

Creating Snapshots of your Work

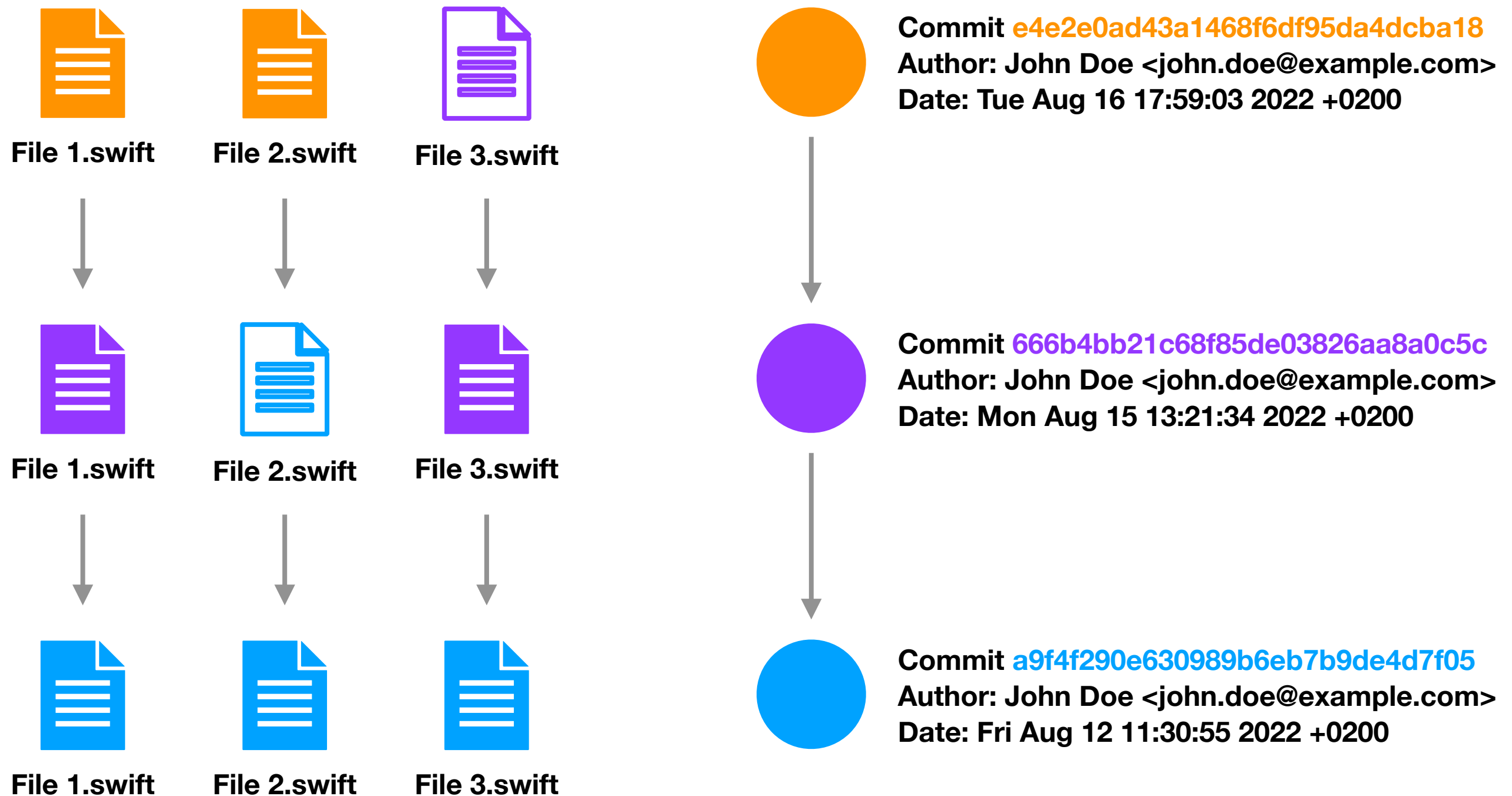
Crafting Git commits in the staging area

Git maintains integrity through hashing

`print("Hello, world!")` $\xrightarrow{\text{SHA-1}}$ `fdb57365c00e7a5cc6521098d8e732e3075f01f6`

`print("Hello, World!")` $\xrightarrow{\text{SHA-1}}$ `c7f7c502d3829603581008641cc1fddd0b020b47`

Git stores full snapshots of your files



The staging area

Git repository

Staging area

Working copy

a9f4f290e630989b6eb7b9de4d7f05



File 1.swift



File 2.swift

Creating Snapshots of your Work: *Crafting Git commits in the staging area*

The staging area

Git repository

Staging area

Working copy



File 1.swift



File 2.swift

a9f4f290e630989b6eb7b9de4d7f05



File 1.swift



File 2.swift

Creating Snapshots of your Work: *Crafting Git commits in the staging area*

The staging area

Git repository

Staging area

Working copy



File 1.swift



File 2.swift



File 3.swift

a9f4f290e630989b6eb7b9de4d7f05



File 1.swift



File 2.swift

The staging area

Git repository

Staging area

Working copy

666b4bb21c68f85de03826aa8a0c5c



File 1.swift



a9f4f290e630989b6eb7b9de4d7f05



File 1.swift



File 2.swift



File 2.swift



File 3.swift



File 1.swift



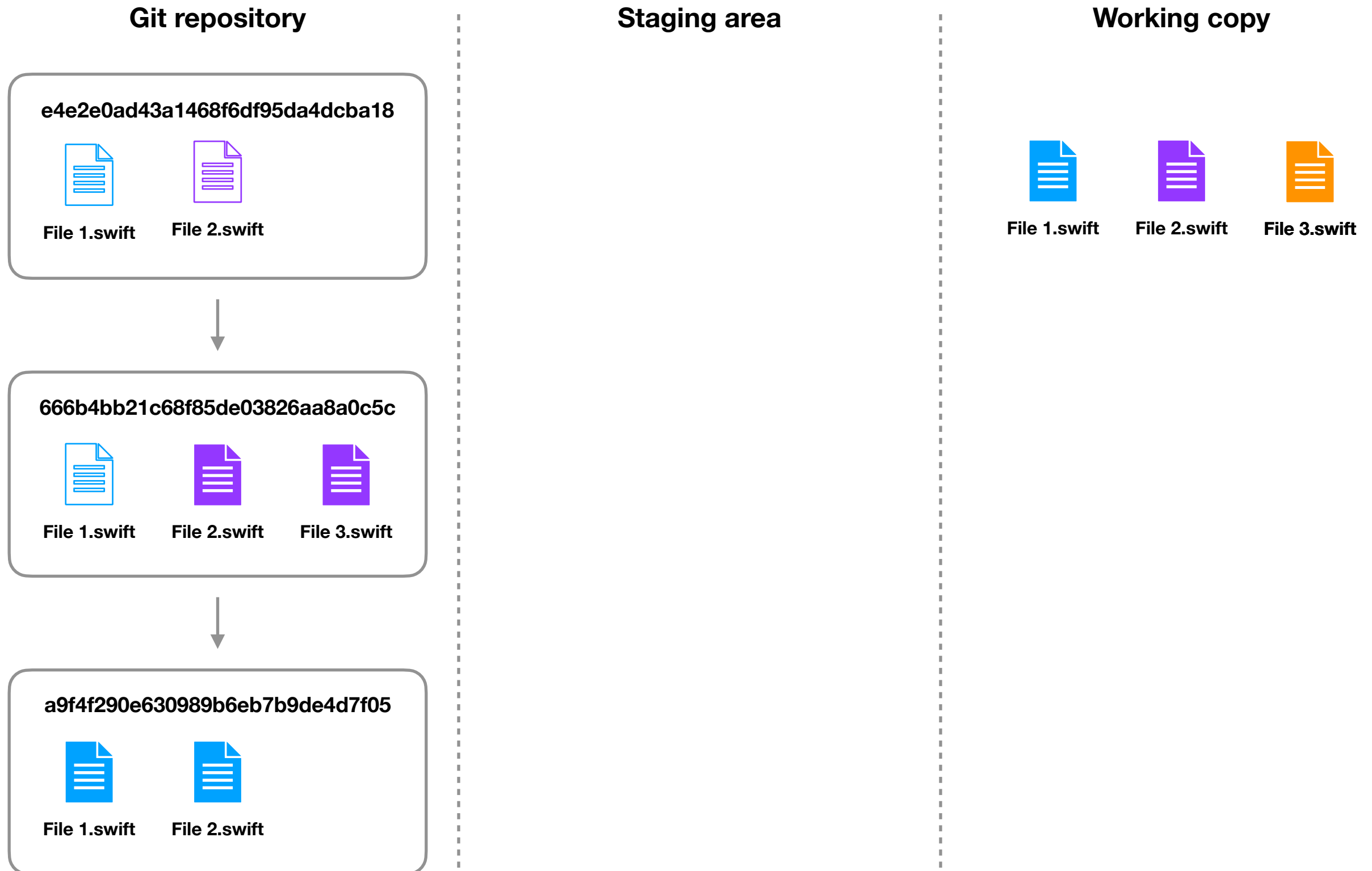
File 2.swift



File 3.swift

Creating Snapshots of your Work: *Crafting Git commits in the staging area*

The staging area



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