# Skip to content Guides

#### Reference

Panel:

Physics • Fluid • Guides

Type:

Domain

Fluid guides are used to apply forces onto the simulation. They are like simple external forces but also seek to preserve the physically accurate flow of th fluid. The *Guides* panel allows you to adjust guiding forces globally, i.e. for the entire domain. Enabling the guides hints the fluid solver to use the more accurate, but also computationally more expensive pressure solving step.

Even when there are no guiding objects baked or there is no guiding domain attached, the fluid solver will still perform the more expensive pressure guiding algorithm if guiding is enabled. It is therefore recommended to only enable *Guides* when there is a clear intention to use guiding in the simulation.

See also

Fluid guiding is an implementation of Primal-Dual Optimization for Fluids.

## Weight

Controls the lag of the guiding. A larger value (also known as the 'alpha' guiding value) results in a greater lag.

## Size

This setting determines the size of the vortices that the guiding produces. A greater guiding size (also known as the blur radius or 'beta' guiding value) results in larger vortices.

## **Velocity Factor**

All guiding velocities are multiplied by this factor. That is, every cell of the guiding grid, which has the same size as the domain object, is multiplied this factor.

## **Velocity Source**

Guiding velocities can either come from objects that move inside the domain or from other fluid domains.

## Effector

All effector objects inside the domain will be considered for the global guiding velocity grid. Once effector objects have been baked it is no possible to change the fluid domain resolution anymore.

### Domain

When using another fluid domain as the guiding velocity source this domain may have a different resolution and may also be of a different tyle.g. the guiding domain is of type *Gas* while the actual domain with the guiding effect in it is of type *Liquid*).

In order to use a domain as the velocity source, this domain needs to be baked already.

## Guide Parent

When using Domain as the velocity source, this field serves to select the guiding domain object.

## **Bake Guides, Free Guides**

This option is only available when using the Modular cache type and when using *Effector* as the Velocity Source. *Bake Guides* writes vertex velocities of effector objects to drive. It is meant to be used before baking the fluid simulation.

The progress will be displayed in the status bar. Pressing Esc will pause the simulation.

Once the simulation has been baked, the cache can be deleted by pressing Free Guides. It is possible to pause or resume a Bake Guides proces

Collection

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