

```
width: 1.8em;
width: 2.7em;
transform: rotate(0.25turn);
transition: 0.2ms all;
width: -webkit-calc(100%/3 - 2*1em - 2*1px);

transition: 0.4s 0.5s height, 0.4s 0.9s -webkit-transform;
transition-timing-function: cubic-bezier(0.23, 1, 0.32, 1);
-webkit-transform: scale(0.9);
-moz-transform: scale(0.9);
transform: scale(0.9);
-webkit-transform-origin-y: 13px;
transform-origin-y: 13px;
}
@media (min-resolution: 96dppx){}
@-webkit-keyframes name-animation, name-animation2{}
@-moz-keyframes name-animation, name-animation2{}
@-o-keyframes name-animation, name-animation2{}
@keyframes name-animation, name-animation2{}

/* next @-rules should be colored
@-media{@font-face{@keyframes {}
@media(min-resolution: 96dppx)
{}
@keyframes newlinetest
{}
from {
background: -webkit-linear-gradient(to top 0, to bottom 25%);
background: -moz-linear-gradient(to top 0, to bottom 25%);
background: -ms-linear-gradient(to top 0, to bottom 25%);
background: linear-gradient(to top 0, to bottom 25%);
}
to {
-webkit-box-shadow: inset 0 1px 2px rgba(20, 60, 75, .7);
-moz-box-shadow: inset 0 1px 2px rgba(20, 60, 75, .7);
box-shadow: inset 0 1px 2px rgba(20, 60, 75, .7);
}
}

width: 1.8em;
width: 2.7em;
transform: rotate(0.25turn);
transition: 0.2ms all;
width: -webkit-calc(100%/3 - 2*1em - 2*1px);

transition: 0.4s 0.5s height, 0.4s 0.9s -webkit-transform;
transition-timing-function: cubic-bezier(0.23, 1, 0.32, 1);
-webkit-transform: scale(0.9);
-moz-transform: scale(0.9);
transform: scale(0.9);
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transform-origin-y: 13px;
}
@media (min-resolution: 96dppx){}
@-webkit-keyframes name-animation, name-animation2{}
@-moz-keyframes name-animation, name-animation2{}
@-o-keyframes name-animation, name-animation2{}
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background: -ms-linear-gradient(to top 0, to bottom 25%);
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-moz-box-shadow: inset 0 1px 2px rgba(20, 60, 75, .7);
box-shadow: inset 0 1px 2px rgba(20, 60, 75, .7);
}
}
```

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LEARNING PLAN

SPRING APACHE KAFKA

Module1: Introduction to Spring and Apache Kafka Integration

1.1. Introduction to Spring and Kafka

- 1.1.1. Overview of Apache Kafka
- 1.1.2. Use Cases for Kafka in Spring Applications

1.2. Setting Up the Development Environment

- 1.2.1. Installing Kafka and Zoo Keeper
- 1.2.2. Configuring Spring Framework

Module 2: Kafka Fundamentals

2.1. Kafka Architecture

- 2.1.1. Topics, Producers, and Consumers
- 2.1.2. Partitions and Brokers

2.2. Kafka Command-Line Tools

- 2.2.1. Kafka CLI for Basic Operations
- 2.2.2. Kafka Configuration Files

Module 3: Spring Kafka Basics

3.1. Spring Kafka Overview

- 3.1.1. Spring Kafka vs. Native Kafka Clients
- 3.1.2. Key Concepts in Spring Kafka

3.2. Configuring Kafka Templates and Producers

- 3.2.1. Creating Kafka Templates
- 3.2.2. Sending Messages with Producers

Module 4: Kafka Consumers with Spring

4.1. Spring Kafka Consumers

- 4.1.1. Consuming Kafka Messages
- 4.1.2. Message Listener Containers

4.2. Error Handling and Offset Management

- 4.2.1. Handling Exceptions in Consumers
- 4.2.2. Managing Offsets and Consumer Groups

Module 5: Spring Kafka Advanced Topics

5.1. Custom Serialization and Deserialization

- 5.1.1. Implementing Custom Serdes
- 5.1.2. JSON and Avro Serialization

5.2. Batch Processing with Kafka

- 5.2.1. Consuming Messages in Batches
- 5.2.2. Configuring Batch Listeners

Module 6: Kafka Streams with Spring

6.1. Introduction to Kafka Streams

- 6.1.1. Stream Processing with Kafka
- 6.1.2. Stateful vs. Stateless Processing

6.2. Building Kafka Stream Applications with Spring

- 6.2.1. Configuring Kafka Streams
- 6.2.2. Stream Processing Topologies

Module 7:Spring Kafka and Microservices

7.1. Microservices and Event-Driven Architecture

- 7.1.1. Event Sourcing and CQRS
- 7.1.2. Decoupling Microservices with Kafka

7.2. Spring Cloud Stream for Kafka

- 7.2.1. Implementing Event-Driven Microservices
- 7.2.2. Spring Cloud Stream Binders

Module 8:Kafka Connect and Integration

8.1. Kafka Connect Overview

- 8.1.1. Connectors and Tasks
- 8.1.2. Source and Sink Connectors

8.2. Configuring Kafka Connect with Spring

- 8.2.1. Creating Connect Configurations
- 8.2.2. Sink Connectors for Data Sync

Module 9: Testing and Debugging Spring Kafka Applications

9.1. Unit Testing with Embedded Kafka

- 9.1.1. Testing Kafka Components
- 9.1.2. Setting Up Embedded Kafka

9.2. Debugging Kafka Consumer Issues

- 9.2.1. Troubleshooting Kafka Consumers
- 9.2.2. Monitoring and Metrics

Module 10: Kafka Security and Scalability

10.1. Securing Kafka with Spring Security

- 10.1.1. Authentication and Authorization
- 10.1.2. SSL Encryption for Kafka

10.2. Scaling Kafka and Spring Applications

- 10.2.1. Horizontal Scaling Strategies
- 10.2.2. Load Balancing Kafka Consumers

Module 11: Real-World Kafka Use Cases

11.1. Log Aggregation with Kafka

- 11.1.1. Centralized Logging with Kafka
- 11.1.2. Log Ingestion and Analysis

11.2. Event Sourcing and Data Pipelines

- 11.2.1. Building Event-Driven Data Pipelines
- 11.2.2. Event Sourcing for Stateful Applications

Module- 12: Best Practices and Optimization

12.1. Kafka Best Practices

- 12.1.1. Design and Configuration Recommendations
- 12.1.2. Handling High Throughput

Module- 13: Final Project and Course Review

13.1. Project Proposal and Planning

- 13.1.1. Designing a Kafka-Integrated Application
- 13.1.2. Project Development Phases

13.2. Implementation and Presentation

- 13.2.1. Building the Kafka-Integrated Project
- 13.2.2. Final Project Presentation



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