



Symplectic Reduction

Symplectic manifold
GGM

moment map

$G\backslash G^*$

Coadjoint action

\mathfrak{t}^* Cartan subalgebra

Group
G

$\bar{\mu}'(0)$

$\bar{\mu}'(\theta_\alpha)$

$M//G$

$M//_\alpha G$

$\bar{\mu}'(0)$ is
G-bundle
 \downarrow
 $M//_\alpha G$

Coadjoint orbit
 GG_α

$\alpha \in \mathfrak{t}^*$

Tip 2:

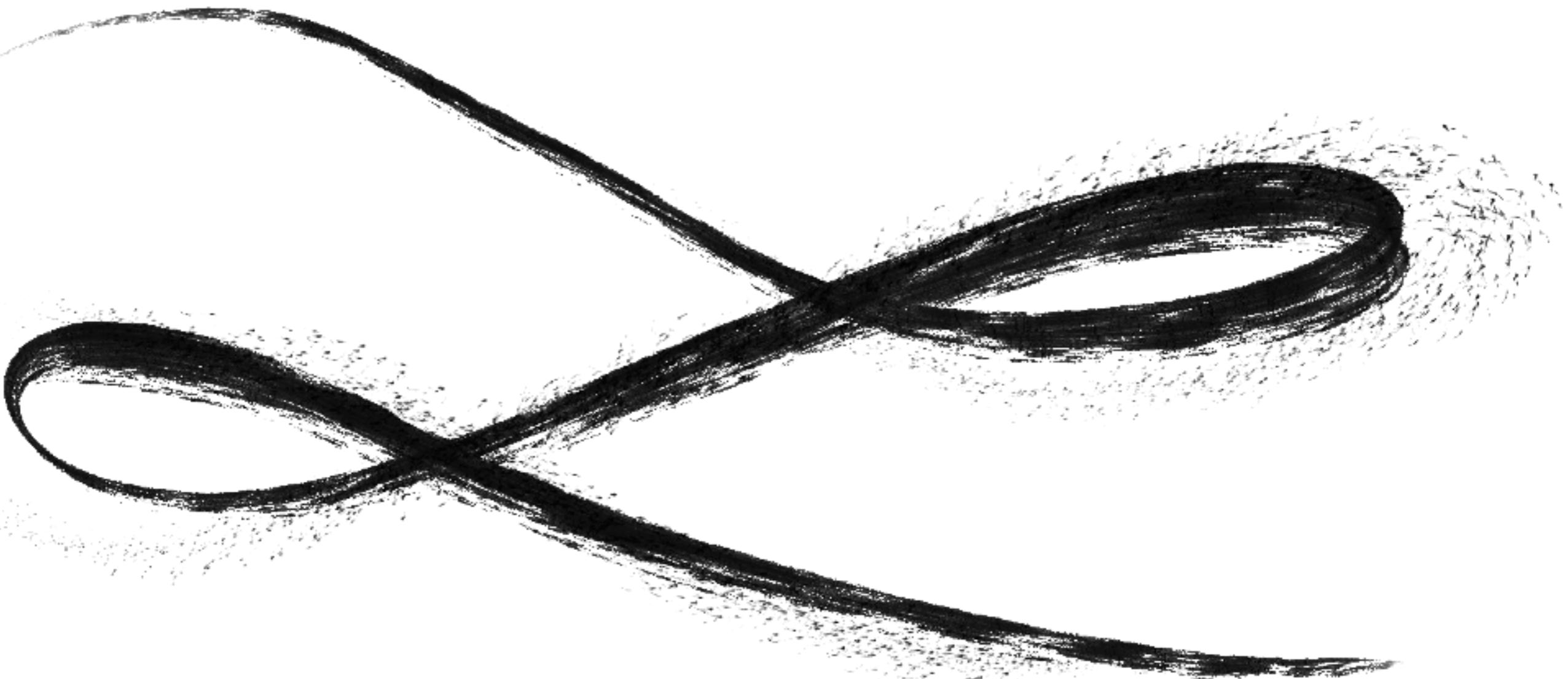
slices

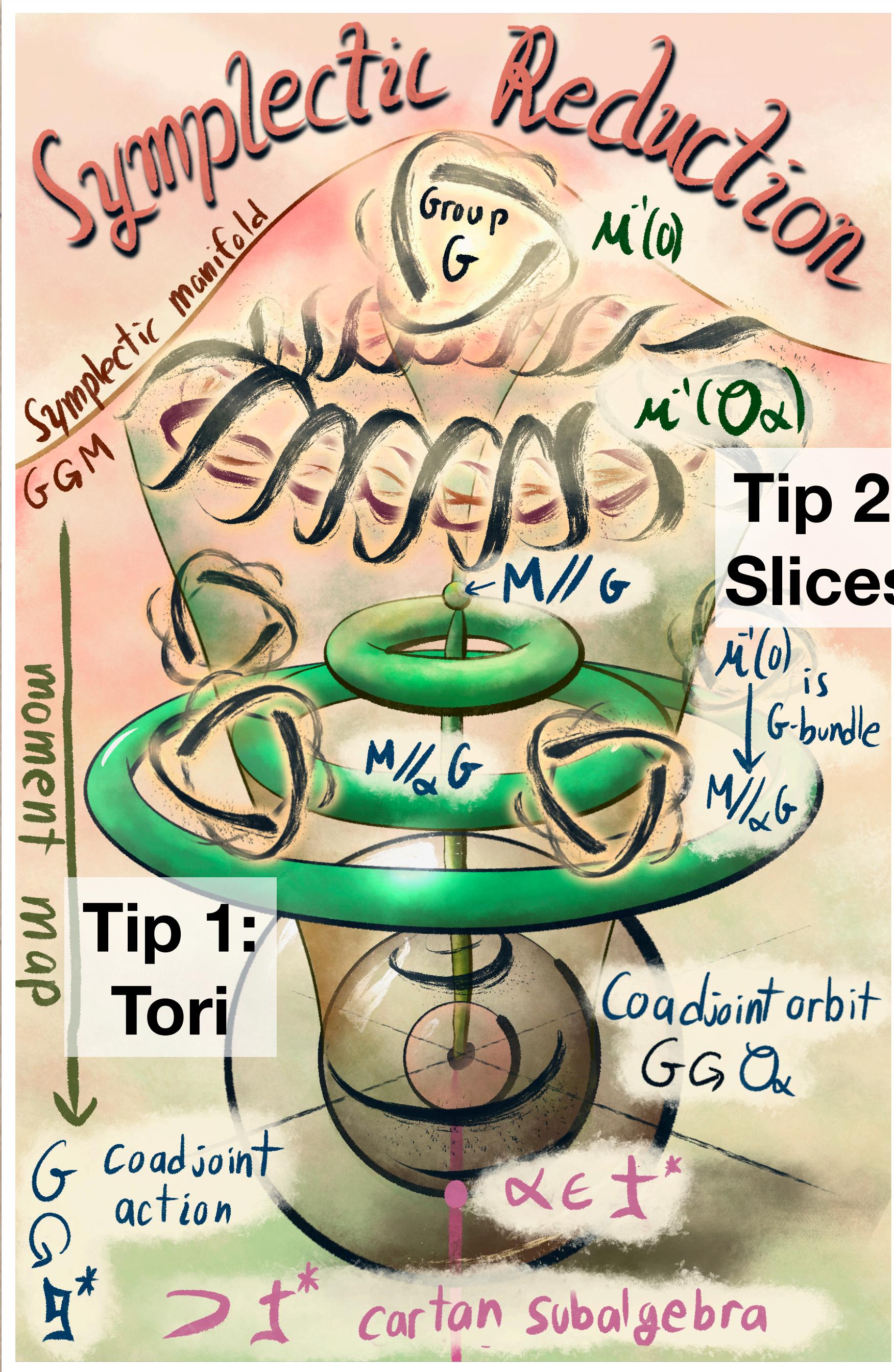
Tip 1:

Tori

The ink brush is kinetic, suggesting motion along the group action

**Brush design:
Black Ink represents group actions**



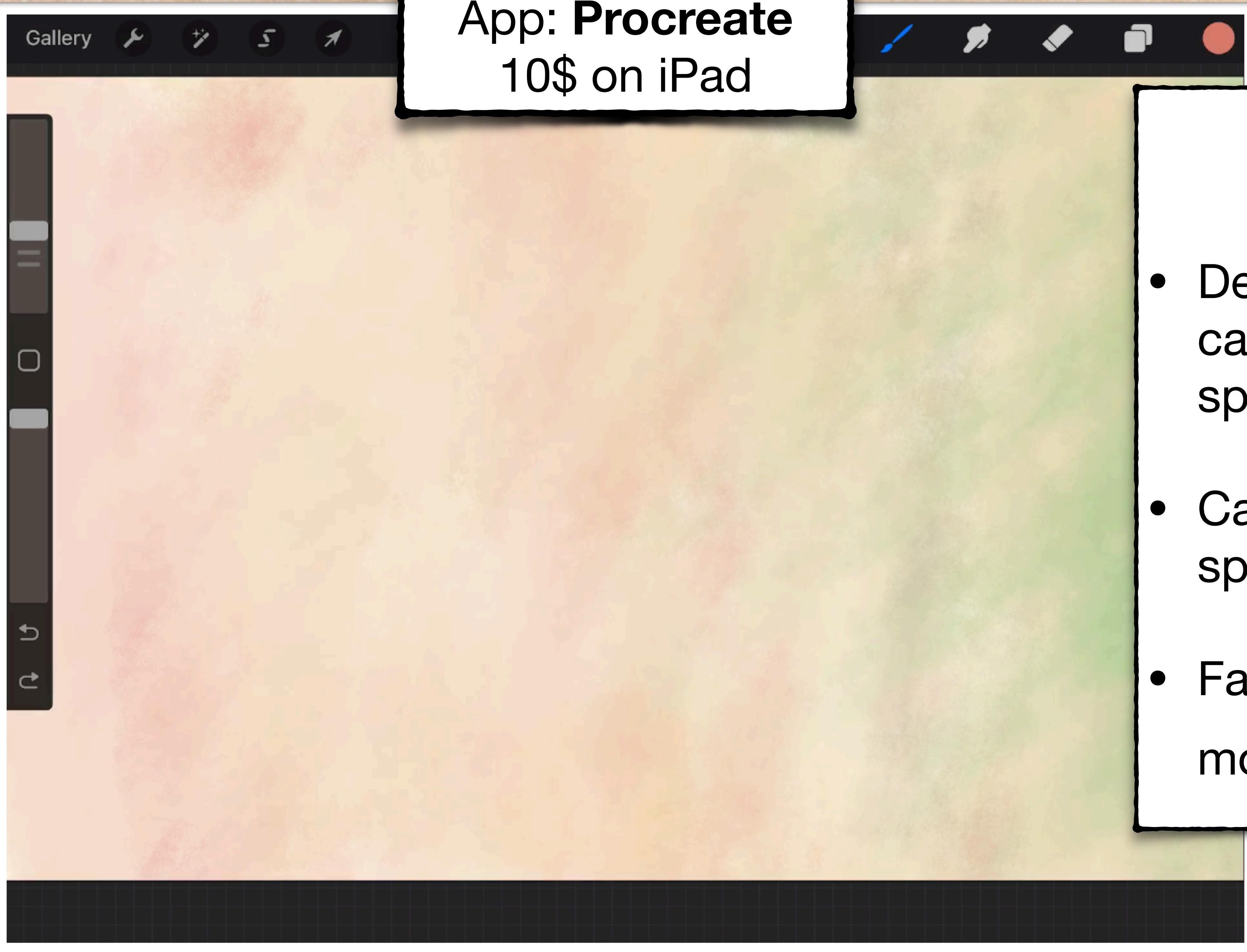


Brush design:
Black Ink represents group actions



The ink brush is kinetic, suggesting motion along the group action

App: Procreate
10\$ on iPad



Ink brush

- Designed by combining calligraphy brush with splotch brush
- Calligraphy follows pen, splotches lag behind
- Faster pen motion ↔ more splotch separation