# Key Helm Commands: A Quick Reference for Kubernetes Developers

**Adds a new chart repository to your Helm environment:**

```
helm repo add <repo-name> <repo-url>
```

**Updates the chart repositories to fetch the latest versions:**

```
helm repo update
```

**Deploy a Helm chart into your Kubernetes cluster:**

```
helm install <release-name> <chart-name>
```

**Deploys a release with custom configuration from a YAML file:**

```
helm install <release-name> <chart-name> -f <values-file.yaml>
```

**Displays all deployed Helm releases in the current namespace:**

```
helm list -A
```

**Useful when working in multi-namespace setups:**

```
helm list --all-namespaces
```

**Updates an existing release with new chart values or configurations:**

```
helm upgrade <release-name> <chart-name>
```

**A life saver command, Automatically rollbacks to the previous version if the upgrade fails:**

```
helm upgrade <release-name> <chart-name> –atomic
```

**Reverts a release to a previous revision:**

```
helm rollback <release-name> <revision>
```

**Simulates an installation without actually deploying it, helpful for debugging:**

```
helm install <release-name> <chart-name> --dry-run --debug
```

**Lists the revision history of a release, useful for rollbacks:**

```
helm history <release-name>
```

**Shows the user-defined values of a release:**

```
helm get values <release-name>
```

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**Validate the chart syntax before installation:**

```
helm lint <chart-name>
```

**Removes a release from the Kubernetes cluster:**

```
helm uninstall <release-name>
```

**Creates a .tgz package for your custom chart, making it ready for deployment:**

```
helm package <chart-directory>
```

**Searches for Helm charts in your configured repositories:**

```
helm search repo <keyword>
```

**Displays the default values of a Helm chart:**

```
helm show values <chart-name>
```

**Renders Helm templates to generate YAML files for Kubernetes without deploying them:**

```
helm template [NAME] [CHART] [flags]
```