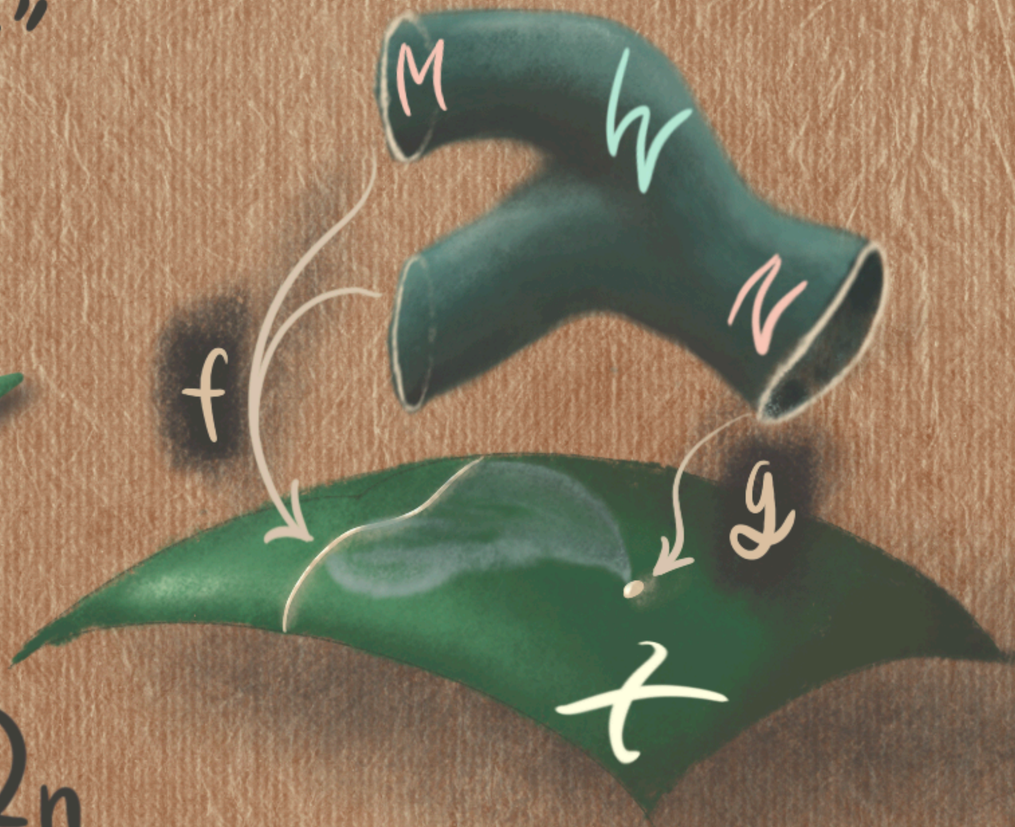
$\Omega_n(X)$ "cobordisms over X"

Top $\to$ Grp

functorial: ✓ homotopy invariant: ✓



$\Omega_n(pt) = \Omega_n$

$\Omega_n(X)$ is bigger than $\Omega(pt)$

↳ module over $\Omega(pt)$

Generalized Homology Theory!!

Eilenberg-Steenrod axioms:

functoriality ✓

homotopy ✓

Exactness

Excision

cobordisms over pairs (X,A)

Dimemension: ✗ $\Omega_*(pt) \neq 0$

Proof: find spectrum...

suspension isomorphism

$$\Omega_n(X) \cong \Omega_{n+1}(\Sigma X)$$

Cob-ordism