

Lucky Parking changesets 2024

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Understanding Changesets:

Changesets are records of changes to code, specifically code that should be released together, providing a structured way of bundling together changes made to a codebase, making it easier to manage versions, release notes, and package publishing.

Changesets are useful where there might be multiple packages being developed together. When using changesets, the 3 types you can specify are:

Major: this indicates incompatible API changes, or modifications to code that requires users to change their existing code in order to continue using the product/service. Used with strategic updates, depreciation, or security issues. Major changesets indicate need for caution and review, and that significant changes may impact current use of product.

Minor: increment the minor version when you add features or enhancements that do not break existing functionalities. This is a backward-compatible manner when adding functionality.

Patch: Used for making backward-compatible bug fixes, appropriate for small changes that fix errors in existing code without adding any new features or changing existing features.

Installing Changesets:

1. Add to project:

bash

```
npm install @changesets/cli --save-dev
# or, if you're using Yarn
yarn add @changesets/cli --dev
```

2. Initialize a changeset:

bash

```
npx changeset init
# or
yarn changeset init
```

3. Create a changeset:

bash

```
npx changeset
# or
yarn changeset
```

4. Open a Pull Request:

Commit & push changes with the changeset files to your repo, then open a pull request as you normally would. The team can review both code changes & changesets before being merged.

5. Merge and Release:

bash

```
npx changeset version
# This will bump package versions and update changelogs according to your
changesets

npx changeset publish
# This will publish your packages with the new versions to npm
```

6. Automate with GitHub:

GitHub action to automatically version & publish packages when changes are merged to main.

Example Release Workflow yml file

Example of how to extend workflow to include Changeset usage for versioning and optionally, publishing to npm in `.github/workflows/` make yml file.

GitHub Action configuration comments on pull requests with changeset summaries and releases changes when Pull Requests are merged:

```
name: Release Workflow

on:
  push:
    branches:
      - stable

jobs:
  release:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout code
        uses: actions/checkout@v2

      - name: Setup Node.js
        uses: actions/setup-node@v2
        with:
          node-version: '14'
          registry-url: 'https://registry.npmjs.org/'
```

```

- name: Install dependencies
  run: yarn install

- name: Create Release Pull Request or Publish to npm
  uses: changesets/action@v1
  with:
    publish: yarn changeset publish
    version: yarn changeset version
  env:
    GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
    NPM_TOKEN: ${{ secrets.NPM_TOKEN }}

```

Example Separate Versioning and Publishing Workflows

```

# .github/workflows/version.yml
name: Version Workflow
on:
  push:
    branches:
      - main
jobs:
  version:
    runs-on: ubuntu-latest
    steps:
      # Checkout, setup node, install dependencies...
      - name: Bump version and update changelog
        uses: changesets/action@v1
        with:
          version: yarn changeset version

```

```

# .github/workflows/publish.yml
name: Publish Workflow
on:
  push:
    tags:
      - '*'
jobs:
  publish:
    runs-on: ubuntu-latest
    steps:
      # Checkout, setup node, install dependencies...
      - name: Publish to npm
        run: yarn publish
        env:
          NODE_AUTH_TOKEN: ${{ secrets.NPM_TOKEN }}

```