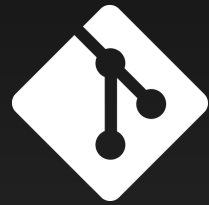


크로마틱 (Chromatic)을 활용한 시각적 회귀 테스트 워크플로우 만들기

실무에 바로 적용하는 프론트엔드 테스트

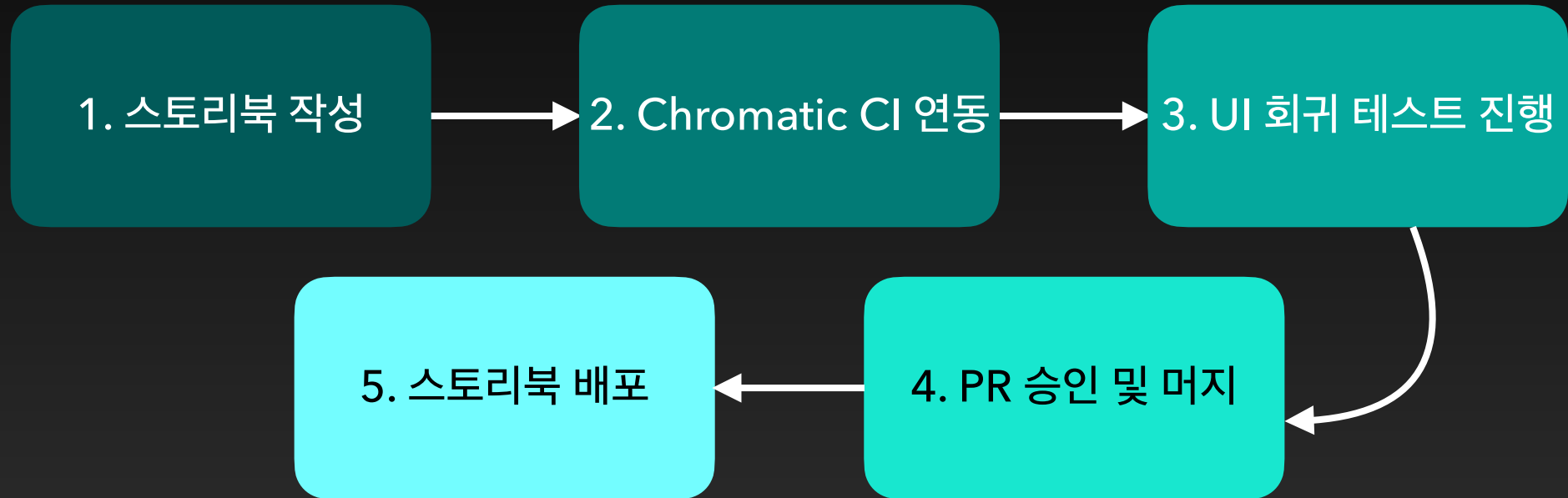
사용 브랜치



shopping-mall-visual-test

```
$ git checkout shopping-mall-visual-test
```

시각적 회귀 테스트 워크플로우



1. 스토리북 작성

CSF 형태로 작성



```
import PageTitle from '@pages/cart/components/PageTitle';
```

```
export default {  
  title: '장바구니/타이틀',  
  component: PageTitle,  
};
```

← default export

```
export const Default = {  
  name: '타이틀',  
};
```

← named export

2. 크로마틱 CI 연동

.github/workflows/chromatic.yml

```
# https://www.chromatic.com/docs/github-actions
name: 'chromatic test'
on: pull_request
jobs:
  chromatic-deployment:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3
        with:
          fetch-depth: 0
      - uses: actions/setup-node@v3
        with:
          node-version: 19
      - name: Install dependencies
        run: npm ci
      - name: Publish to Chromatic
        uses: chromaui/action@v1
        with:
          projectToken: ${ secrets.CHROMATIC_PROJECT_TOKEN }
          onlyChanged: true # https://www.chromatic.com/docs/turbosnap/#turbosnap
```

2. 크로마틱 CI 연동

```
- name: Publish to Chromatic
  uses: chromaui/action@v1
  with:
    projectToken: ${ secrets.CHROMATIC_PROJECT_TOKEN }
    onlyChanged: true # https://www.chromatic.com/docs/turbosnap/#turbosnap
```

✓ GitHub SECRET 등록 방법:

<https://www.chromatic.com/docs/github-actions/>

✓ onlyChanged: turbosnap 기능. 변경점만 테스트하도록 설정

3. UI 테스트 실행

1. 스토리북 작성



2. Chromatic CI 연동

push!


3. UI 회귀 테스트 진행


```
src/pages/cart/components/PageTitle.jsx
@@ -2,7 +2,7 @@ import { Typography } from '@mui/material';
import React from 'react';
const PageTitle = () => (
-   <Typography variant="h4" component="h1" padding="20px 0">
+   <Typography variant="h4" component="h1" padding="20px 0" color="#FFFF00">
    상품 리스트
  </Typography>
);
```

3. UI 테스트 실행

PR 하단 상태 확인





변경 발생!
확인 필요






Some checks were not successful
1 failing, 2 successful, and 2 pending checks

[Hide all checks](#)

✓		chromatic test / chromatic-deployment (pull_request)	Successful...	Details
●		UI Review: test-example-shopping-mall	Pending — Go review the ...	Details
●		UI Tests: test-example-shopping-mall	Pending — 1 change must b...	Details
✓		Storybook Publish: test-example-shopping-mall — 29 stories publi...		Details



This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request


▼


You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

3. UI 테스트 실행

PR 하단 상태 확인





동료 리뷰
개인 확인






Some checks were not successful
1 failing, 2 successful, and 2 pending checks

[Hide all checks](#)

✓		chromatic test / chromatic-deployment (pull_request)	Successful...	Details
●		UI Review: test-example-shopping-mall	Pending — Go review the ...	Details
●		UI Tests: test-example-shopping-mall	Pending — 1 change must b...	Details
✓		Storybook Publish: test-example-shopping-mall — 29 stories publi...		Details



This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request

▼

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

3. UI 테스트 실행

Build 93

Initiated 15m ago

21

Components

29

Stories

29

Stories

1m 10s

Build time

Browsers ?

chore: change color

UI Review

bcd1b2e

chromatic-workflow-test

TESTS

Visual

Interaction

TurboSnap

29

Tests ?

1

Change

Build 90

Ancestor ?

0

Accepted

0

Denied

1

Unreviewed

Verify change

Batch

Refresh

변경점
리스트

변경점 확인

개별 승인

3. UI 테스트 실행

승인 완료

TESTS Visual Interaction TurboSnap

29
Tests ?

1
Change

Build 90
Ancestor ?

1
Accepted

0
Denied

0
Unreviewed

View change

Batch

Changes	Status	Type ?	Actions
타이틀:타이틀	Accepted	Visual	





chromatic test / chromatic-deployment (pull_request) Successful i... [Details](#)

UI Review: test-example-shopping-mall Pending — Go review the n... [Details](#)

Storybook Publish: test-example-shopping-mall — 29 stories publis... [Details](#)

UI Tests: test-example-shopping-mall — 1 change accepted as baseli... [Details](#)

4. PR 승인 및 머지

✓		chromatic test / chromatic-deployment (pull_request)	Successful i...	Details
●		UI Review: test-example-shopping-mall	Pending — Go review the n...	Details
✓		Storybook Publish: test-example-shopping-mall	— 29 stories publis...	Details
✓		UI Tests: test-example-shopping-mall	— 1 change accepted as baseli...	Details

동료 리뷰 클릭

4. PR 승인 및 머지

chore: change color

Unmerged

Merging chromatic-workflow-test into shopping-mall-visual-test • View on GitHub

1

Build

0

Discussions

29

Stories

승인 및 거부

Review now

✓ Approve PR yourself

Assign reviewers

Assign reviewers

Assign yourself

PARTICIPANTS

Activity

Components

Changeset 1

변경점들 구체적으로 스토리 확인

Build 93

3 jobs run

22m ago

bcd1b2e

chore: change color

Complete UI checklist below to pass the GitHub PR check. [Learn more](#)

View PR on GitHub

1 visual change found

Comparing chromatic-workflow-test to shopping-mall-visual-test

[View changeset](#)

상업 리스트			<div>✓ Approve PR yourself</div> <div>or</div> <div>Assign reviewers</div>
--------	--	--	--

변경점 확인

UI tests: Passed

1 change accepted as baseline on the latest build.

작성자의 승인 여부 확인

Go to build 93

4. PR 승인 및 머지

Activity

Components

Changeset 1

PR check


Review now

Comparing stories on **shopping-mall-visual-test** (left) to stories on **chromatic-workflow-test** (right).

☰ 타이틀:타이틀 🔗 1200px

🕒 ✂️ 📄 Diff





상품 리스트	상품 리스트
--------	--------



Comment on this change

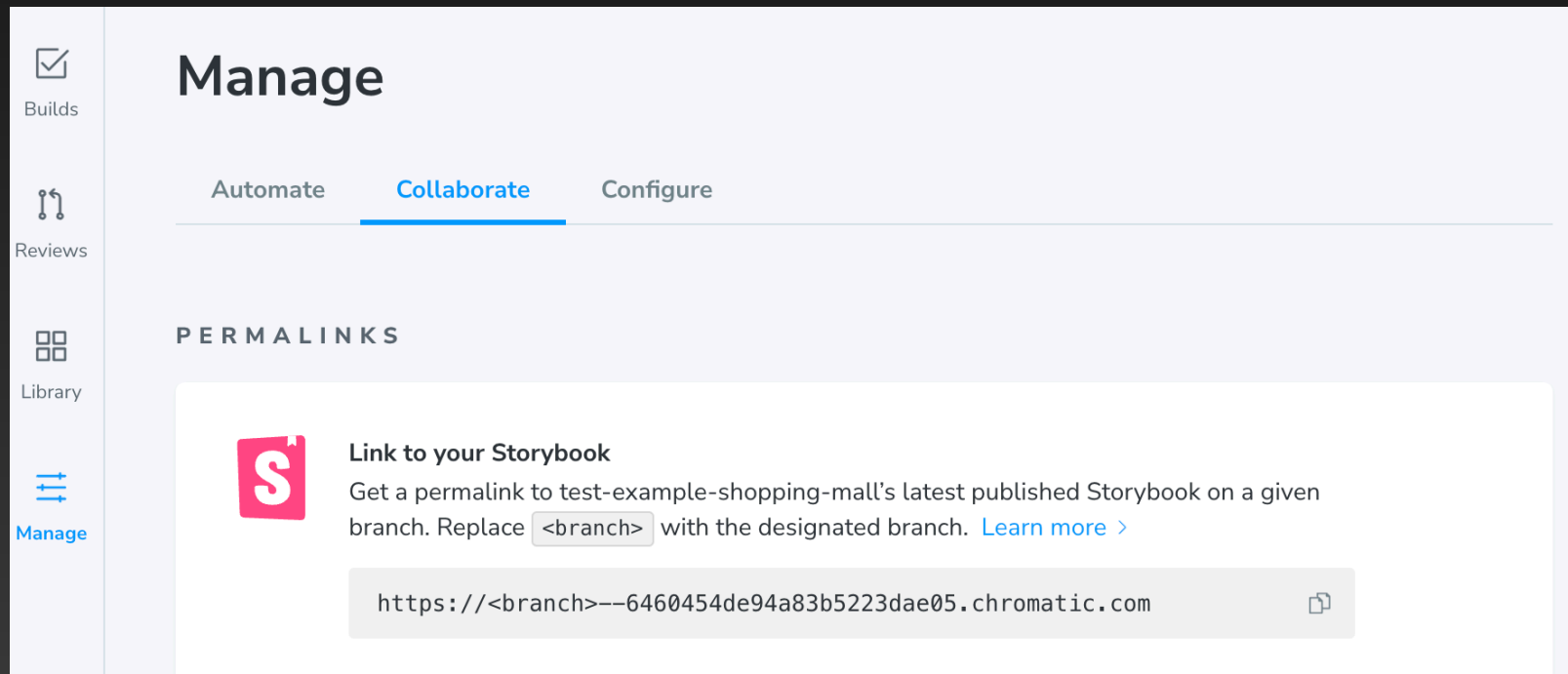
4. PR 승인 및 머지

이 과정을 통해 작성자와 팀원 모두 변경점을 인지하게 됨

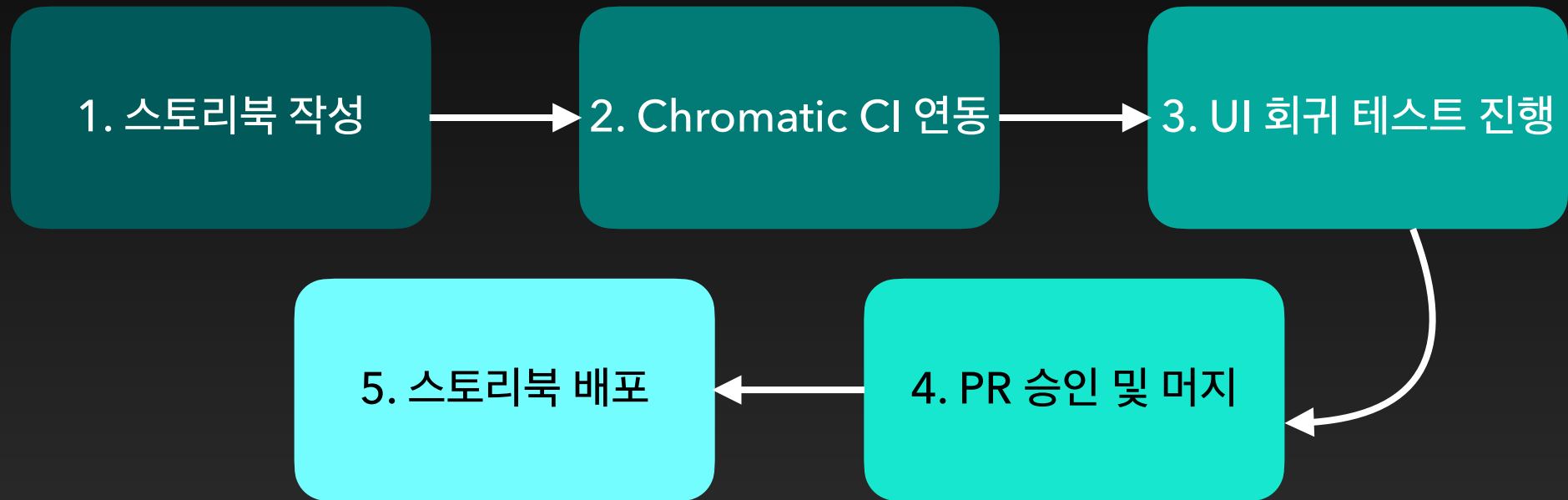
✓		chromatic test / chromatic-deployment (pull_request) ...	Details
✓		Storybook Publish: test-example-shopping-mall — 29 st...	Details
✓		UI Review: test-example-shopping-mall — Approved by h...	Details
✓		UI Tests: test-example-shopping-mall — 1 change accept...	Details

5. 스토리북 배포

Manage > collaborate > PERMALINKS 에서
브랜치 별 스토리북 링크 확인 가능



시각적 회귀 테스트 워크플로우



- ✓ 시각적 회귀 테스트 자동화를 통한 예상치 못한 UI 변경사항 빠르게 검출
- ✓ 편하고 빠른 팀원들의 리뷰
- ✓ 자동화된 스토리북 배포를 통한 생산성 향상

정리

시각적 회귀 테스트 워크플로우

1. 스토리북 작성
2. Chromatic CI 연동
3. UI 회귀 테스트 실행
4. PR 승인 및 머지
5. 스토리북 배포

자동화된 크로마틱 워크플로우의 장점

- 편리한 스토리북 연동
- 자동화된 회귀 테스트로 예상치 못한 UI 변화를 빠르게 검출
- 팀원들이 크로마틱에서 어떤 스토리가 변경되었는지 스냅샷을 보고 빠르게 파악할 수 있음
- 별도 환경 구성 없이 크로마틱 배포 사이트를 통해 최신 버전의 스토리를 확인할 수 있음