

2021

-

**2022 SC Training - SC Tech Overview**  
**Japanese by Satoshi Ito**  
**English translation by Genji**

Press Space for the next page →

# Concept /

TARGET

SC

New members joining the SC department!

VALUE

SC  
SC

Overview of the required skill set for working in  
the SC dept.

Overview of the upcoming SC training lectures

**SC**

- SE

- 

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**SC Dept.'s Position**

- Essentially we are **System Engineers (SE)**
  - We **bridge** the Development & Sales dept.s
  - Many opportunities to present technical content to partners, external developers, & others!
- Showcasing tech in an "easy-to-understand" manner is vital!**
- Critically, we must understand the "tech"

# / sc Training Lectures

*Find your interest! : SC*

- Linux
- 
- 
- /
- / Web
- (cybozu.com)
- HTML / CSS
- JavaScript / API
- Git / GitHub
- Linux
- Computer Networking
- Database
- Shell Script & Regular Expression (RegEx)
- Authentication & Web Server
- Cloud Computing (cybozu.com)
- HTML & CSS
- JavaScript & API
- Git & GitHub

# / Operating System (os)

The Operating System (os) is the core software that runs the device

OS :

- Windows, Linux, MacOS
- Android, iOS

OS

- 
- 
- :

THE ROLE OF THE OS:

- Manages other software
- Mediates between hardware and software
- Ex) Typing on the keyboard triggers character input & pointer movement

# / Operating System (os)

## LINUX

- Linux
- Unix ,
- : ) !
- Unix

SC

Linux Windows Server  
Garoon

## LINUX LECTURE WILL COVER

- Linux history
- Unix command types and usage
- What is a command? : an *order*

Ex) Open a file using Unix commands

## HOW WILL THIS BE USED?

Building on-premises Garoon  
on Linux & Windows servers

# / Computer Networking

,  
,

- 

SC

- .com
- Garoon

The tech that connects multiple devices  
so they can exchange data  
and share resources with each other

NETWORK LECTURE WILL COVER

- Mechanism that connects the devices

HOW WILL THIS BE USED?

- .com migration business
- Building on-premises Garoon

# / Database

A collection of information organized for easy search and retrieval

- :
  - Database : A **box** filled with various data
  - Managed using database language like SQL

GAROON

,

IN GAROON'S CASE

Schedules, messages, & other information are stored in a database

# / Database

- SQL
- :

) MySQL, SQL Server, etc.

SC

- Garoon
- cybozu.com

DATABASE LECTURE WILL COVER

- Using SQL
- Database type

Ex) MySQL, SQL Server, etc.

HOW WILL THIS BE USED?

- Managing Garoon's database
- cybozu.com log analysis

# / Shell Script

( )

:

A type of a program that executes multiple simple commands {Instructions}

Program:

A set of instructions for a computer to follow

SHELL SCRIPT LECTURE WILL COVER

- Writing a shell script

HOW WILL THIS BE USED?

- Automation work: performance testing, automate building a Garoon instance

SC

■ ( , Garoon )



# / Shell Script

## EXAMPLE.SH

```
#!/bin/sh

echo "What is your name?"
read PERSON
echo "Hello, $PERSON"
```

## SET PERMISSIONS /

```
chmod +x example.sh
```

# / Regular Expression (RegEx)

1

1

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!

■

sc

■ JavaScript

■

Notation for expressing various types of character strings in one character string

Build complex search queries easily!

REGEX LECTURE WILL COVER

- How to write a regular expression

HOW WILL THIS BE USED?

- Coding such as *JavaScript*
- Changing text in bulk



# / Regular Expression (RegEx)

REGEX

```
( |s)kinton(en|e|)
```

MATCHES

- akintone
- kinton
- kintone
- kintonen
- skintone

# / Web Authentication & Web Server

Web

WEB

Web

## CERTIFICATION

Mechanism for confirming the legitimacy and authenticity of the object

The role of checking who is accessing the web service

## WEB SERVER

Server for providing web services

# / Web Authentication & Web Server

AUTHENTICATION & WEB SERVER LECTURE WILL COVER

- :  
, Basic , SAML ...

web

SC

- Garoon
- Garoon

Authentication types:

- Session authentication, Basic authentication, SAML authentication ...

How to build a web server

HOW WILL THIS BE USED?

- Building on-premises Garoon
- Configuring various authentication methods for Garoon

# / Cloud Computing

A form of providing services via the Internet

- cybozu.com
  - - Amazon Web Service (AWS)
    - Microsoft Azure
- CYBOZU.COM
- cybozu.com
- CYBOZU.COM LECTURE WILL COVER
- How cybozu.com works

# HTML & CSS

HTML

web

:

,

HTML

Markup language for creating web pages

Purpose:

Let's put a letter in this place and a button here

CSS

web

:

,

CSS

Stylesheets for styling web pages

Purpose:

Make this letter red and make this button bigger

# HTML & CSS

- HTML / CSS

SC

- Web
  - devnet, Cypn
- kintone

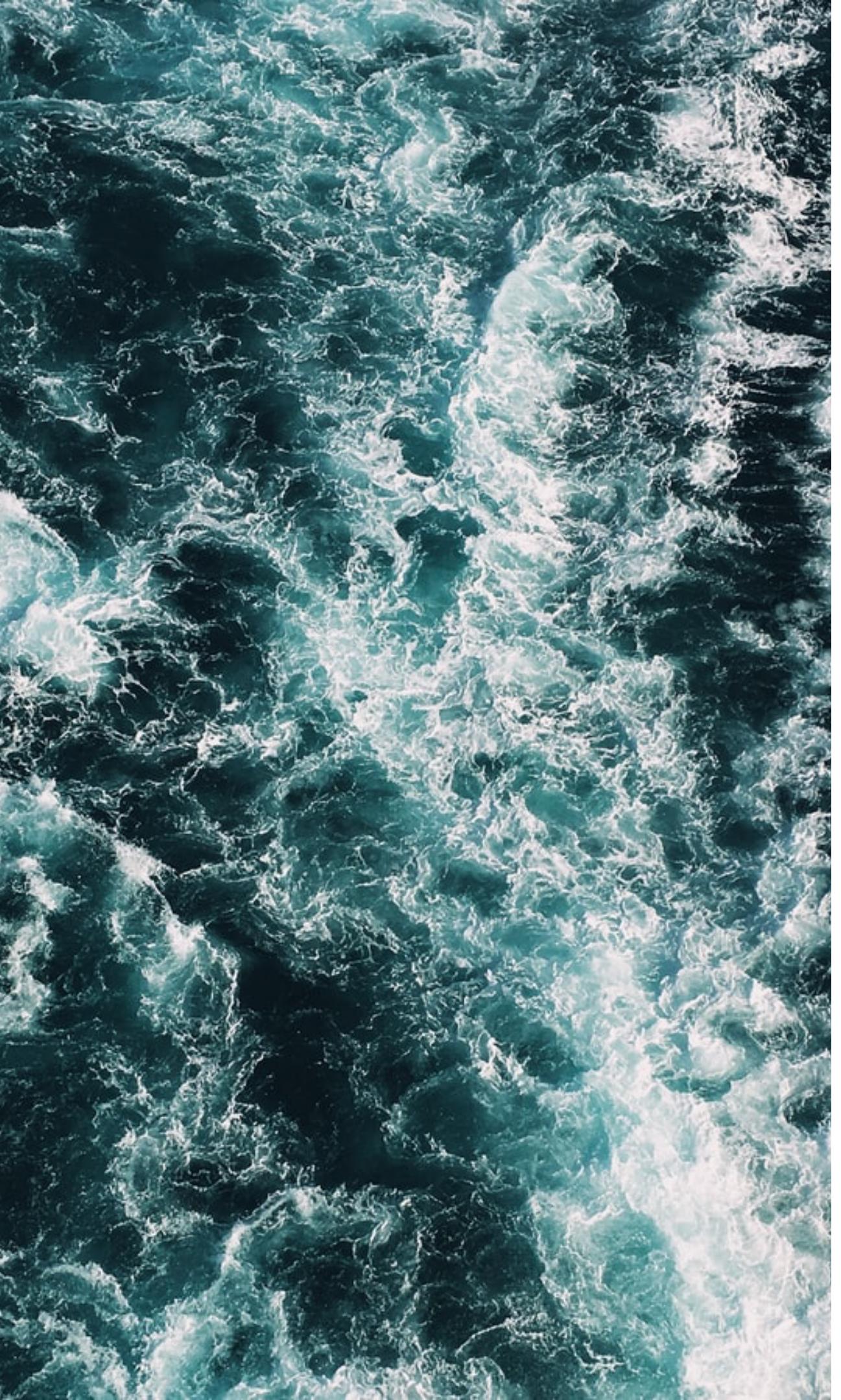
UI

HTML & CSS LECTURE WILL COVER

- How to write basic HTML & CSS

HOW WILL THIS BE USED?

- Frontend web development:
  - devnet, Cypn business, etc.
- UI-focused Kintone customizations



# HTML & CSS

## HTML

```
<div class="text-3xl text-primary dark:text-primary top-1">  
    HTML & CSS  
</div>
```

## CSS

```
div {  
    font-weight:500;  
}
```

# JavaScript (JS) & API

JAVASCRIPT

Web

kintone

JS

API

,

) kintone

...

JAVASCRIPT

A programming language for moving web pages

Kintone customization is written in JS

API

A window prepared for using software functions  
from the outside

Ex) I want to link with kintone and other systems

...

# JavaScript & API

- JavaScript
- API

## JAVASCRIPT & CSS LECTURE WILL COVER

- Writing JavaScript
- How to use the external service API

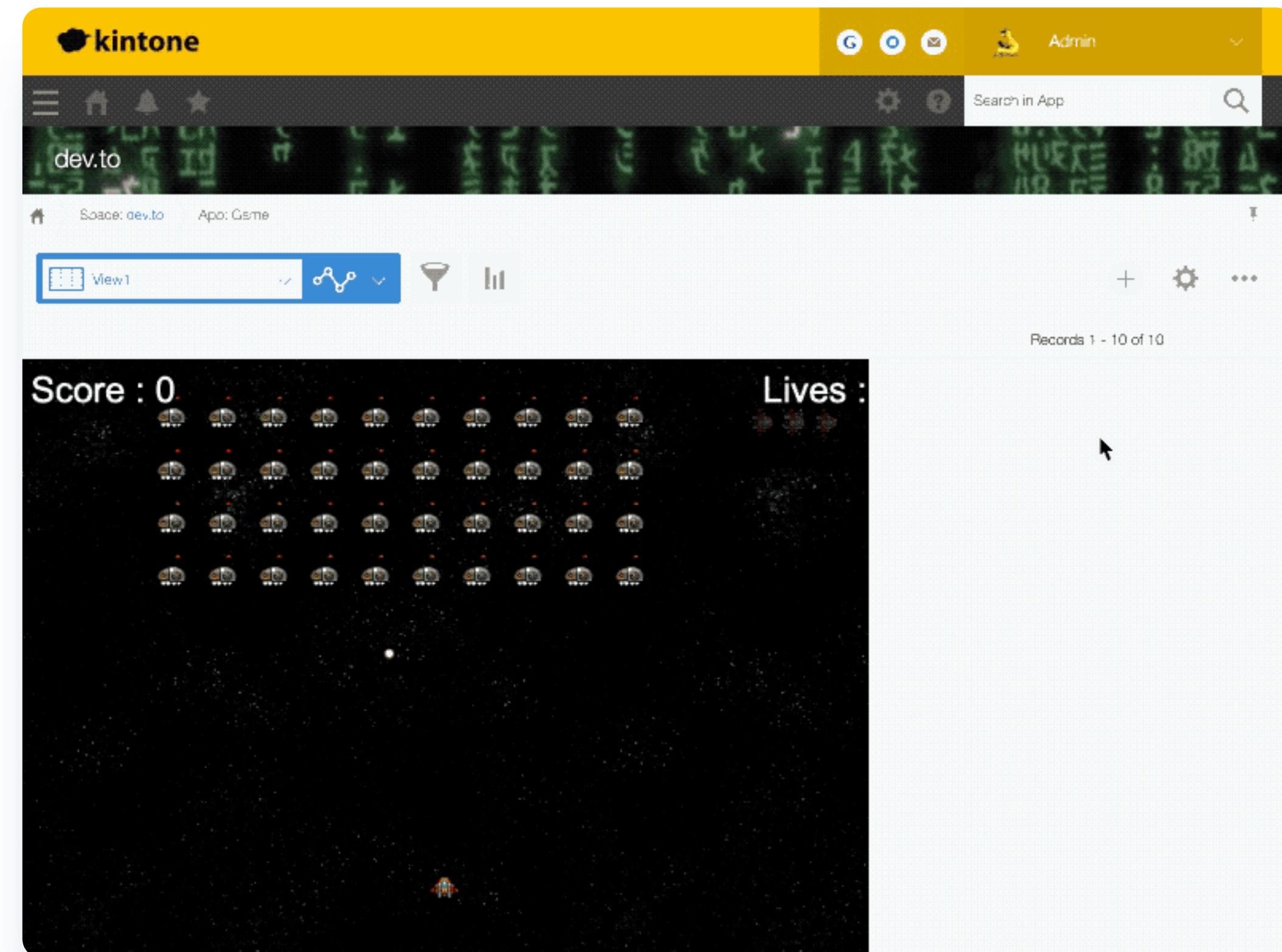
## SC

- kintone
- 
- 

## HOW WILL THIS BE USED?

- Kintone customization, plugin development
- External service cooperation
- Building cool things

# JavaScript & API



# Git & GitHub

GIT

GIT

A version control system that can manage the change history of programs

GITHUB

GITHUB

web

Web service that can host source code

- Git, GitHub
- Git

GIT & GITHUB LECTURE WILL COVER

- What are Git and GitHub?
- How to manage versions using Git

SC

- JavaScript
- 

HOW WILL THIS BE USED?

- Manage source code such as JavaScript
- Team development



# How can Kintone APIs boost teamwork productivity?

[Read more](#)**Quick Start**

New to Kintone APIs? Start here to learn how to customize Kintone with JavaScript!

**API Docs**

Browse through documentation for Kintone's JavaScript API and REST APIs.

**FAQ**

This page introduces frequently asked questions about Kintone customization. More detailed questions can be asked in the forum where developers can get support and advices.

**SDK / Tools**

This section introduces SDKs and tools to help boost your productivity for Kintone customizations.

**Forum**

Receive support and advice from the Kintone developer community.

**Tutorials**

Learn the various ways to customize your Kintone environment by following our step-by-step guides.

**Plug-ins**

Plug-ins are distributable packaged customizations for Kintone Apps. Build your own plug-ins by checking out our samples and the available tools for creating them.



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Any questions? 



# Thank you for your time

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