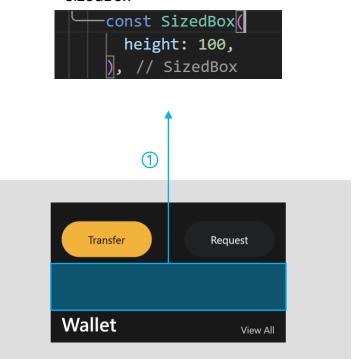


App Front 4주차 강의 정리

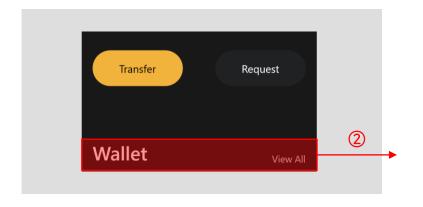
Lookup.KeyValue f.constant(['en =tf.constant([@ .lookup.Static\

SizedBox



```
-Row(
  children: [
   -const Text(
      'Wallet',
      style: TextStyle(
        color: □Colors.white,
        fontSize: 36,
        fontWeight: FontWeight.w600,
      ), // TextStyle
    ), // Text
   -Text(
      style: TextStyle(
        color: □Colors.white.withOpacity(0.8),
        fontSize: 18,
      ), // TextStyle
      Row
```

```
const SizedBox(
  height: 100,
   // SizedBox
```

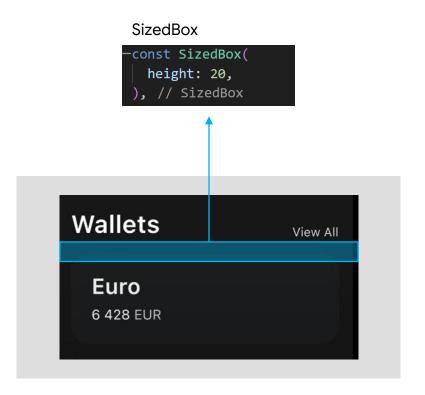


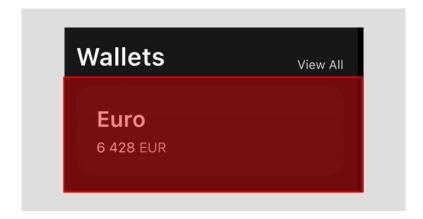
```
-Row(
  children: [
   -const Text(
      'Wallet',
      style: TextStyle(
        color: □Colors.white,
        fontSize: 36,
        fontWeight: FontWeight.w600,
      ), // TextStyle
    ), // Text
   -Text(
      style: TextStyle(
        color: □Colors.white.withOpacity(0.8),
        fontSize: 18,
      ), // TextStyle
      Row
```

Row

```
-Row(
 crossAxisAlignment:
                                가로축을 기준으로 아래로 정렬
 CrossAxisAlignment.end,
 mainAxisAlignment:
                                시작과 끝에 배치
 MainAxisAlignment.spaceBetween,
 children: [
     style: TextStyle(
       color: □Colors.white,
       fontSize: 36,
       fontWeight: FontWeight.w600,
   -Text(
     'View All',
     style: TextStyle(
       color: ■Colors.white.withOpacity(0.8),
       fontSize: 18,
```

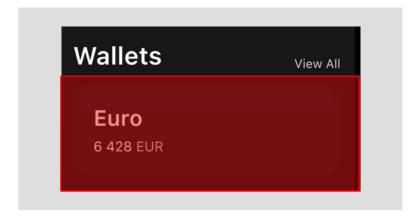






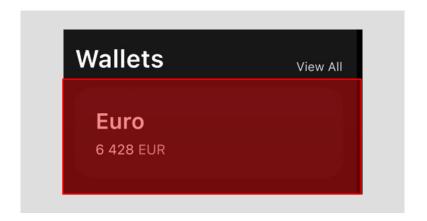
```
-Container(
  decoration: const BoxDecoration(
    color: □Color(0xFF1F2123),
  ), // BoxDecoration
└child: const Row(
    children: [
  Column(
        children: [
         -Text('Euro', style: TextStyle(color: ■Colors.white)),
         -SizedBox(
           height: 10,
          ), // SizedBox
          -Row(
          children: [Text('6428'), Text('EUR')],
```

Container-decoration



```
Container(
 decoration: BoxDecoration(
   color: □const Color(0xFF1F2123),
   borderRadius: BorderRadius.circular(25),
 ), // BoxDecoration
child: const Padding(
   padding: EdgeInsets.all(20),
 -child: Row(
     children: [
    ——Column(
         children:
         -Text(
             'Euro',
             style: TextStyle(
               color: □Colors.white,
               fontSize: 32,
               fontWeight: FontWeight.w600,
           -SizedBox(
             height: 10,
           ), // SizedBox
           └children: [Text('6428'), Text('EUR')],
           ) // Row
 ), // Padding
```

Container-Text, borderRadius, Padding



Container-TextStyle

```
const SizedBox(
 height: 20,
-Container(
 decoration: BoxDecoration(
   color: □const Color(0xFF1F2123),
   borderRadius: BorderRadius.circular(25),
 ), // BoxDecoration
└child: Padding(
   padding: const EdgeInsets.all(30),
 child: Row(
    children: [
    Column(
         crossAxisAlignment: CrossAxisAlignment.start,
         children: [
       const Text(
             style: TextStyle(
              color: □Colors.white,
              fontSize: 32,
              fontWeight: FontWeight.w600,
         —const SizedBox(
             height: 10,
         --Row(
            children: [
           const Text(
                style: TextStyle(
                  color: □Colors.white,
                   fontSize: 20,
              -const SizedBox(width: 5),
                style: TextStyle(
                  color: ■Colors.white.withOpacity(0.8),
```

3.7 Icons and Transforms

```
-const Icon(
  Icons.euro_rounded,
  color: ■ Colors.white,
  size: 98,
  // Icon
```

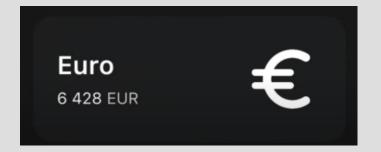




시작과 끝에 배치

```
mainAxisAlignment: MainAxisAlignment.spaceBetween,
children: [
 -Column( // Column ···
 -const Icon(
    Icons.euro_rounded,
    color: □Colors.white,
    size: 98,
```





3.7 Icons and Transforms

```
mainAxisAlignment: MainAxisAlignment.spaceBetween,
children: [
—Column( // Column ···
Transform.scale(
   scale: 5,
  └child: const Icon(
     Icons.euro_rounded,
     color: □Colors.white,
     size: 98,
```

```
Transform.scale(
 scale: 2.2,
└child: Transform.translate(
   offset: const Offset(8, 15),
 child: const Icon(
     Icons.euro_rounded,
     color: □Colors.white,
     size: 88,
), // Transform.translate
, // Transform.scale
```

-Container(clipBehavior: Clip.hardEdge,













```
clipBehavior: Clip.hardEdge,
  decoration: BoxDecoration(
   color: □const Color(0xFF1F2123),
    borderRadius: BorderRadius.circular(25),
  -child: Padding(
    padding: const EdgeInsets.all(30),
   -child: Row(
     mainAxisAlignment: MainAxisAlignment.spaceBetween,
        crossAxisAlignment: CrossAxisAlignment.start,
         children: [
        const Text(
            style: TextStyle(
              color: Colors.white,
              fontSize: 32,
              fontWeight: FontWeight.w600,
           -const SizedBox(
            height: 10,
            children:
           -const Text(
                style: TextStyle(
                 color: Colors.white.
                 fontSize: 20,
            const SizedBox(width: 5),
                style: TextStyle(
                 color: ■Colors.white.withOpacity(0.8),
```

```
Text(
| name,
| style: TextStyle( Use 'const'
| color: ■Colors.white,
| fontSize: 32,
| fontWeight: FontWeight.w600,
| ), // TextStyle
| ), // Text
```

```
Text(
amount,
style: TextStyle( Use
color: ■Colors.white,
fontSize: 20,
), // TextStyle
), // Text
```

```
Child: Icon(
icon,
color: ■Colors.white,
size: 88,
), // Icon
```

```
-const CurrencyCard(
  name: 'Euro',
  code: 'EUR',
  amount: '6 428',
  icon: Icons.euro_rounded,
), // CurrencyCard
-const CurrencyCard(
  name: 'Bitcoin',
  code: 'BTC',
  amount: '9 785',
  icon: Icons.currency_bitcoin,
 , // CurrencyCard
```



```
class CurrencyCard extends StatelessWidget {
  final String name, code, amount;
  final IconData icon;
  final bool isInverted;

const CurrencyCard({
   super.key,
   required this.name,
   required this.code,
   required this.amount,
   required this.icon,
  required this.isInverted,
  });
```

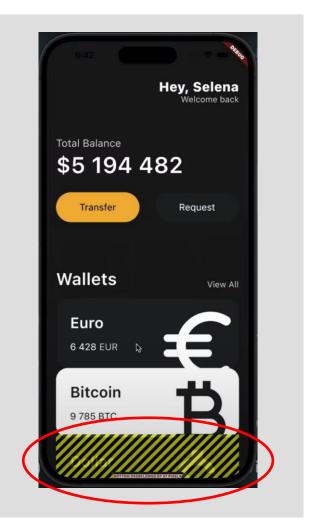
```
final _blackcolor = □const Color(0xFF1F2123);
```

_: private한 변수 (현재 widget 내에서만 사용 가능한 변수

```
isInverted? Colors.white:_blackcolor
```

```
Google Developer Student Clubs
```

```
-const SizedBox(
  height: 20,
), // SizedBox
-const CurrencyCard(
  name: 'Euro',
  code: 'EUR',
  amount: '6 428',
  icon: Icons.euro_rounded,
  isInverted: false,
), // CurrencyCard
-const CurrencyCard(
  name: 'Bitcoin',
  code: 'BTC',
  amount: '9 785',
  icon: Icons.currency bitcoin,
  isInverted: true,
), // CurrencyCard
-const CurrencyCard(
  name: 'Dollar',
  code: 'USD',
  amount: '428',
  icon: Icons.attach_money_outlined,
  isInverted: false,
), // CurrencyCard
```



SingleChildscrollView

```
const CurrencyCard(
  name: 'Euro',
  code: 'EUR',
  amount: '6 428',
  icon: Icons.euro rounded,
  isInverted: false,
), // CurrencyCard
-Transform.translate(
  offset: const Offset(0, -20),
└child: const CurrencyCard(
    name: 'Bitcoin',
    code: 'BTC',
    amount: '9 785',
    icon: Icons.currency bitcoin,
    isInverted: true,
  ), // CurrencyCard
), // Transform.translate
-Transform.translate(
  offset: const Offset(0, -40),
└child: const CurrencyCard(
    name: 'Dollar',
    code: 'USD',
    amount: '428',
    icon: Icons.attach_money_outlined,
    isInverted: false,
  ), // CurrencyCard
), // Transform.translate
```

Offset

or

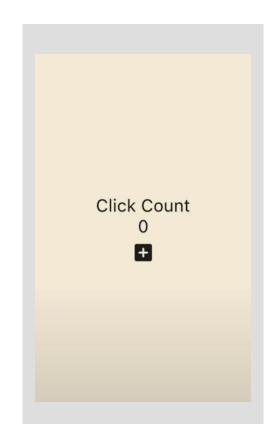
#4 Stateful Widgets

4.0 State

```
class App extends StatefulWidget {
                                                       Widget 그 자체
 @override
 State<App> createState() => _AppState();
                                                       데이터 및 UI
class _Appstate extends State<App> {
 @override
 Widget build(BuildContext context) {
   return MaterialApp(
     home: Scaffold(
       backgroundColor: □const Color(0xFF181818),
       body: Contatiner(),
```

4.0 State

```
oid main() {
 runApp(const App());
lass App extends StatefulWidget {
 @override
 State<App> createState() => _AppState();
class _Appstate extends State<App> {
 int counter = 0;
 void onClicked() {
  counter = counter + 1;
 @override
 Widget build(BuildContext context) {
    home: Scaffold(
      backgroundColor: □const Color(0xFF181818),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
              style: TextStyle(fontSize: 30),
               '$counter',
              style: TextStyle(fontSize: 30),
                 iconSize: 40,
                onPressed: onClicked,
                 icon: Icon(Icons.add_box_rounded))
```



4.1 setState

```
class _Appstate extends State<App> {
  int counter = 0;
  void onClicked() {
   setState(() {
       counter = counter + 1;
```

or

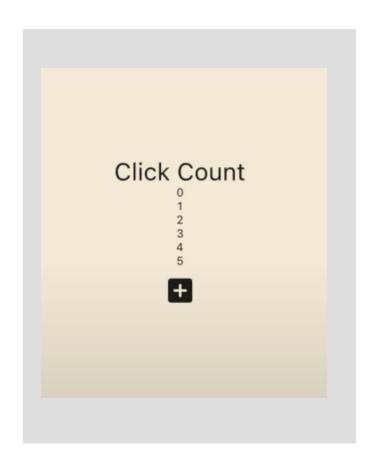
```
void onClicked() {
 counter = counter + 1;
 setState(() { });
```





4.2 Recap

```
class App extends StatefulWidget {
 @override
 State<App> createState() => _AppState();
class _Appstate extends State<App> {
 List<int> numbers = [];
 void onClicked() {
   setState(() {
     numbers.add(numbers.length);
  @override
 Widget build(BuildContext context) {
   return MaterialApp(
     home: Scaffold(
       backgroundColor: □const Color(0xFF181818),
       body: Center(
         child: Column(
           mainAxisAlignment: MainAxisAlignment.center,
           children:
               style: TextStyle(fontSize: 30),
            for(var n in numbers) Text('$n'),
                 iconSize: 40,
                 onPressed: onClicked,
                 icon: Icon(Icons.add_box_rounded))
```





4.3 BuildContext

```
class App extends StatefulWidget {
  @override
 State<App> createState() => _AppState();
class _Appstate extends State<App> {
 @override
 Widget build(BuildContext context)
return MaterialApp(
     theme: ThemeData(
       textTheme: const TextTheme(
         titleLarge: TextStyle(
           color: ■Colors.red,
     home: Scaffold(
       backgroundColor: □const Color(0xFFF4EDDB),
       body: Center(
         child: Column(
           mainAxisAlignment: MainAxisAlignment.center,
           children: const [
             MyLargeTitle(),
```

```
Widget Tree

V □ [root]

App

MaterialApp

Scaffold

Center

MyLargeTitle: "My Large Title"

Text: "My Large Title"
```

4.3 Widget Lifecycle

```
@override
void initState() {
    super.initState();
    print('initState!');
}

@override
Widget build(BuildContext context) {
    print('build!');
    return Text(
        'My Large Title',
        style: TextStyle(
        fontSize: 30,
        color: Theme.of(context).textTheme.titleLarge?.color,
        ),
        );
    }
}
```

```
Restarted application in 225ms. flutter: initState! flutter: build!
```

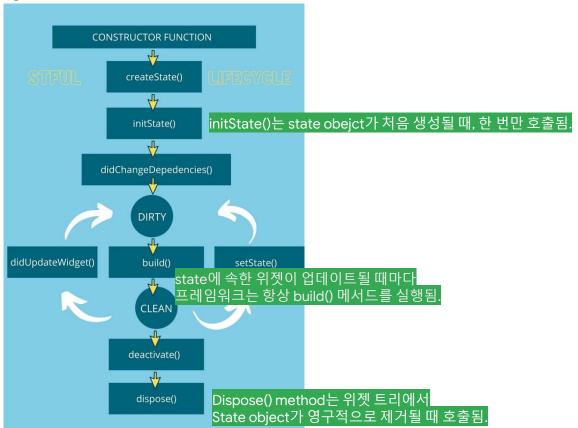
4.3 Widget Lifecycle

```
class _Appstate extends State<App> {
 bool showTitle = true;
 void toggleTitle() {
   setState(() {
     showTitle = !showTitle;
 Widget build(BuildContext context) {
   return MaterialApp(
     theme: ThemeData(
       textTheme: const TextTheme(
         titleLarge: TextStyle(
           color: Colors.red,
     home: Scaffold(
       backgroundColor: _const Color(0xFFF4EDDB),
       body: Center(
         child: Column(
           mainAxisAlignment: MainAxisAlignment.center,
           children:
             showTitle ? MyLargeTitle() : const Text('nothing'),
             IconButton(
               onPressed: toggleTitle,
               icon: const Icon(Icons.remove_red_eye),
```

```
class MyLargeTitle extends StatefulWidget {
   Key? key,
 }) : super(key: key);
 @override
 State<MyLargeTitle> createState() => _MyLargeTitleState();
class _MyLargeTitleState extends State<MyLargeTitle> {
 int count = 0;
 @override
 void initState() {
   super.initState();
   print('initState!');
 @override
 void dispose() {
   super.dispose();
   print("dispose!");
 @override
 Widget build(BuildContext context) {
   print('build!');
   return Text(
      'My Large Title',
     style: TextStyle(
       fontSize: 30,
       color: Theme.of(context).textTheme.titleLarge?.color,
```

```
Restarted application in 225ms.
flutter: initState!
flutter: build!
flutter: dispose!
flutter: initState!
flutter: build!
```

4.3 Widget Lifecycle



Thank You!