

# Introduction to **LIFF** (LINE Front-End Framework)



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# Agenda

- What is LIFF?
- LIFF Benefits
- LIFF Use cases
- Demo

**WHAT IS LIF**

# LIFF

LINE Frontend-End Framework

WebView that allows seamless integration between  
**CHAT** and **WEB**

HTML



JS

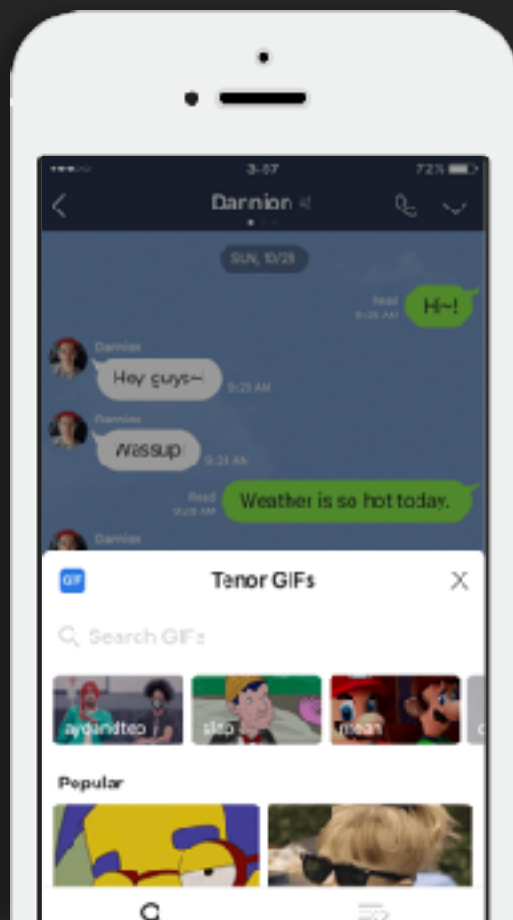


CSS

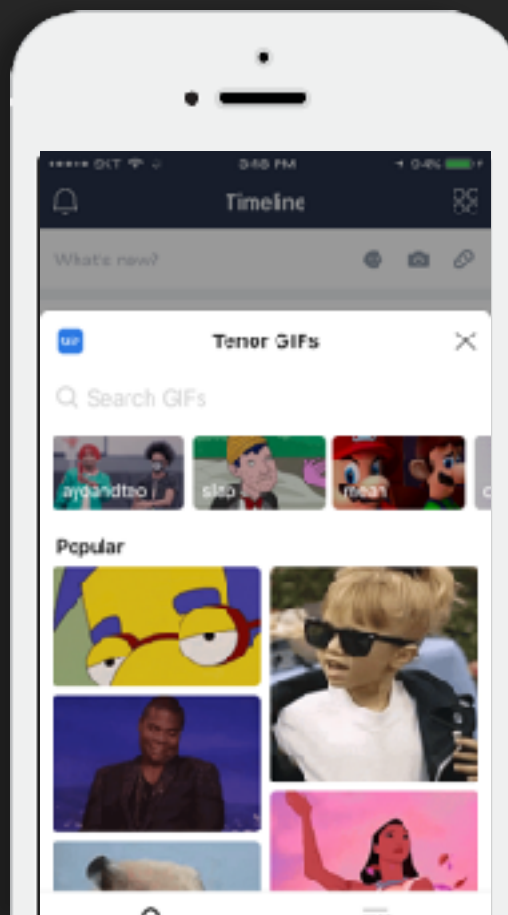


# MULTI VIEW SIZES

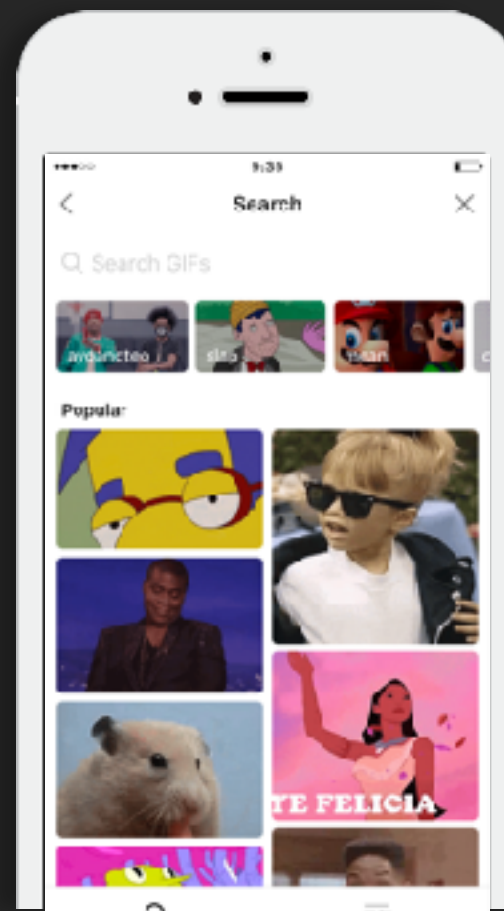
COMPACT



TALL



FULL



# **LIFF BENEFITS**

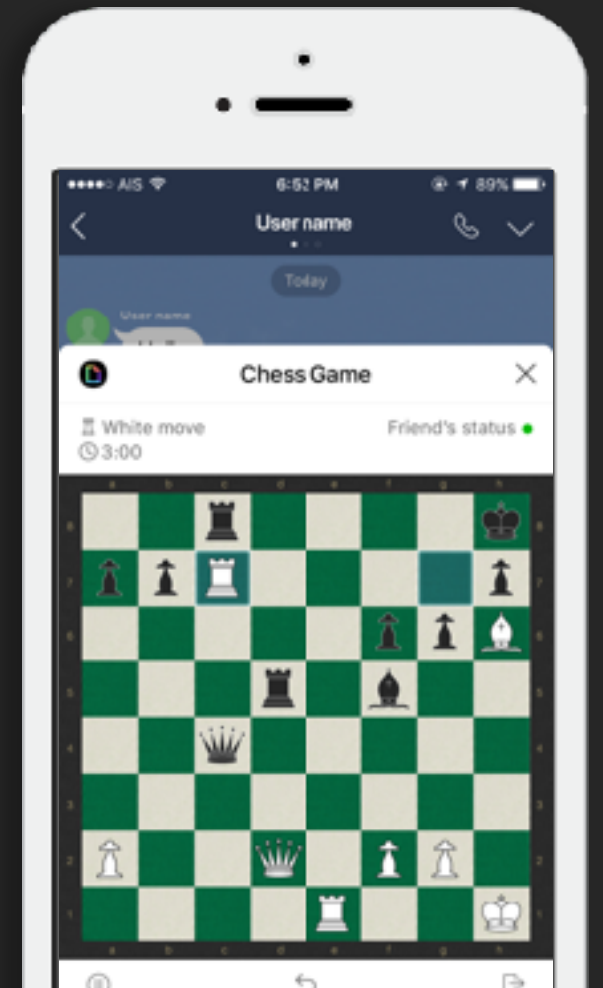
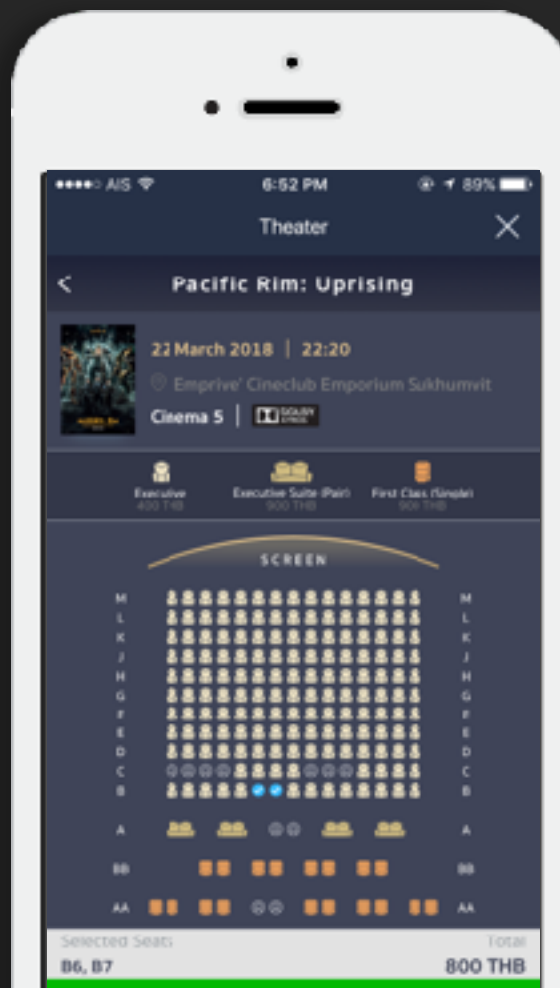
# LIFF BENEFITS

**ENHANCE  
CHAT BOT**

**USEFUL  
EXTENSION**

**REACHABLE  
END USERS**

# ENHANCE CHATBOT





# LIFF BENEFITS

ENHANCE  
CHAT BOT

USEFUL  
EXTENSION

REACHABLE  
END USERS

# USEFUL EXTENSION

UTILITY

GAME

IOT

OTHER

**LINE Front-End Framework**



# LIFF BENEFITS

ENHANCE  
CHAT BOT

USEFUL  
EXTENSION

REACHABLE  
END USERS

# Step to get started

- 1.Import LIFF SDK
- 2.Prepare Canvas
- 3.Call LIFF API
- 4.Handle save image
- 5.Register LIFF App



# 1. Import LIFF SDK

- LIFF SDK provide interface for LIFF Feature

```
//Load LIFF SDK
```

```
<script src="https://d.line-scdn.net/liff/1.0/sdk.js"></script>
```

## 2. Prepare Canvas

```
<script src="https://cdn.jsdelivr.net/npm/signature_pad@2.3.2/dist/signature_pad.min.js"></script>

<script>
  const canvas = document.querySelector('#canvas');
  const signaturePad = new SignaturePad(canvas, {
    backgroundColor: 'rgb(238,238,238)',
  });
  $(window).on('load', function(){
    canvas.setAttribute('width', $('.container').width());
    canvas.setAttribute('height', window.innerHeight - $('#btn').outerHeight() - 10);
    signaturePad.clear();
    liff.init(function (data) {});
  });
</script>
```

### 3. Call LIFF API

```
liff.getProfile().then(function (profile) {  
  liff.sendMessage([  
    {  
      type: 'image',  
      originalImageUrl: 'https://' + document.domain + '/imgs/' + res + '.jpg',  
      previewImageUrl: 'https://' + document.domain + '/imgs/' + res + '_240.jpg'  
    },  
    {  
      type: 'text',  
      text: 'From:' + profile.displayName  
    }  
  ]).then(function () {  
    liff.closeWindow();  
  })  
})
```

## 4. Handle Save Image

```
if not os.path.exists(dir_name):  
    os.makedirs(dir_name)  
with open(os.path.join(dir_name, '{}.jpg'.format(img_name)), 'wb') as img:  
    img.write(base64.b64decode(event['image'].split(",")[1]))  
  
original = Image.open(os.path.join(dir_name, '{}.jpg'.format(img_name)))  
  
original.thumbnail((240, 240), Image.ANTIALIAS)  
original.save(os.path.join(dir_name, '{}_240.jpg'.format(img_name)), 'JPEG')  
  
return make_response(img_name, 200)
```



## 5. Registration LIFF App

```
# Request
curl -XPOST \
-H "Authorization: Bearer {CHANNEL_ACCESS_TOKEN}" \
-H "Content-Type: application/json" \
-d '{
    "view": {
        "type": "full",
        "url": "https://example.com/myservice"
    }
}' \
https://api.line.me/liff/v1/apps
```

```
# Response
{"liffId": "0123456789-nXjrqEEr"}
# LINE Scheme
line://app/0123456789-nXjrqEEr
```

## LINE API PLAYGROUND



**THANK YOU :)**