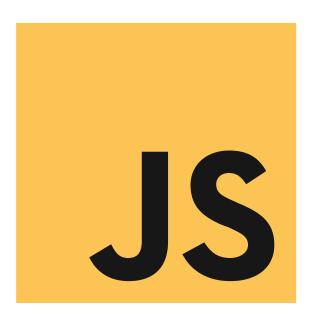
Creating a JavaScript Action

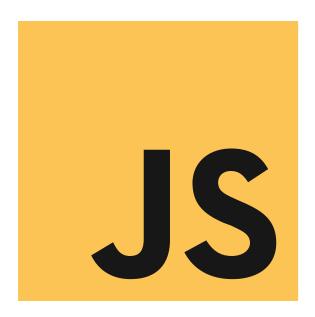


Enrico Campidoglio

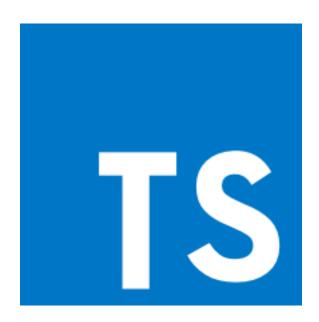
@ecampidoglio megakemp.com



JavaScript Actions



JavaScript Actions



TypeScript Actions

- Static typing
- + Classes
- + Interfaces



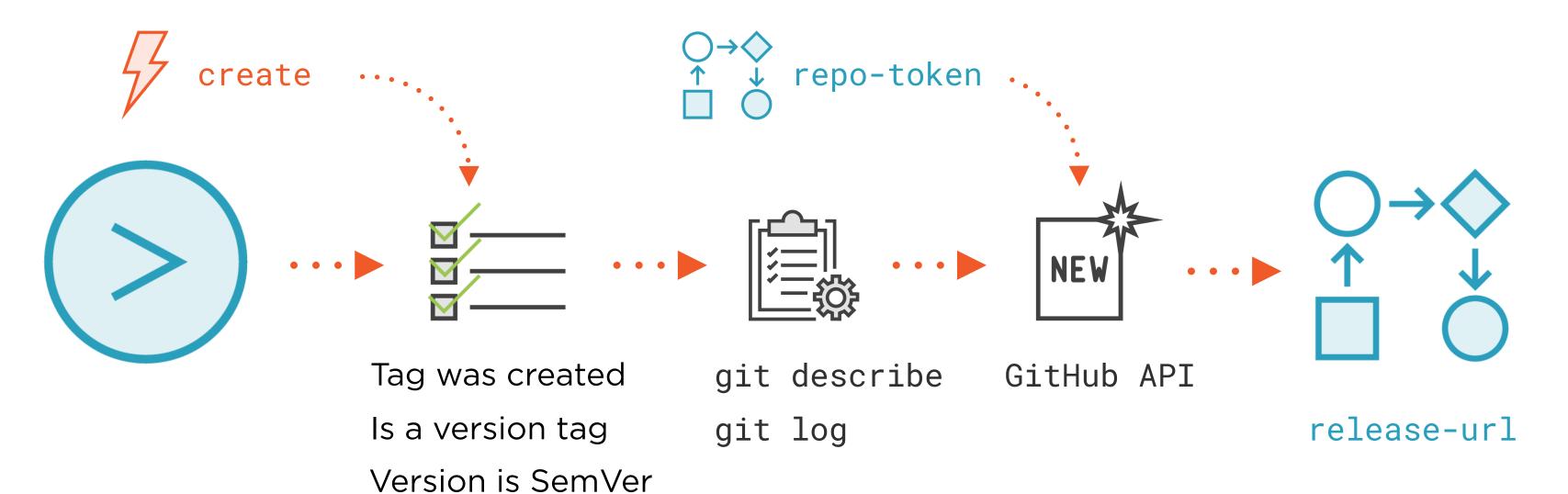
TypeScript Actions

Introducing the Auto Release Draft Action

Auto Release Draft

An action that creates a GitHub release draft based on a newly created version tag, complete with change log.

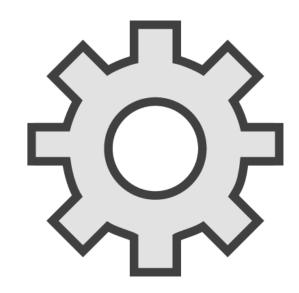




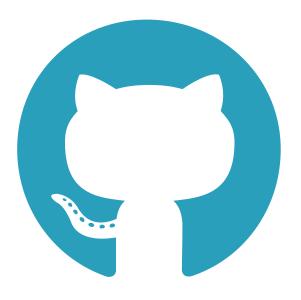
What You Will Learn



Parsing event data



Running CLI programs



Invoking the GitHub API

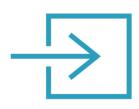


Error handling and troubleshooting

Other Things You Will Learn



Defining and reading input parameters



Returning and consuming output parameters



Sending information to the build log



Verifying that the action works with automated tests

Setting up the Environment

Demo

Create a repository from a template

- actions/typescript-action

Look at the structure of an action project

- The metadata file
- The dependencies
- The configuration files

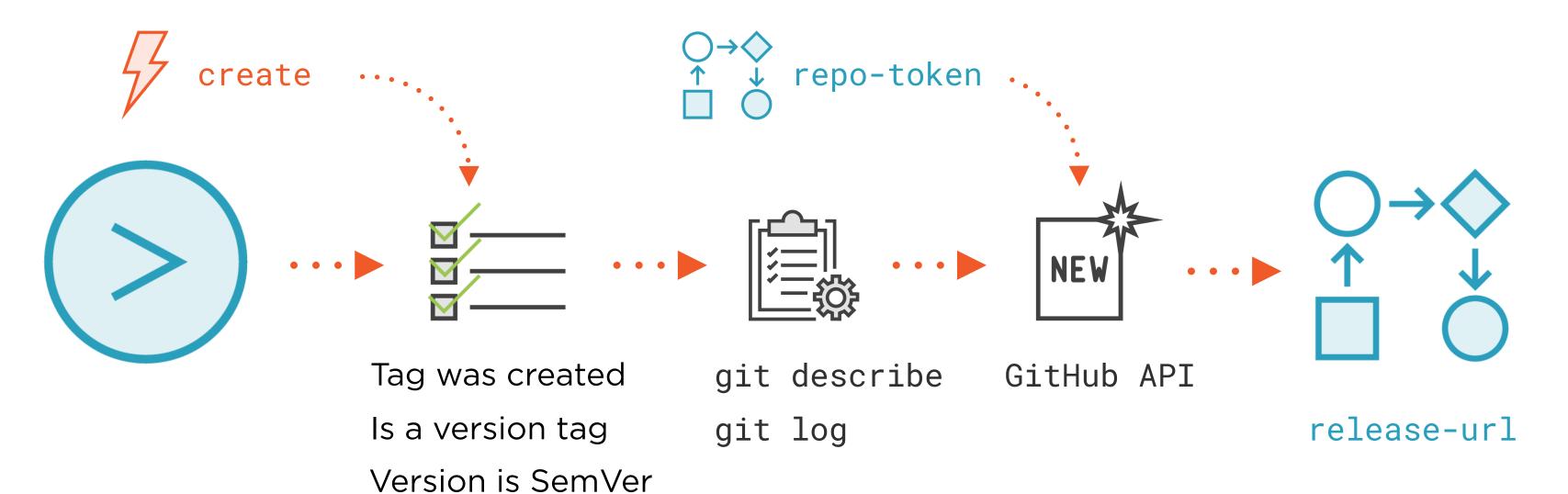
Configure the environment for VS Code

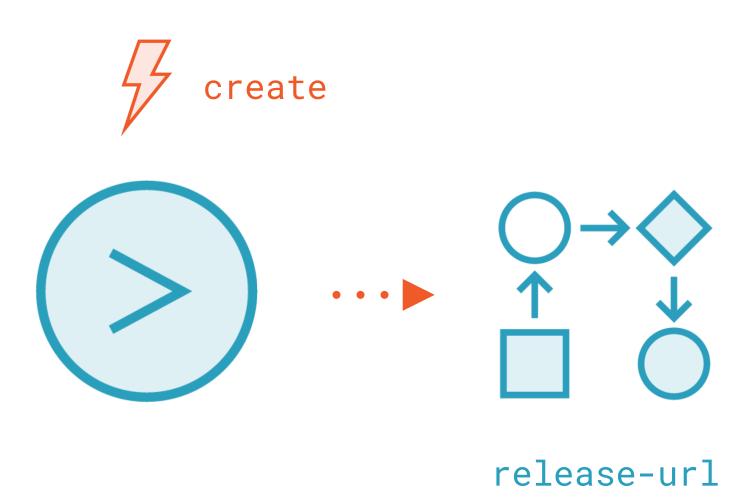
- Tasks
- Node.js debugger

The Walking Skeleton

"A tiny implementation of the system that performs a small end-to-end function."

Alistair Cockburn





Parsing the Event Data

7 create





Version is SemVer

Running CLI Programs



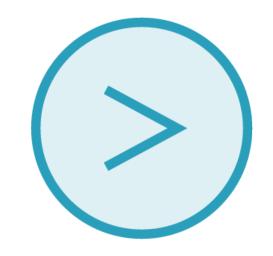


Is a version tag

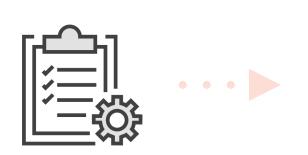
Version is SemVer



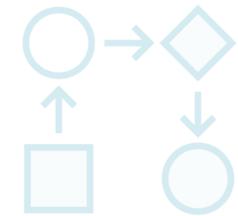
@actions/exec











Tag was created

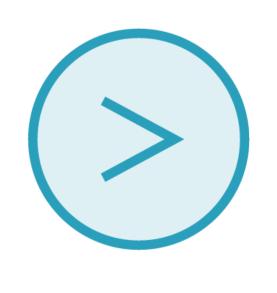
Is a version tag

Version is SemVer

git describe

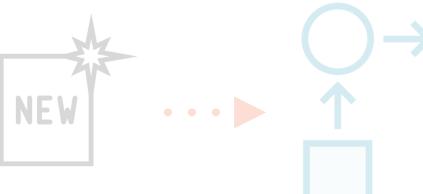
git log

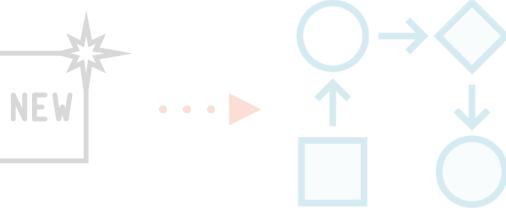
Using the GitHub REST API











Tag was created

Is a version tag

Version is SemVer

git describe

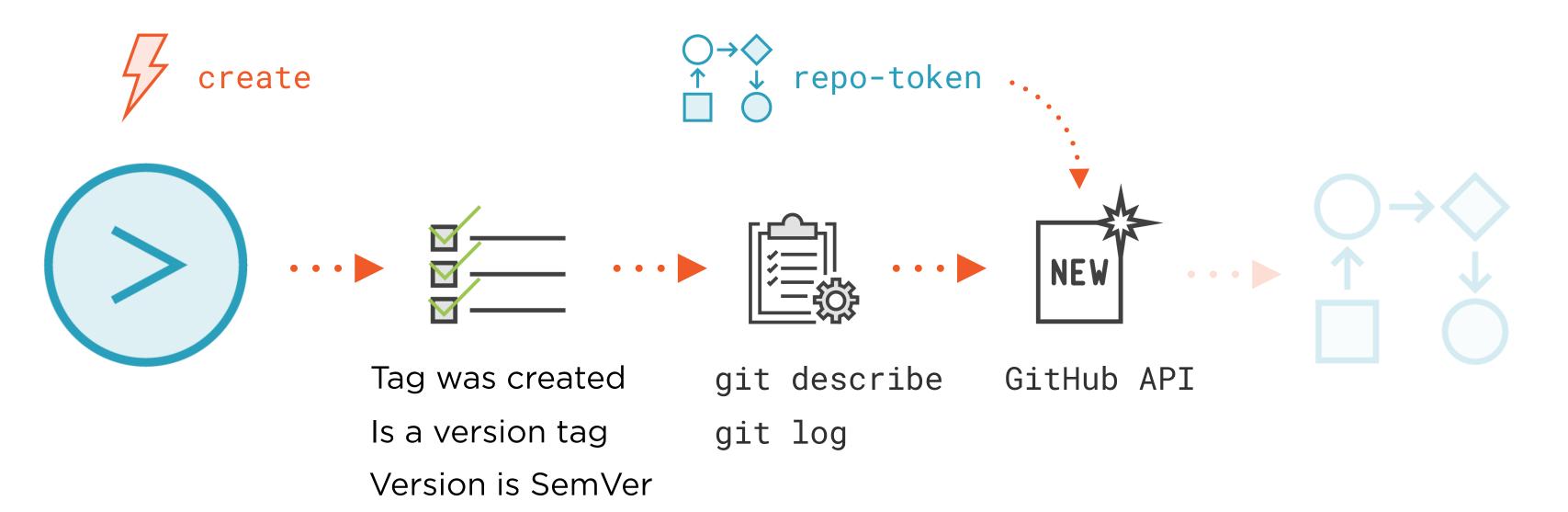
git log

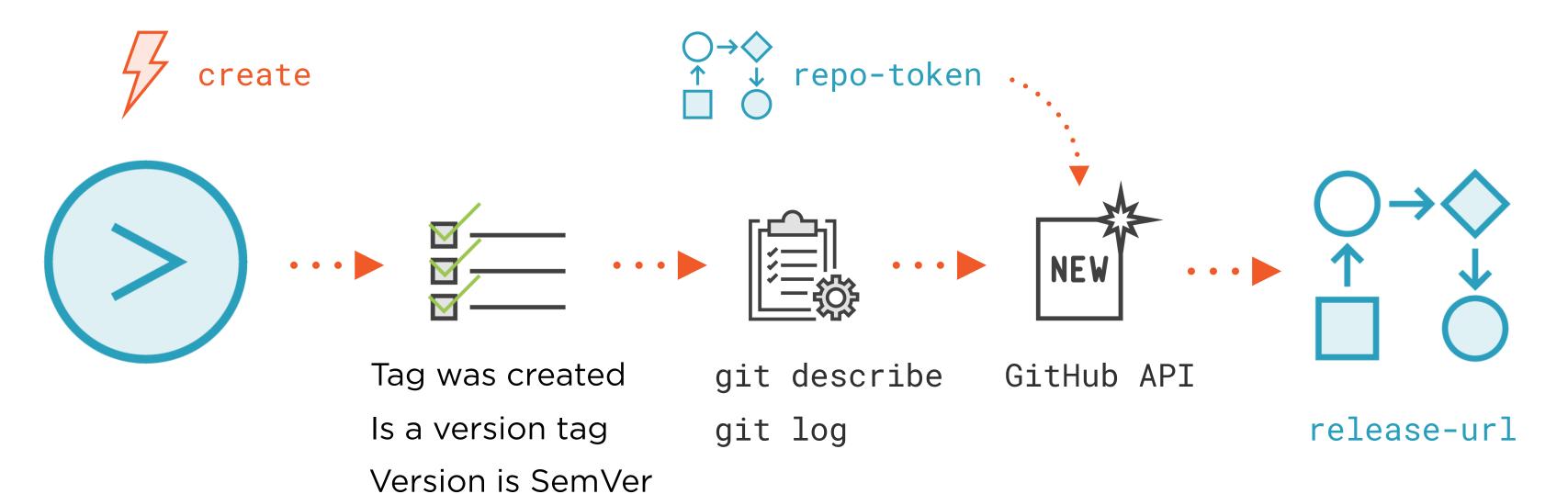


seReposiGoTHUBOKEN



Version is SemVer





Troubleshooting

Two Ways of Troubleshooting



Debug Unit Tests



Debug Logging

Summary

The Auto Release Draft action

Setting up the development environment

Building a walking skeleton

Parsing event data

Running command-line programs

Using the GitHub REST API

Troubleshooting