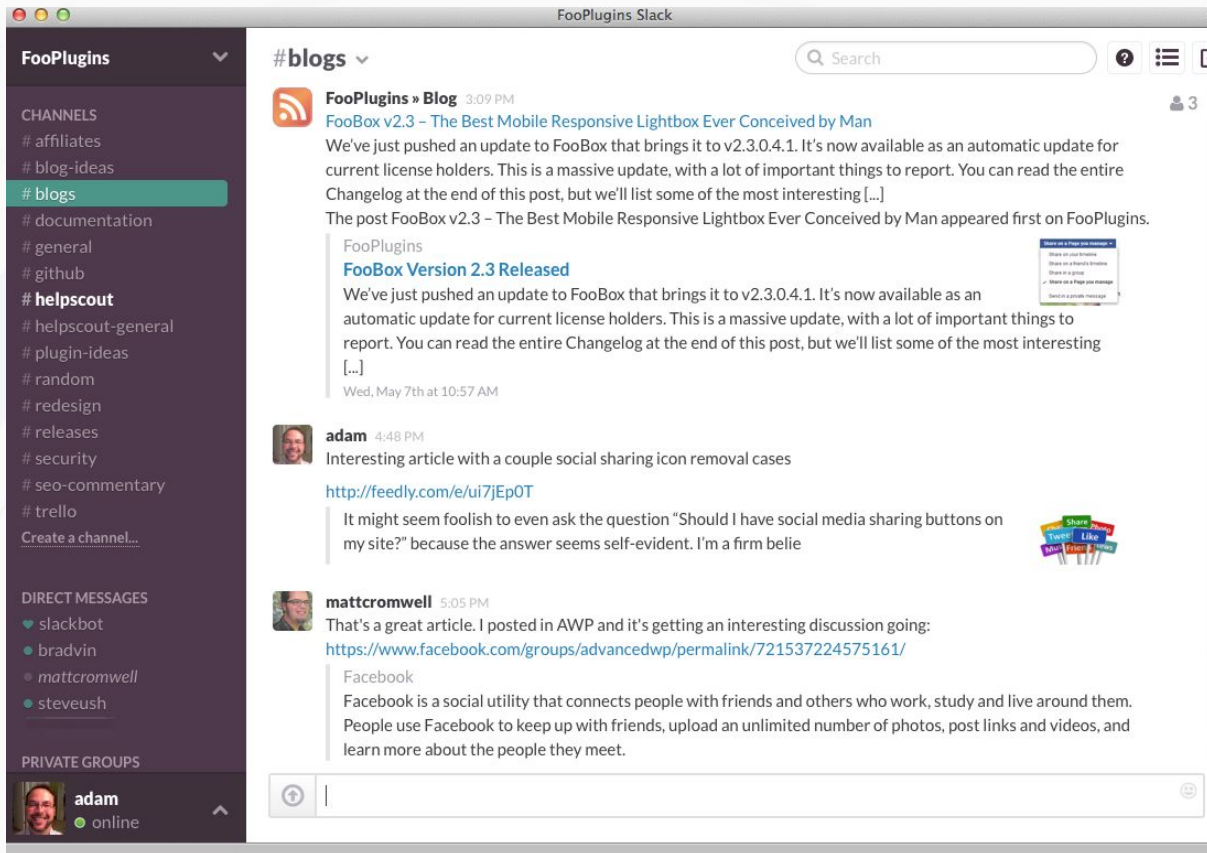













03 Slack (슬랙)

3-3 Why Slack?

1. 모든 팀 커뮤니케이션은 한 곳에서 진행됩니다.




2. 이미 사용하고있는 서비스와의 통합


 <p>Crashlytics Mobile crash analysis and reporting.</p> <p>+ Crashlytics</p>	 <p>Datadog SaaS app monitoring all in one place.</p> <p>+ Datadog</p>	 <p>Dropbox Cloud file storage and syncing.</p> <p>+ Dropbox</p>
 <p>GitHub Source control and code management.</p> <p>+ GitHub</p>	 <p>Google Drive Online document and file storage.</p> <p>+ Google Drive</p>	 <p>Google+ Hangouts Bring your conversations to life with free video calls.</p> <p>+ Google+ Hangouts</p>
 <p>GoSquared Real-time web analytics platform.</p> <p>+ GoSquared</p>	 <p>Help Scout Scalable customer support software.</p> <p>+ Help Scout</p>	 <p>Heroku Cloud application deployment and hosting.</p> <p>+ Heroku</p>


2. 이미 사용하고있는 서비스와의 통합


Daily Tools


[See all](#)


**Outlook Calendar**
Communication

**Slack for Gmail**
Communication

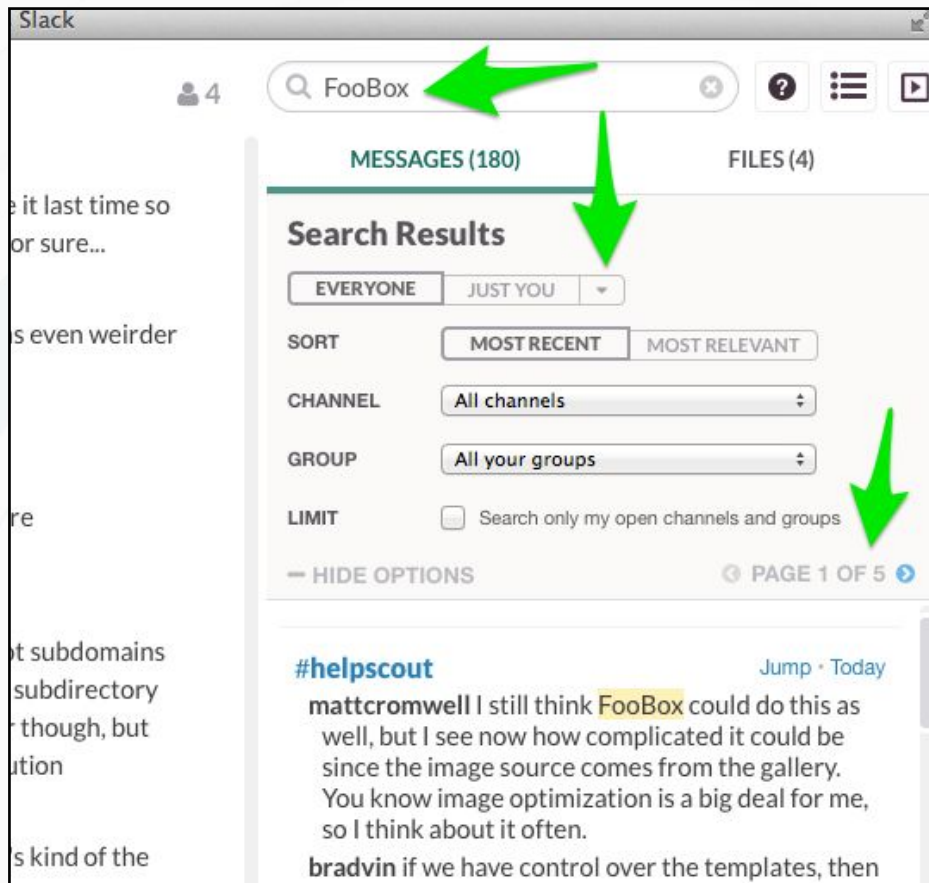
**Slack for Outlook**
Communication

**Google Drive**
File Management

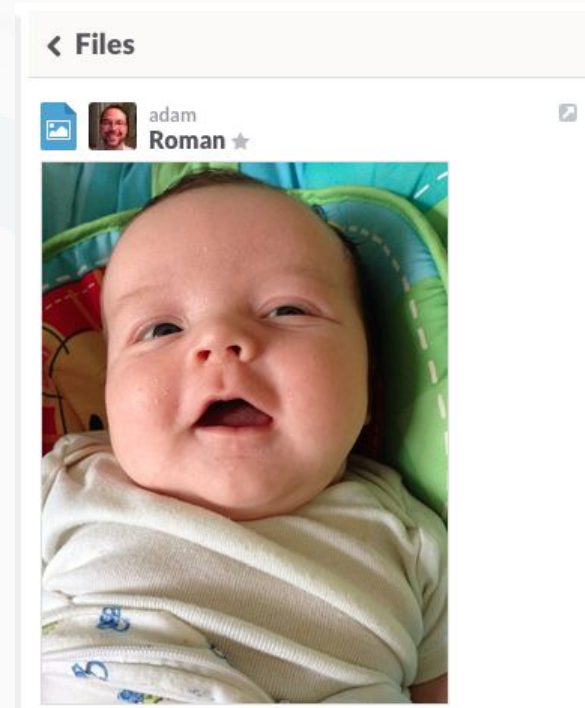
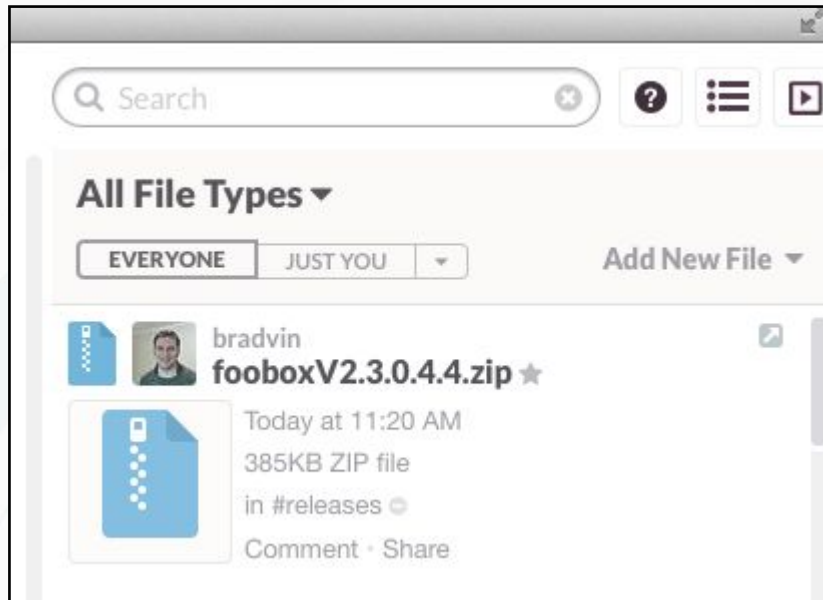
**Microsoft OneDrive**
File Management

**Zoom**
Communication

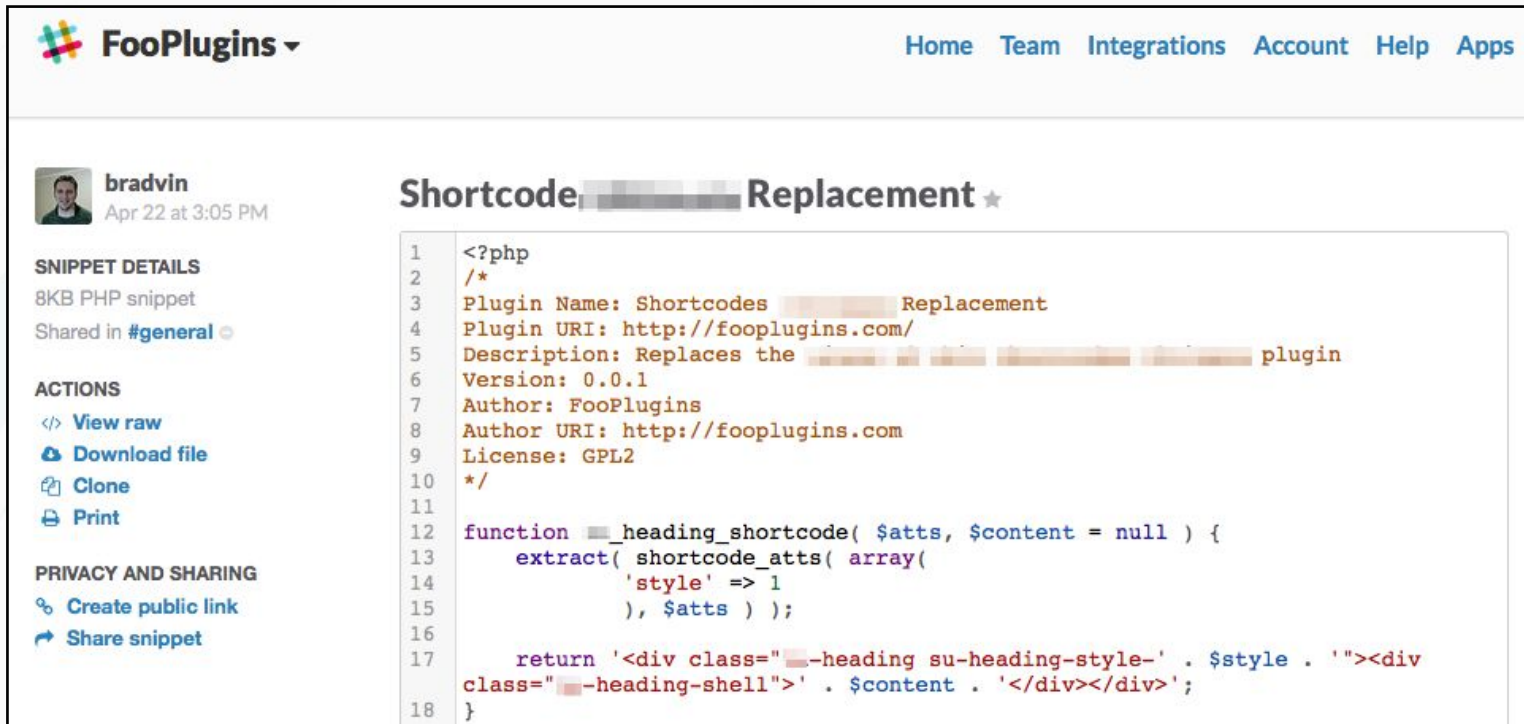
3. 하나의 검색 창에서 모든 콘텐츠를 검색 할 수 있습니다.



4. 파일 공유



5. 코드 스니펫(Code Snippet)



The screenshot shows a Slack interface for a channel named 'FooPlugins'. The message is from 'bradvin' and is titled 'Shortcode Replacement'. The code snippet is a PHP function that replaces a shortcode with a heading. The code is as follows:

```

1 <?php
2 /*
3 Plugin Name: Shortcodes Replacement
4 Plugin URI: http://fooplugins.com/
5 Description: Replaces the shortcode with a heading
6 Version: 0.0.1
7 Author: FooPlugins
8 Author URI: http://fooplugins.com
9 License: GPL2
10 */
11
12 function _heading_shortcode( $atts, $content = null ) {
13     extract( shortcode_atts( array(
14         'style' => 1
15     ), $atts ) );
16
17     return '<div class="' . _heading_su-heading-style- . $style . '"><div
18 class="' . _heading-shell">' . $content . '</div></div>';
19 }

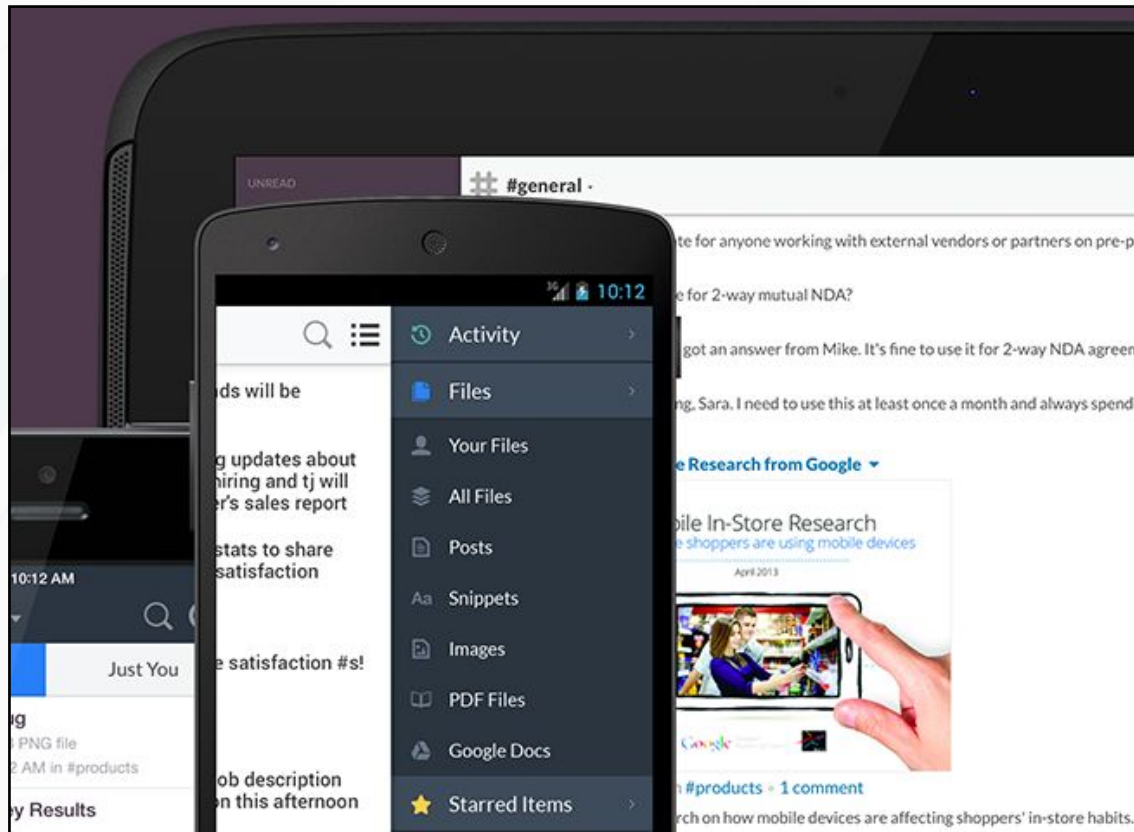
```

On the left side of the snippet, there are sections for 'SNIPPET DETAILS' (8KB PHP snippet, shared in #general), 'ACTIONS' (View raw, Download file, Clone, Print), and 'PRIVACY AND SHARING' (Create public link, Share snippet).

6. 일대일 및 비공개 그룹

- 팀 커뮤니케이션의 투명성은 분명 훌륭한 옵션이지만, 팀 구성원간에 개인적으로 무언가를 의사소통해야 할 때가 있습니다.
- 급여 관련 또는 팀 전체가 참여할 필요가 없는 다른 개인적인 상황이 있습니다.
- **Slack**은 다른 채팅 클라이언트와 마찬가지로 두 사람이 개인적으로 메시지를 교환할 수 있게 해줍니다.

7. 어디에서나 사용 가능



Reference

<https://slack.com/>