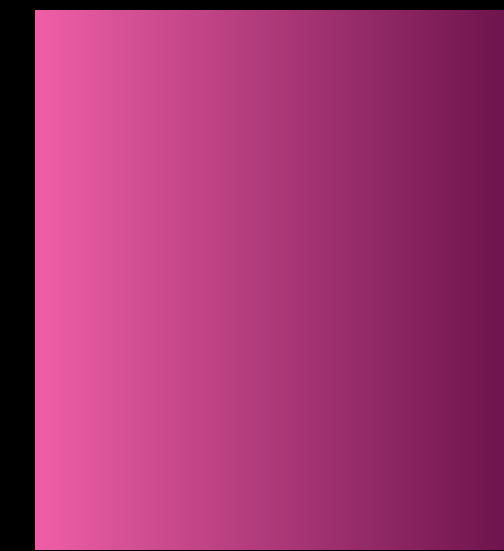
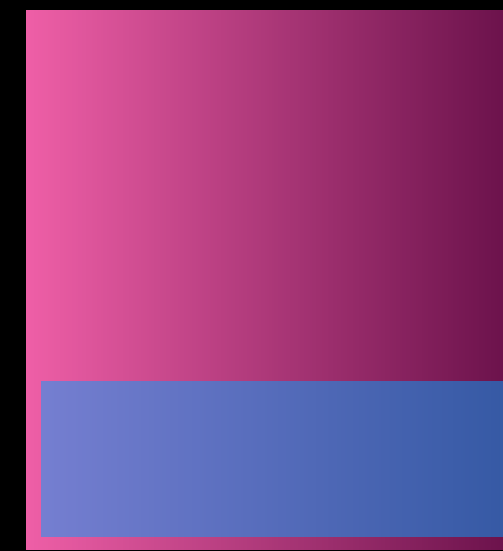
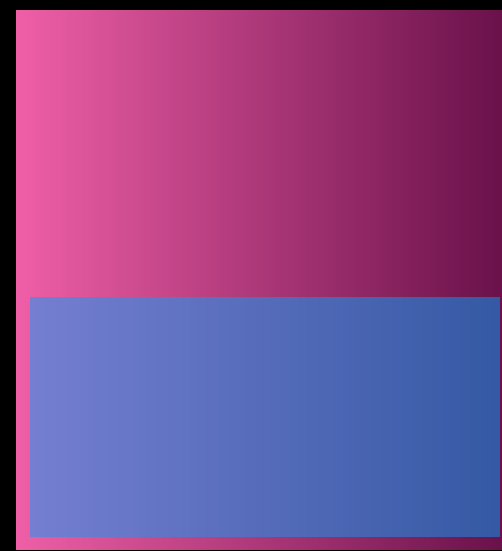
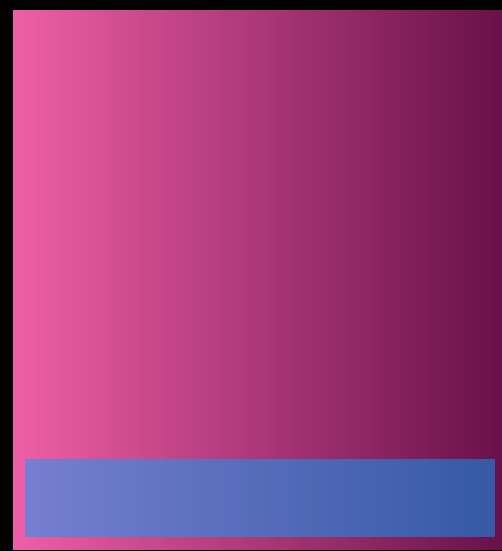
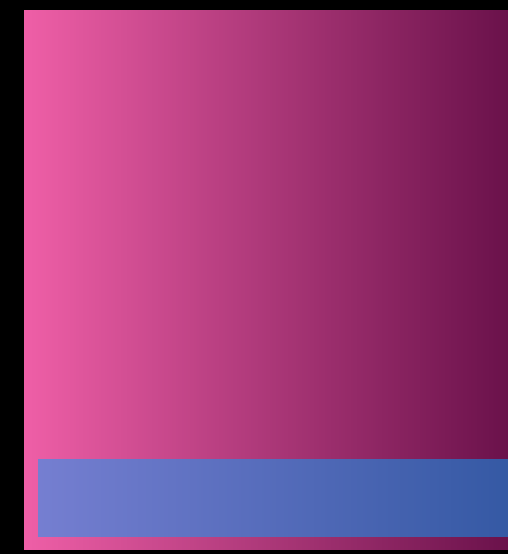
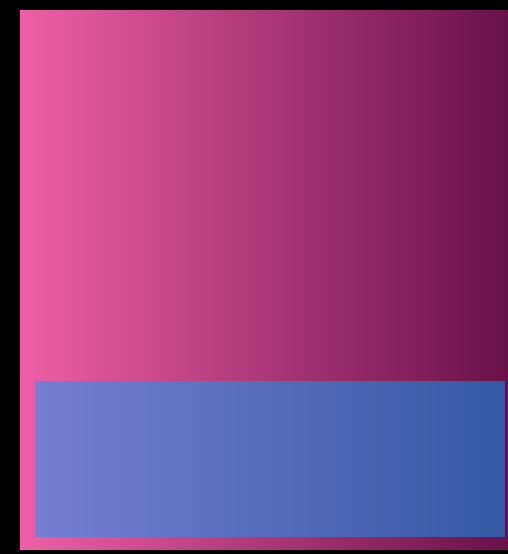
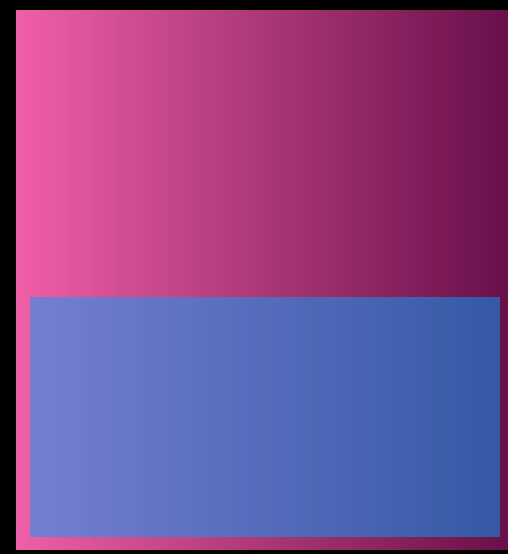
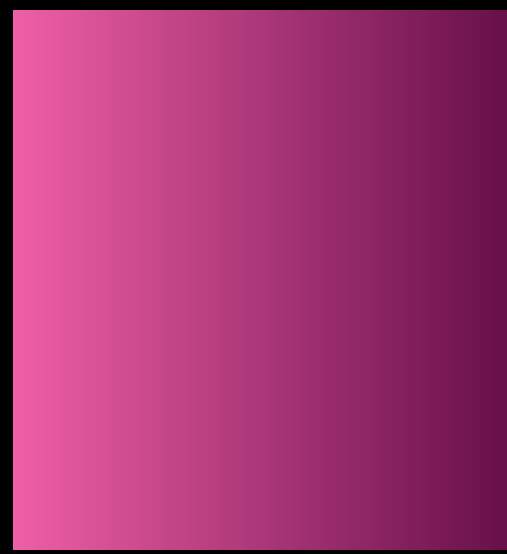


Variables and Assignment: An Introduction

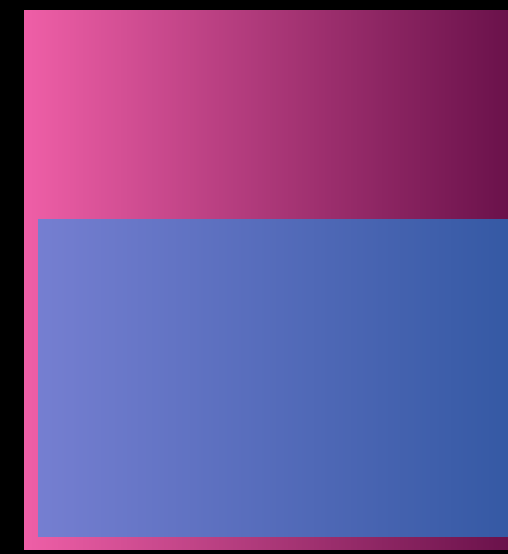
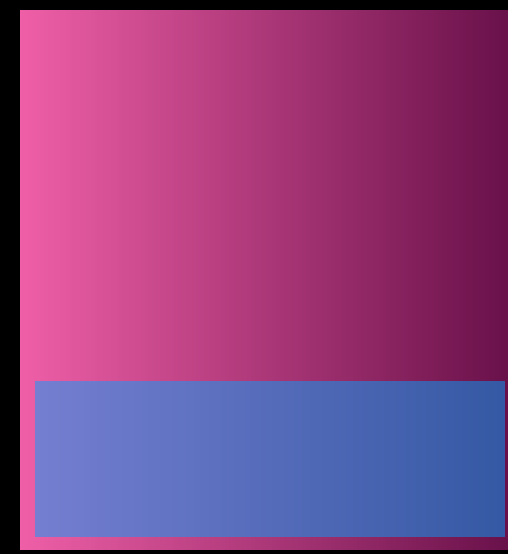
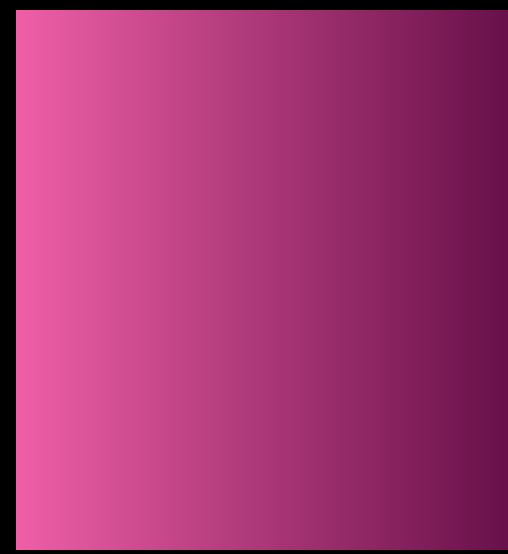
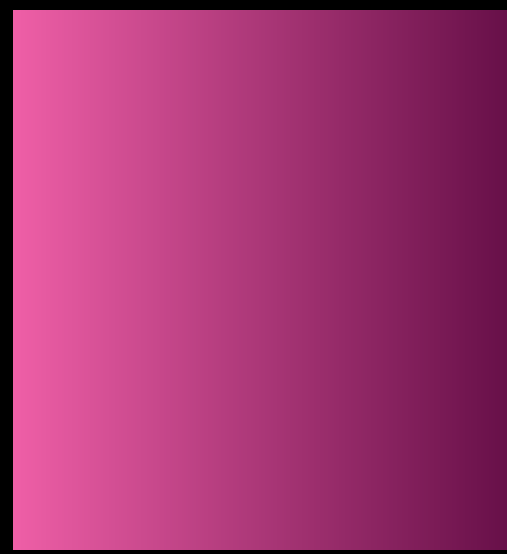
Variables and Assignment: An Introduction



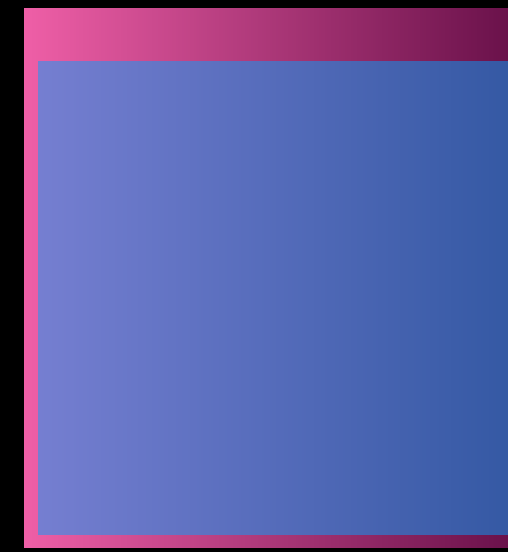
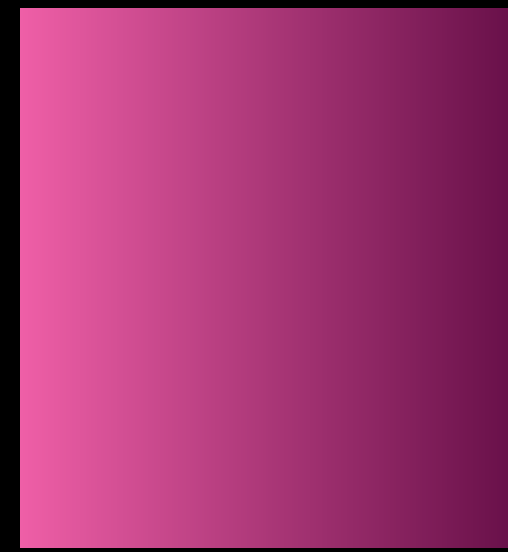
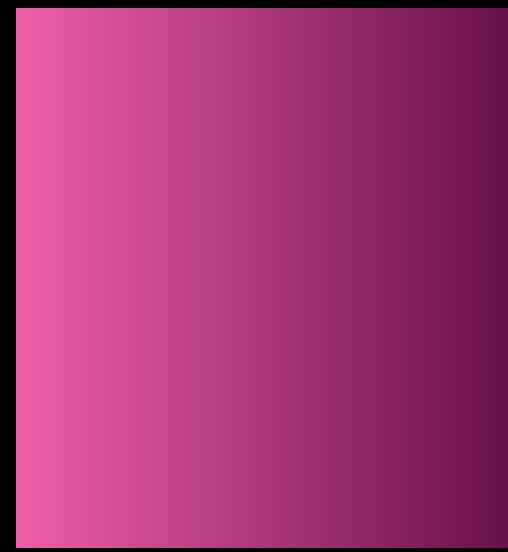
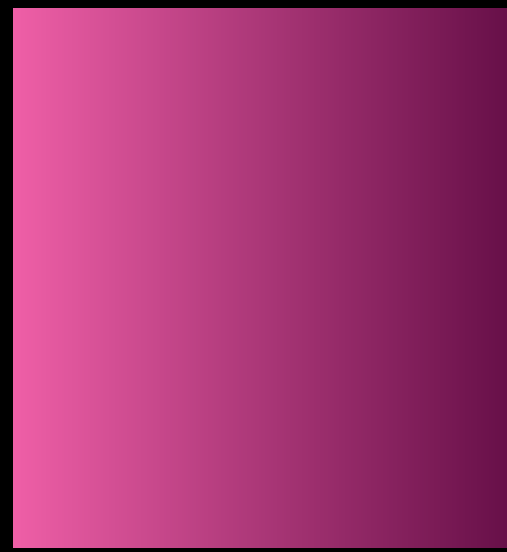
Variables and Assignment: An Introduction



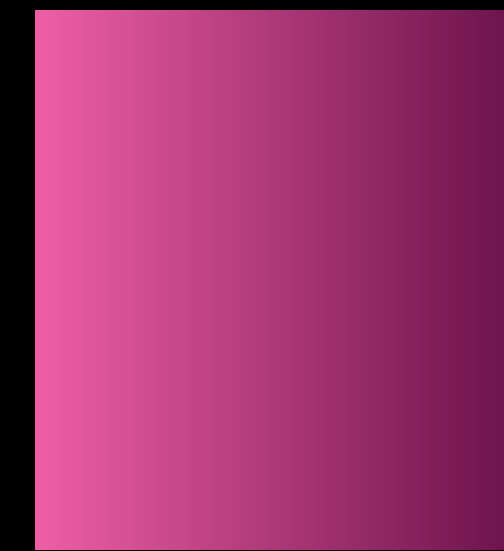
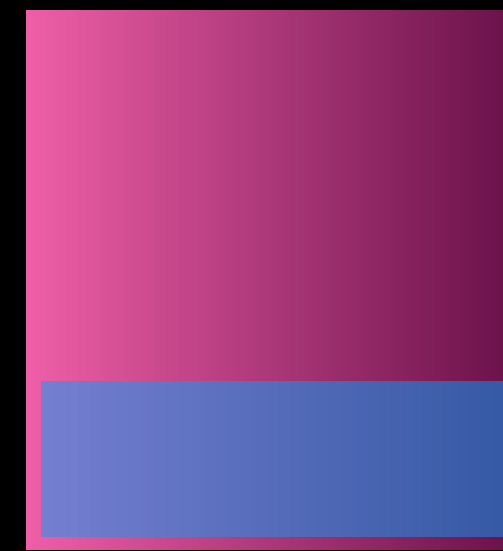
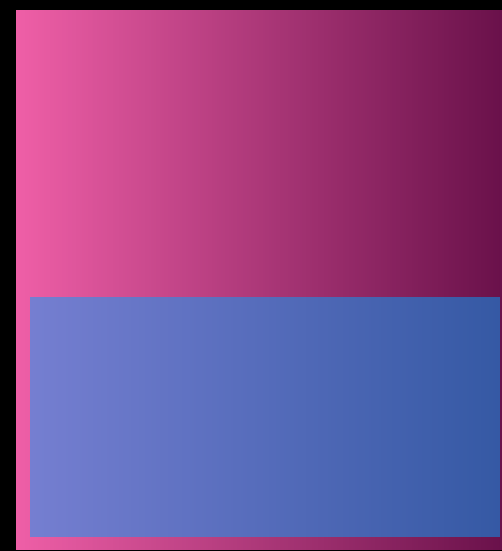
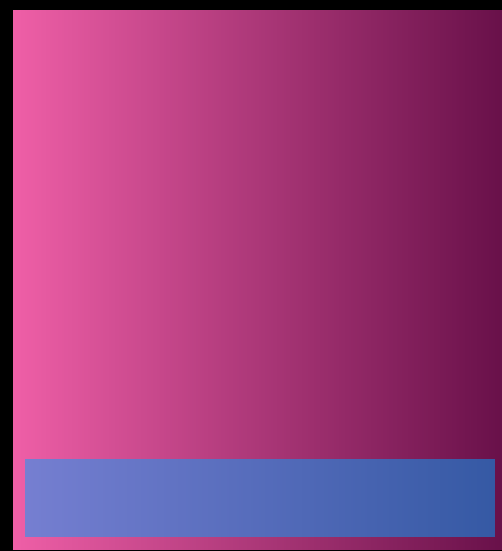
Variables and Assignment: An Introduction



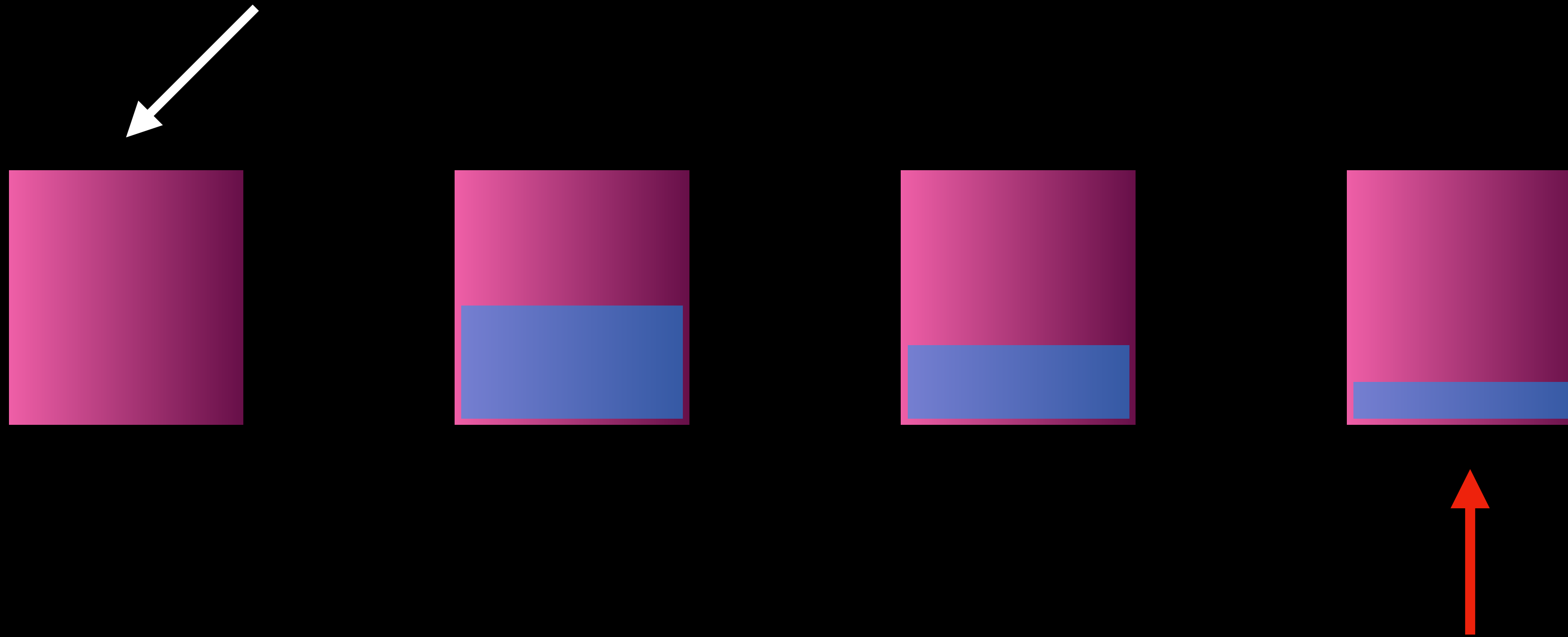
Variables and Assignment: An Introduction



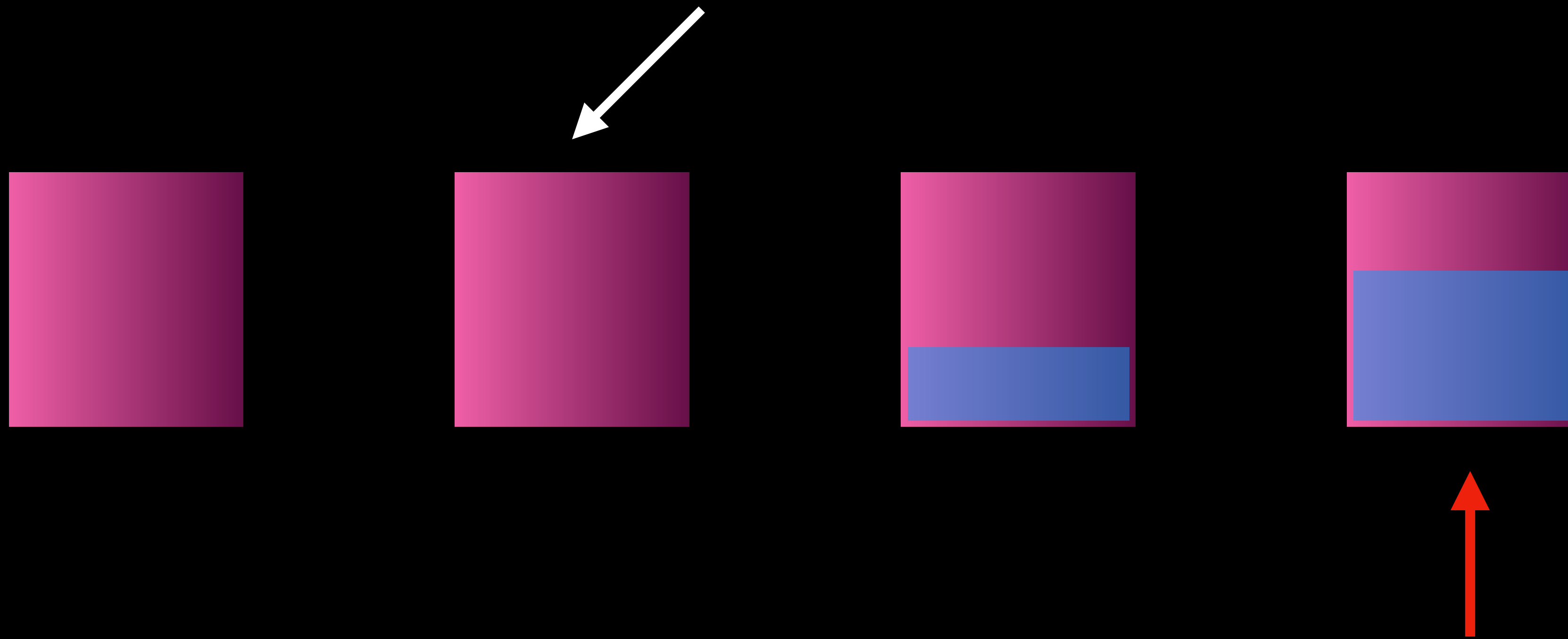
Variables and Assignment: An Introduction



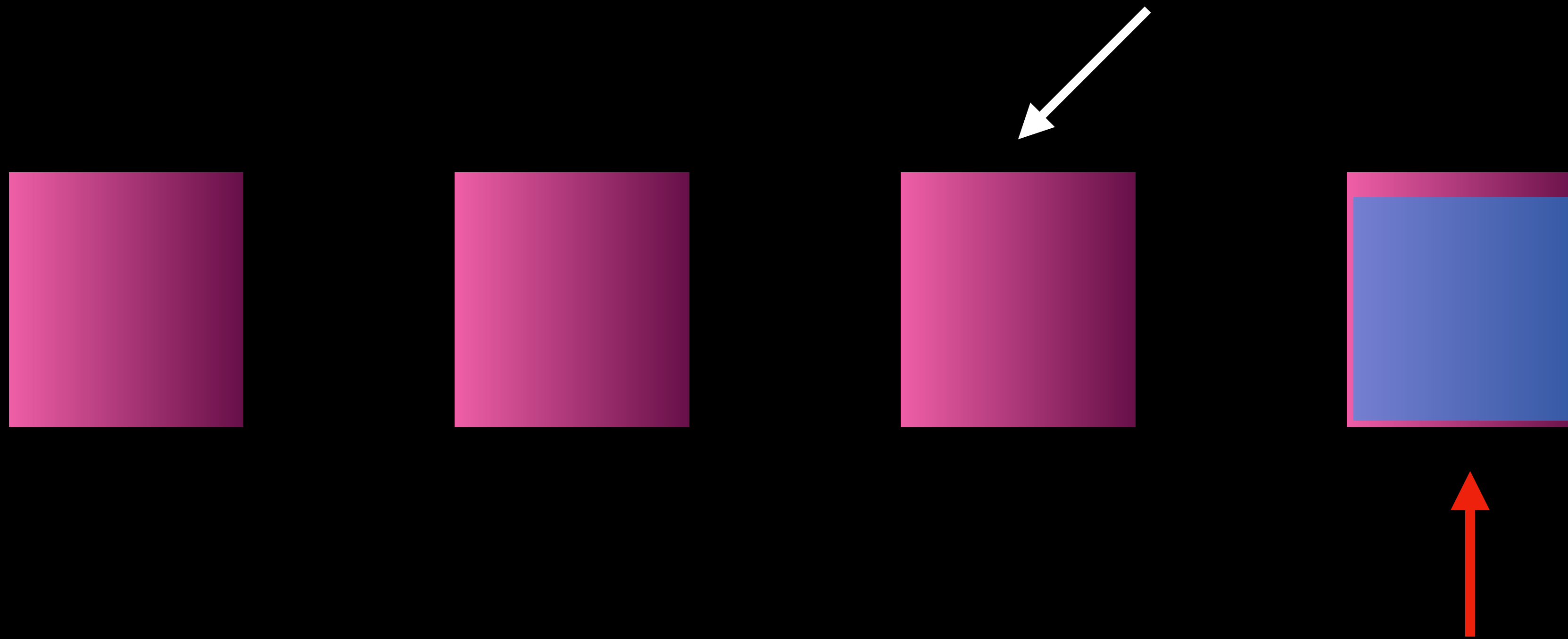
Variables and Assignment: An Introduction



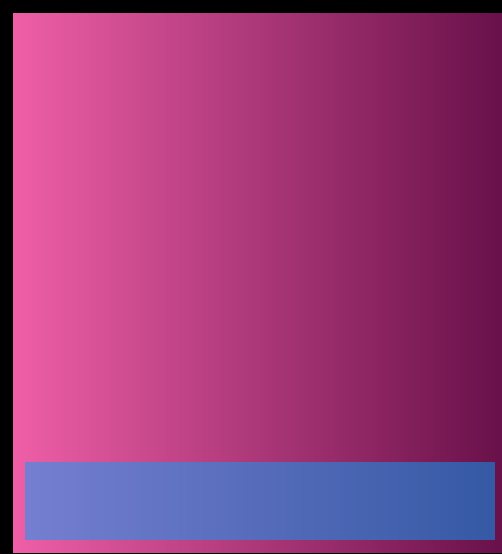
Variables and Assignment: An Introduction



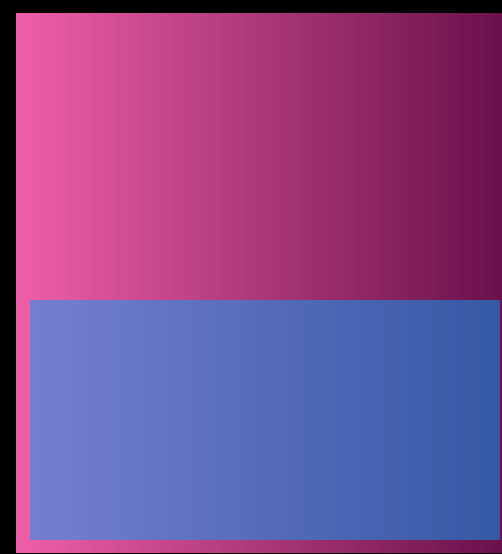
Variables and Assignment: An Introduction



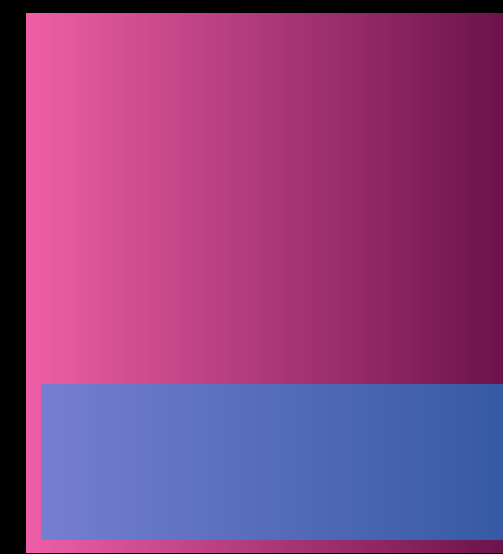
Variables and Assignment: An Introduction



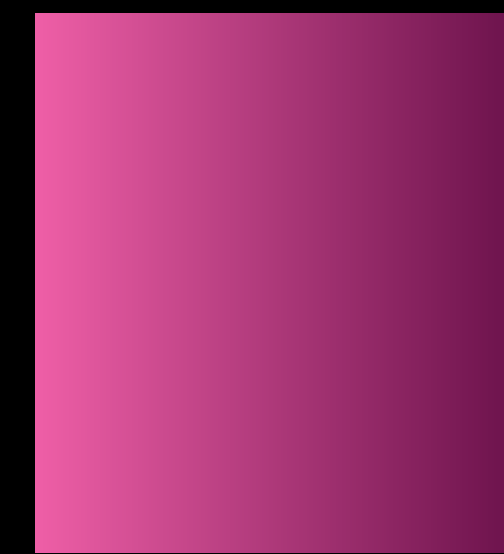
left



middle



right

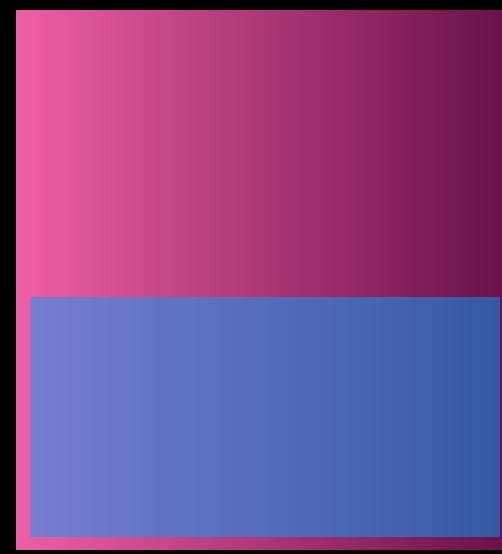


total

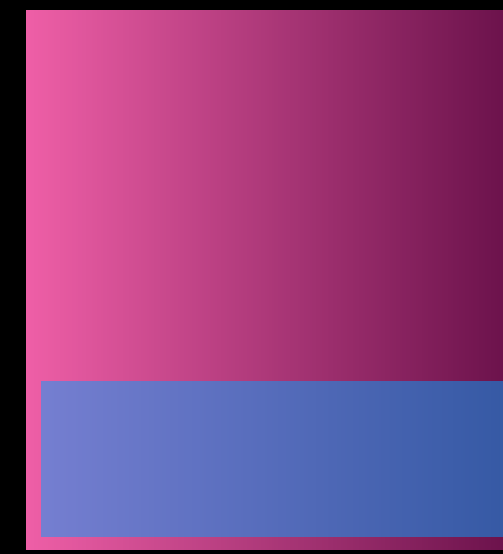
Variables and Assignment: An Introduction



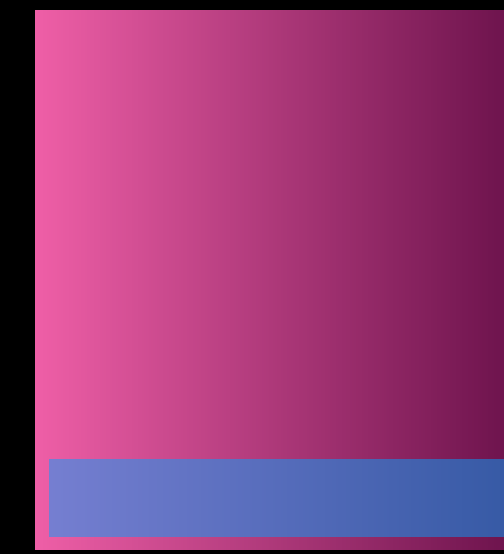
left



middle

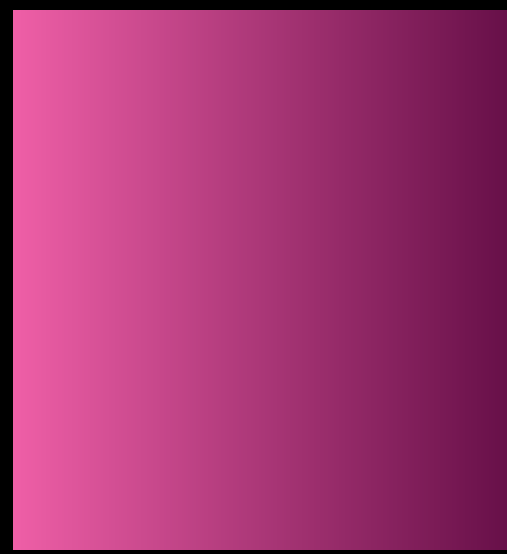


right

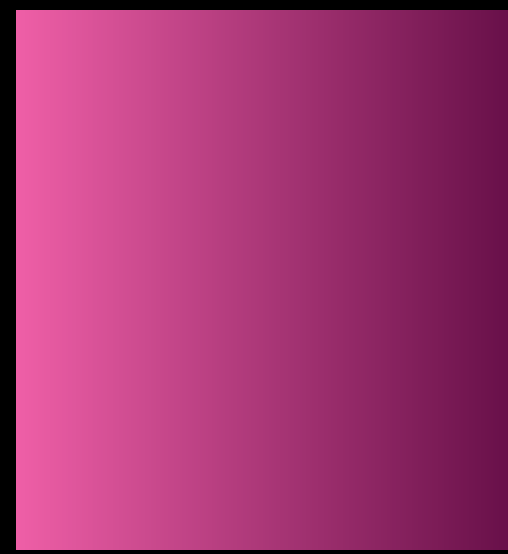


total

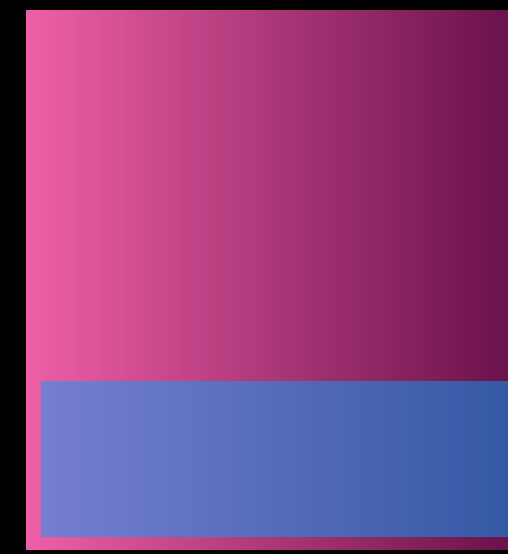
Variables and Assignment: An Introduction



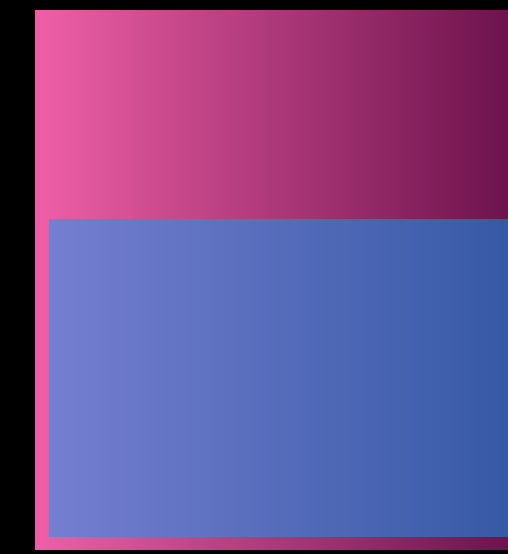
left



middle

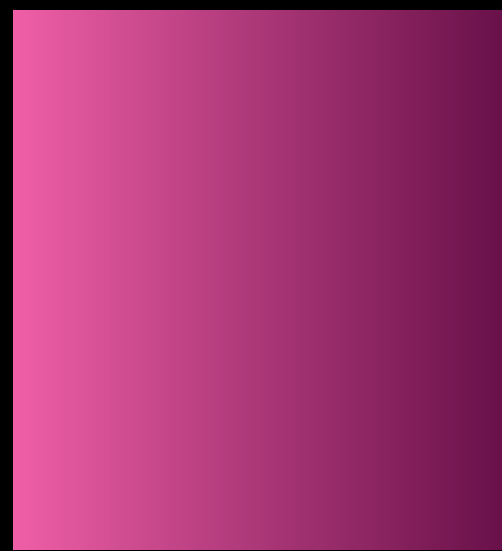


right

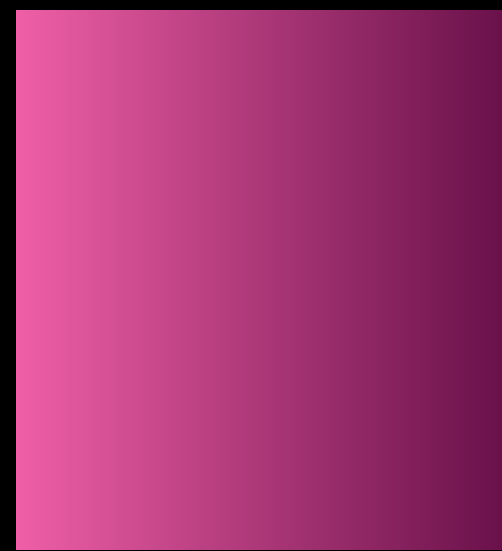


total

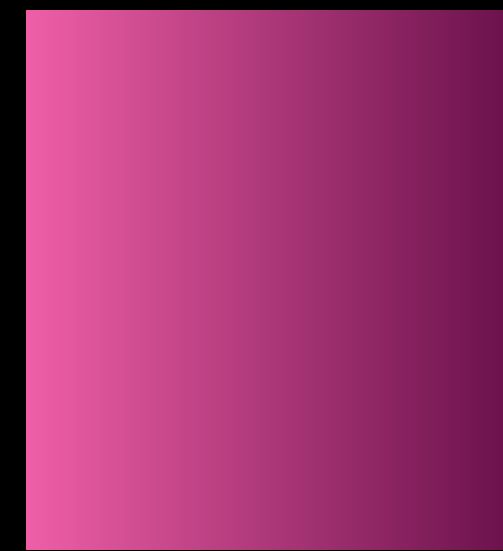
Variables and Assignment: An Introduction



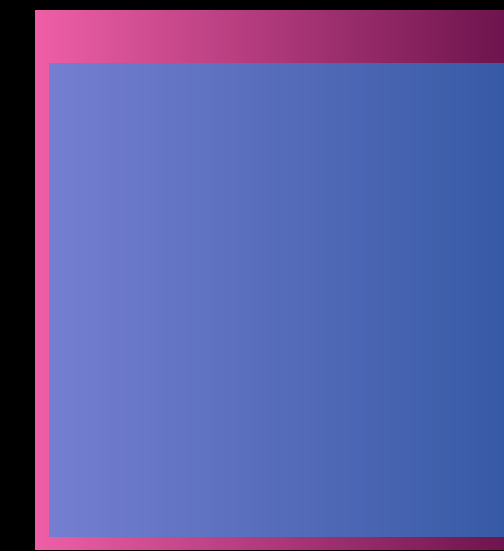
left



middle

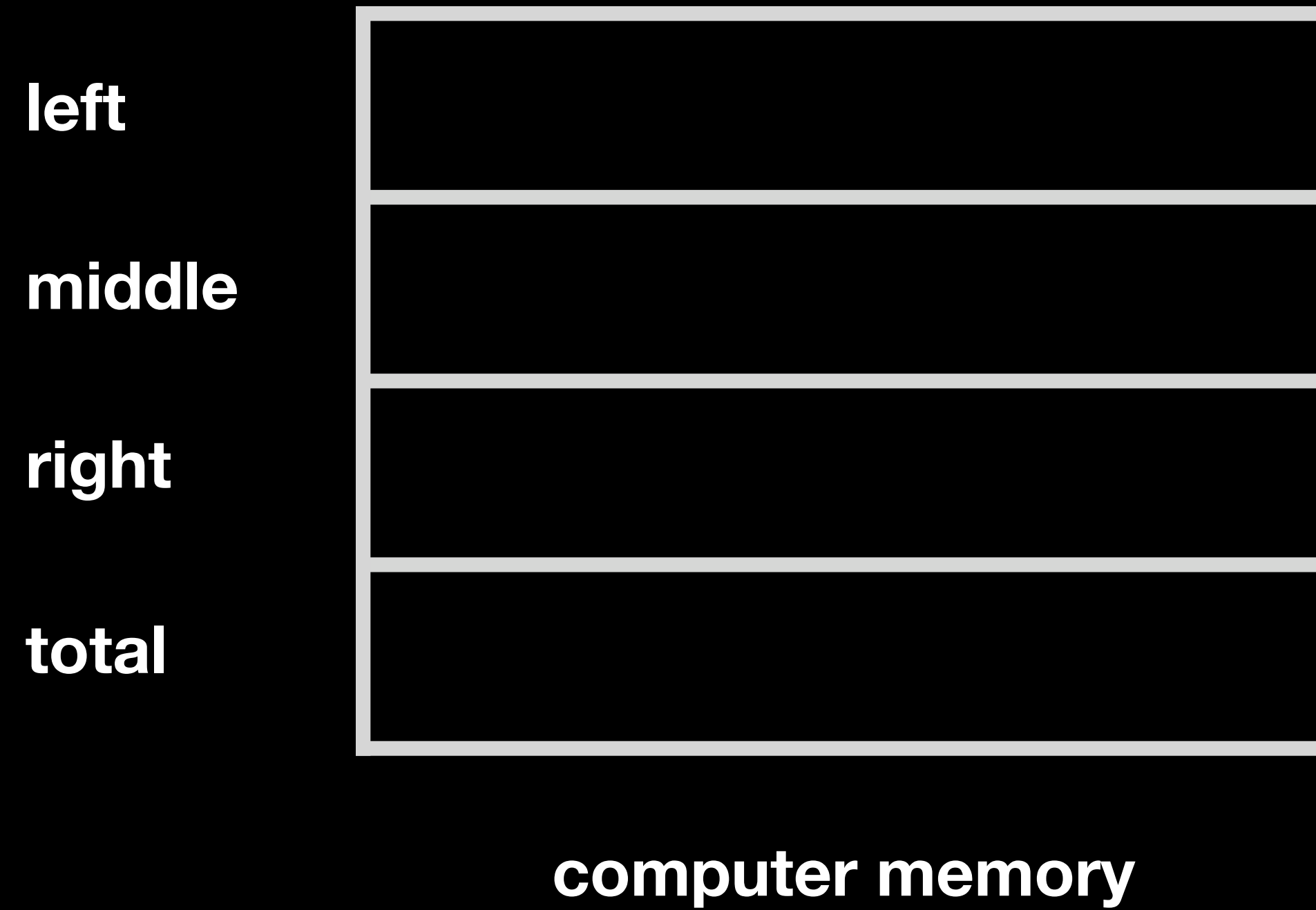


right



total

Variables and Assignment: An Introduction



Variables and Assignment: An Introduction

left	10
middle	20
right	15
total	0

computer memory

Variables and Assignment: An Introduction

Examples of valid names

left

right123

middle_bucket

Total

BUCKET


_total

Variables and Assignment: An Introduction

Examples of valid names

left
right123
middle_bucket
Total
BUCKET
_total

Examples of invalid names

left bucket

space

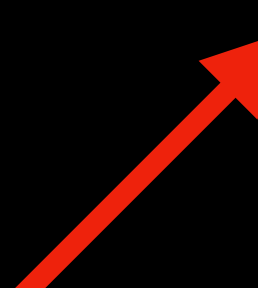
Variables and Assignment: An Introduction

Examples of valid names

left
right123
middle_bucket
Total
BUCKET
_total

Examples of invalid names

left bucket
42right



starts with numbers

Variables and Assignment: An Introduction

Examples of valid names

left
right123
middle_bucket
Total
BUCKET
_total

Examples of invalid names

left bucket
42right
middle-bucket

contains an invalid character



Variables and Assignment: An Introduction

Examples of valid names

left
right123
middle_bucket
Total
BUCKET
_total

Examples of invalid names

left bucket
42right
middle-bucket
#Total

starts with an invalid character



Variables and Assignment: An Introduction

Creating a variable using assignment

Variables and Assignment: An Introduction

Creating a variable using assignment

```
left <- 10
```

Variables and Assignment: An Introduction

Creating a variable using assignment

```
left <- 10
```

```
middle <- 20
```

```
right <- 15
```

Variables and Assignment: An Introduction

Creating a variable using assignment

```
left <- 10  
middle <- 20  
right <- 15
```

Symbol Table

left

middle

right

Variables and Assignment: An Introduction

Creating a variable using assignment

```
left <- 10  
middle <- 20  
right <- 15
```

Symbol Table

left

10

middle

20

right

15

left	10
middle	20
right	15

Variables and Assignment: An Introduction

Creating a variable using assignment

```
left <- 10  
middle <- 20  
right <- 15  
total <- left + middle + right
```

Symbol Table

left

10

middle

20

right

15

total

45

Variables and Assignment: An Introduction

Variable: a variable is a name associated with a location in memory that can hold data or information.

Name: a string of characters that follow a set of rules defined by a programming language.

Assignment: assignment is the operator that associates a name with a value by copying information into the memory location associated with the name.

Transition to AN2