

10-5. 实现函数组件渲染的源码

资源

1. 函数组件

render 阶段

beginWork

创建 Fiber

ReactFiber.ts

```
TypeScript
// 根据 TypeAndProps 创建fiber
export function createFiberFromTypeAndProps(
  type: any,
  key: null | string,
  pendingProps: any
) {
  let fiberTag: WorkTag = IndeterminateComponent;
  if (isFn(type)) {
   // 函数组件、类组件
    if (type.prototype.isReactComponent) {
      fiberTag = ClassComponent;
   } else {
      fiberTag = FunctionComponent;
  } else if (isStr(type)) {
   // 原生标签
   fiberTag = HostComponent;
  } else if (type === REACT_FRAGMENT_TYPE) {
   fiberTag = Fragment;
  }
  const fiber = createFiber(fiberTag, pendingProps, key);
  fiber.elementType = type;
  fiber.type = type;
  return fiber;
}
```

ReactFiberBeginWork.ts

```
TypeScript
function updateFunctionComponent(current: Fiber | null, workInProgress
  const { type, pendingProps } = workInProgress;
  const children = type(pendingProps);
  reconcileChildren(current, workInProgress, children);
```

```
return workInProgress.child;
}
```

completeWork

