




gravel
volume one
Real 3D Gravel

A modern architectural courtyard featuring a gravel path with rectangular stepping stones. The path is flanked by dark stone walls. A bicycle is parked against the right wall. The scene is lit with warm, low-angle light, creating long shadows and highlighting the textures of the gravel and stone.

Content

Gravel Meshes

As a first on the market, we offer gravel 'textures' in form of real 3D geometry. This product contains gravel meshes based on 15 different gravel styles in sizes of 4m² and 16m². All meshes are provided in .max format (compatible with 3DS Max™ 2010+), as well as .obj format (compatible with many other applications).

Stone Textures

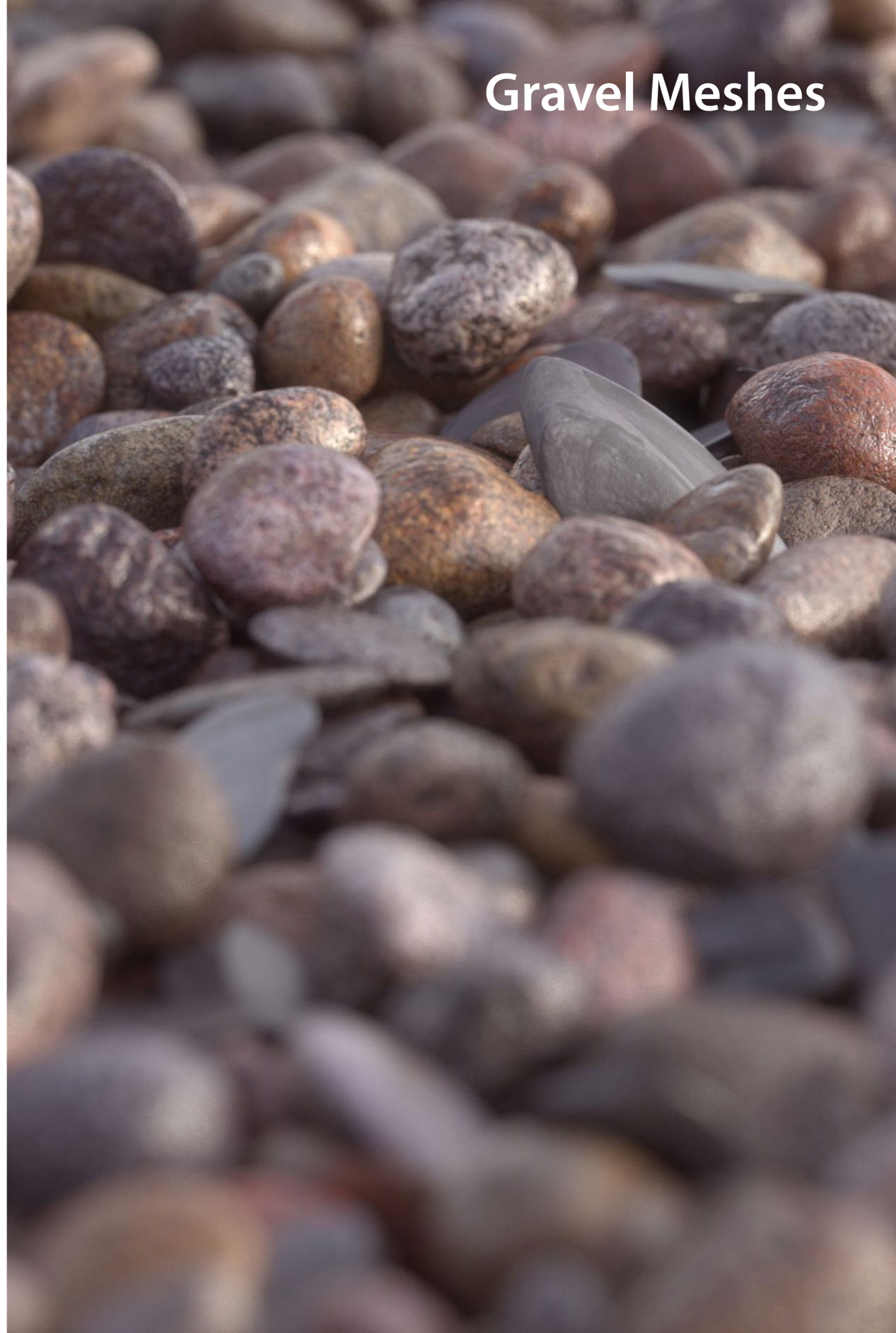
Meant to be used with the 3D gravel meshes, this product also contains especially optimized stone textures in 257 different styles and colors, based on 94 distinct sets. Each texture set consists of diffuse, bump, normal, as well as reflectivity maps. As with the gravel textures, we also provide ready-to-use material setups for 3DS Max™ (2010+) and MaxwellRender™ (2.x).

Gravel Textures

This product contains a total of 134 gravel textures, based on 15 different gravel styles. Each texture consists of diffuse, bump, normal, displacement and reflectivity maps, as well as a number of special maps that will help you to modify the gravel textures or to create entirely new textures. Also included are ready-to-use material setups for 3DS Max™ and MaxwellRender™.

For more details, please visit
www.arroway-textures.com/products/gravel-1

Gravel Meshes



The Problem

There are inherent limitations when it comes to gravel textures. No matter how well the texture is made, how precise its normal or displacement map describes the virtual gravel surface, it still is just a two-dimensional approximation of a complex three-dimensional structure.

Several different techniques can be employed in trying to compensate for this fact.

One that is widely used is displacement mapping. Although certainly an improvement, the illusion breaks down quickly once one gets too close.



Displacement Mapping

Our Solution

Since polygon counts matter less and less these days, it has now become a viable approach to render complex surfaces, such as gravel, as real 3D geometry.

The only remaining difficulty, is to produce the actual 3D mesh data. We have developed a special simulation software that is capable of randomly creating different styles of pebbles, as well as scattering hundreds of thousands of them physically correct onto a specified area.



3D Gravel

Details

UV Mapping

Each individual pebble has been cleanly seamed and unwrapped (using ABF++) to produce a low-distortion mapping. The finished UV mapping is optimized for stone textures with a size of 50cm x 50cm.

Using the high-resolution stone textures included in this product, all this allows for even extreme close-ups.

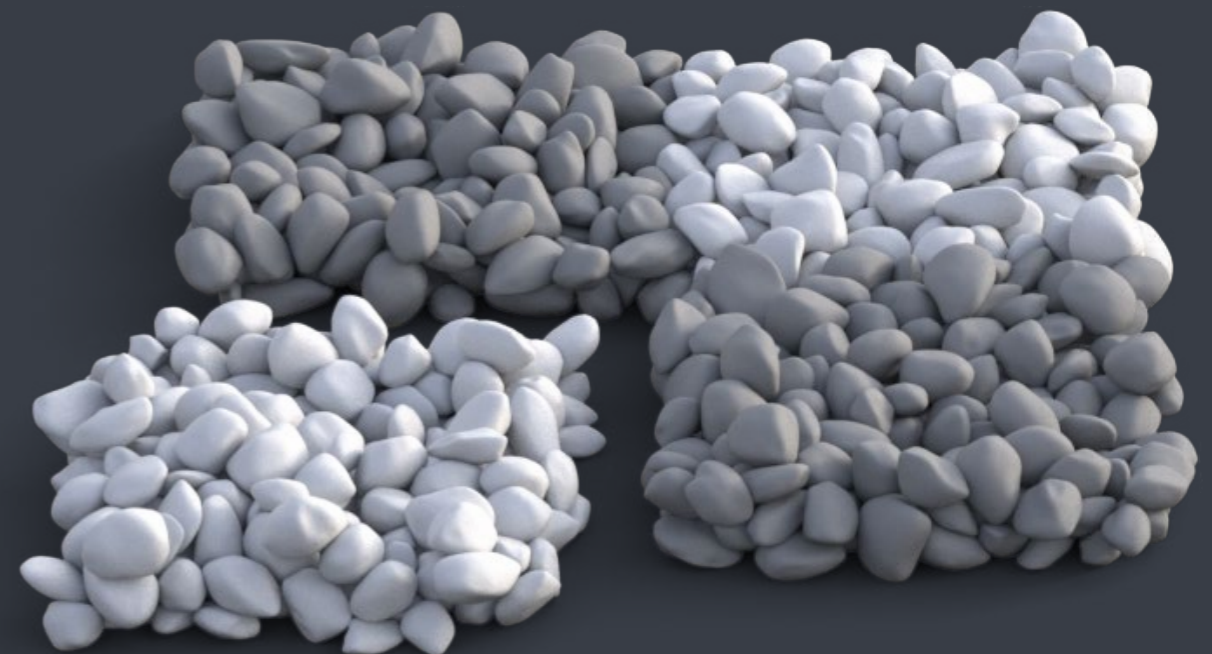
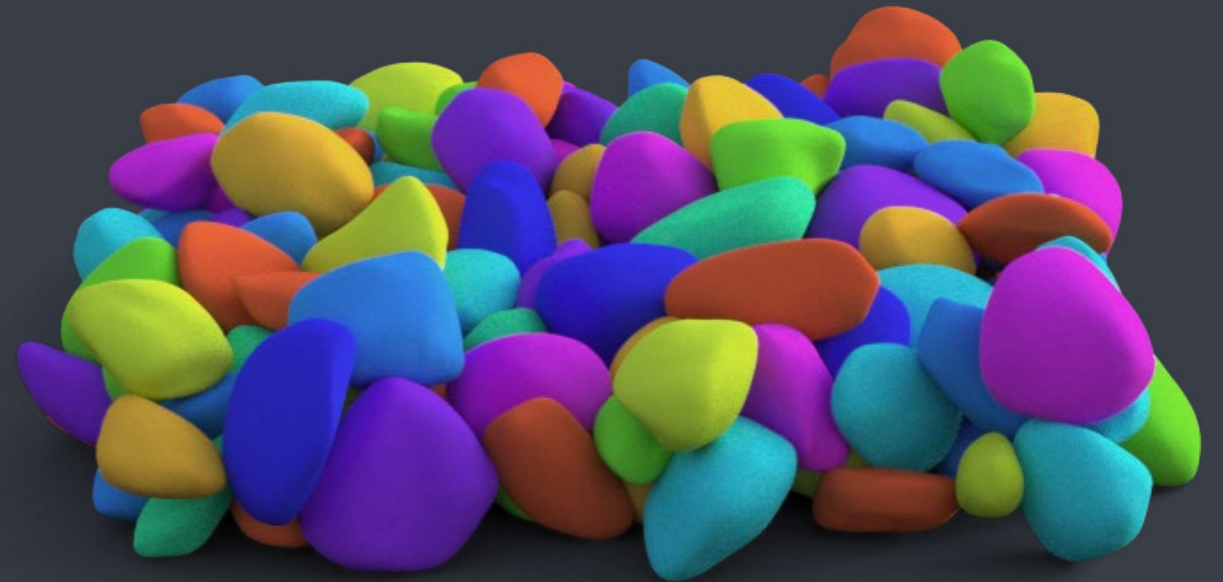
Material IDs*

Each individual pebble has been assigned a random material ID between 1 and 10 (20 in case of gravel-base-13). This allows for the creation of custom mixtures of different stone types and colors. Simply use a Multi/Sub-Object material and assign different stone materials to create a virtually endless variety of styles.

* Not available for .obj files.

Mesh Clusters

To have the whole gravel surface as one single mesh object would not be practical. Neither would it be possible to have every pebble be its own mesh object. As a compromise, we've fused pebbles into individual pebble clusters of 25cm x 25cm each. This makes it possible to approximate the shape of a graveled area by deleting clusters outside of the area, while still being not too heavy on the viewport.



Mesh Layers

In addition to clusters, most gravel meshes have also been split into two layers; a top-layer and a bottom-layer, each containing roughly half of the pebbles. This way you can choose which layer is visible, e.g. according to what density of pebbles is required. For gravel that is farther away or seen from a shallow angle, only one of the two layers may need to be switched on, for instance.

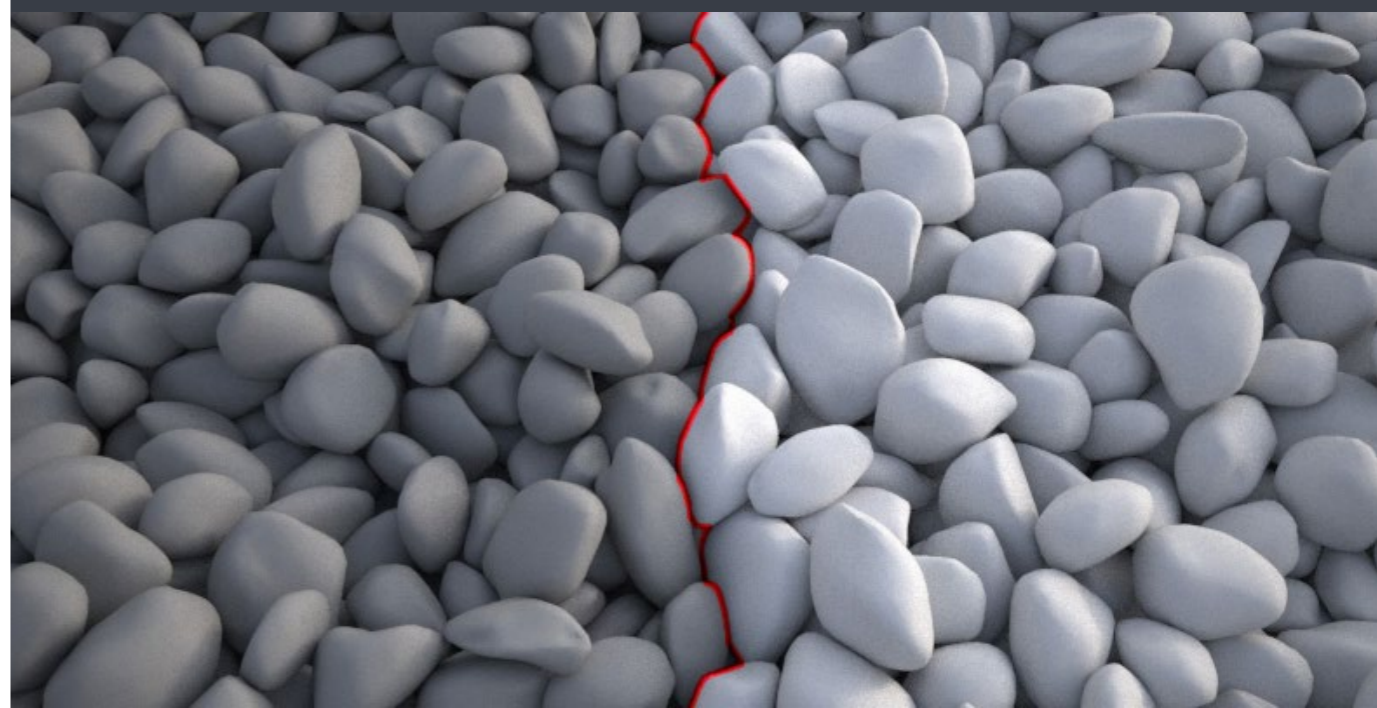
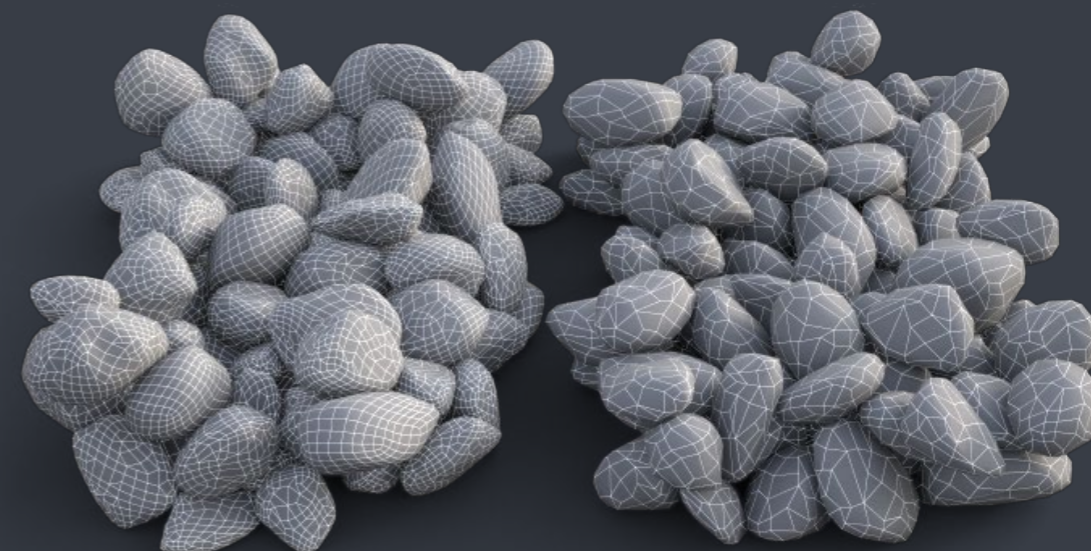
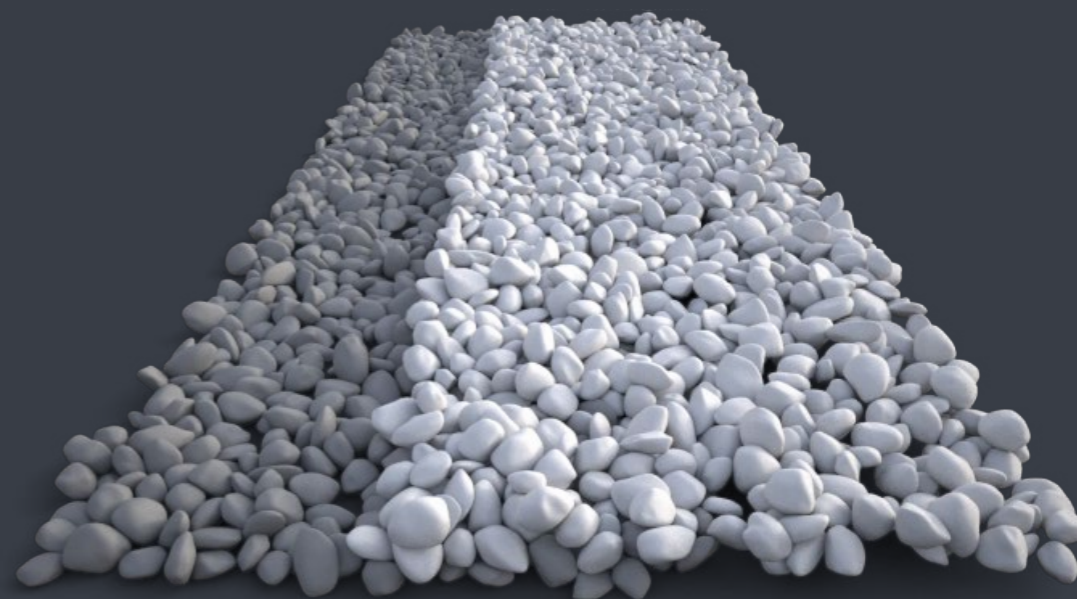
Scale/Resolution

The 3D gravel meshes that are contained in this product cover an area of nominally 2m x 2m and 4m x 4m. While both versions have the same polygon count of roughly 8 million, the 2m version has four times more mesh detail per pebble as the 4m version. Use the 2m version where gravel is seen up close and the 4m version in cases where a larger area has to be covered. You can also, of course, combine the two.

Seamless Geometry

In cases where an even larger area of gravel is needed, these meshes do tile seamlessly - just as a bitmap texture would.

With the use of mesh object instancing, it is possible to cover areas of several hundred square meters, without consuming much more memory as one single gravel mesh would.



Polygon Count

We have limited most of our gravel meshes to ~8 mio faces and ~4 mio vertices. In our view, this marks a good compromise between what is needed to produce convincing gravel, as well as what is practical, given the current level of software/hardware technology.

In cases where a greater mesh detail is needed, our gravel meshes can easily be further subdivided to produce the desired resolution.

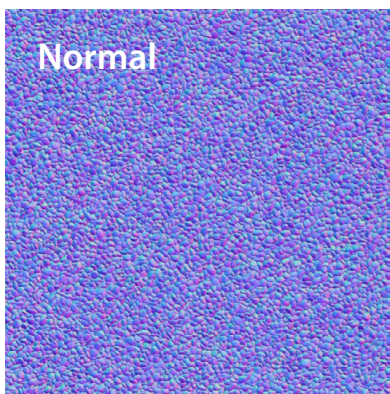


Scalability

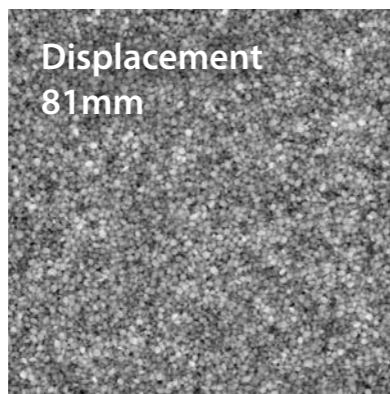
Although our gravel meshes have a nominal size of 2m x 2m and 4m x 4m, you are not bound to this scale. Due to the somewhat 'fractal' nature of gravel and its individual pebbles, it is possible to scale the meshes up or down with basically no limit.

In this example, the same mesh works as small grains of sand, medium sized pebbles, as well as larger cobbles.

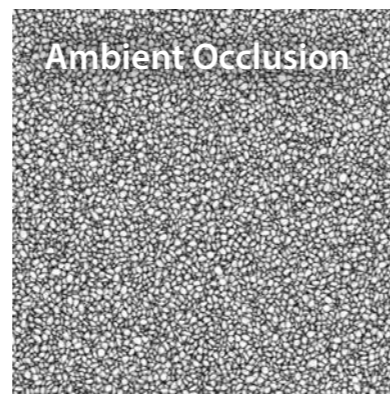




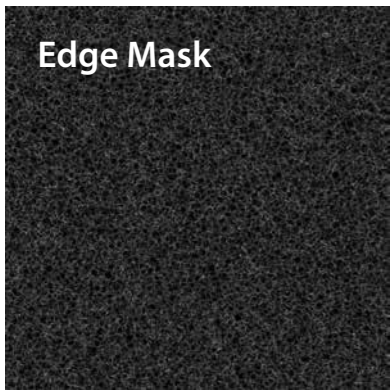
Normal



Displacement
81mm



Ambient Occlusion



Edge Mask

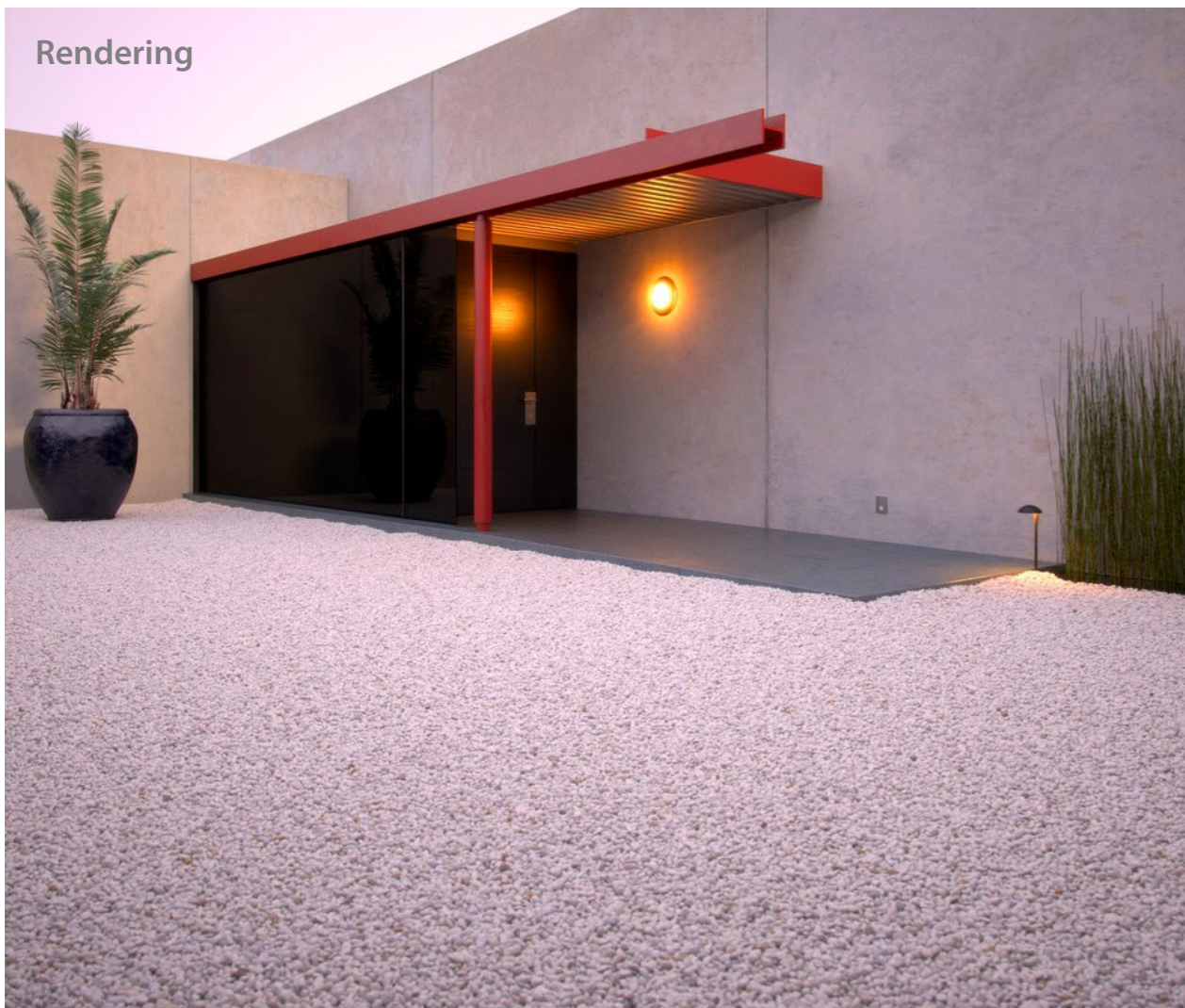


Variation Mask



Smoothed 1 / gravel-base-01

Gravel Vol. 1 - Disk #1+3



Rendering



3D Meshes

2m: 2.0m x 2.0m | 7.8mio faces | 3.9mio verts

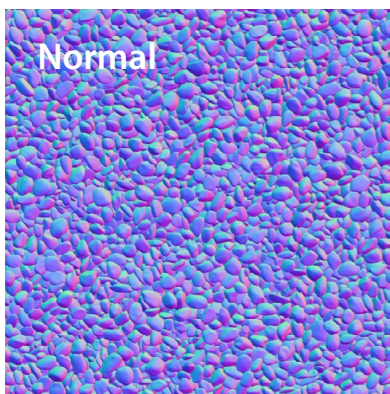
4m: 4.0m x 4.0m | 8.0mio faces | 4.1mio verts

Base Maps

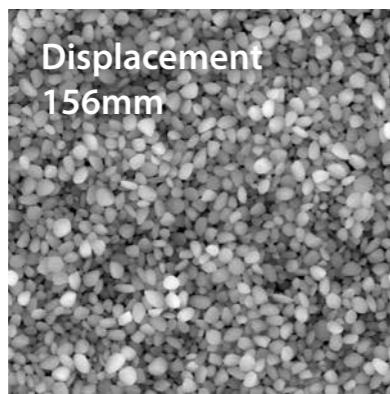
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

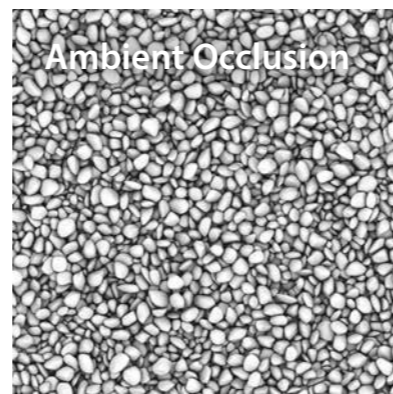
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px



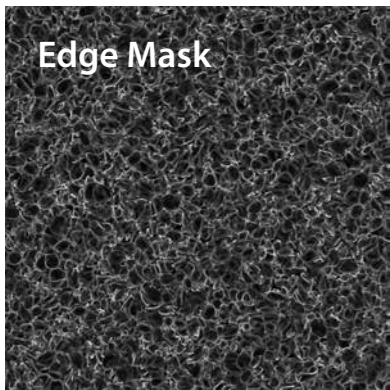
Normal



Displacement
156mm



Ambient Occlusion



Edge Mask

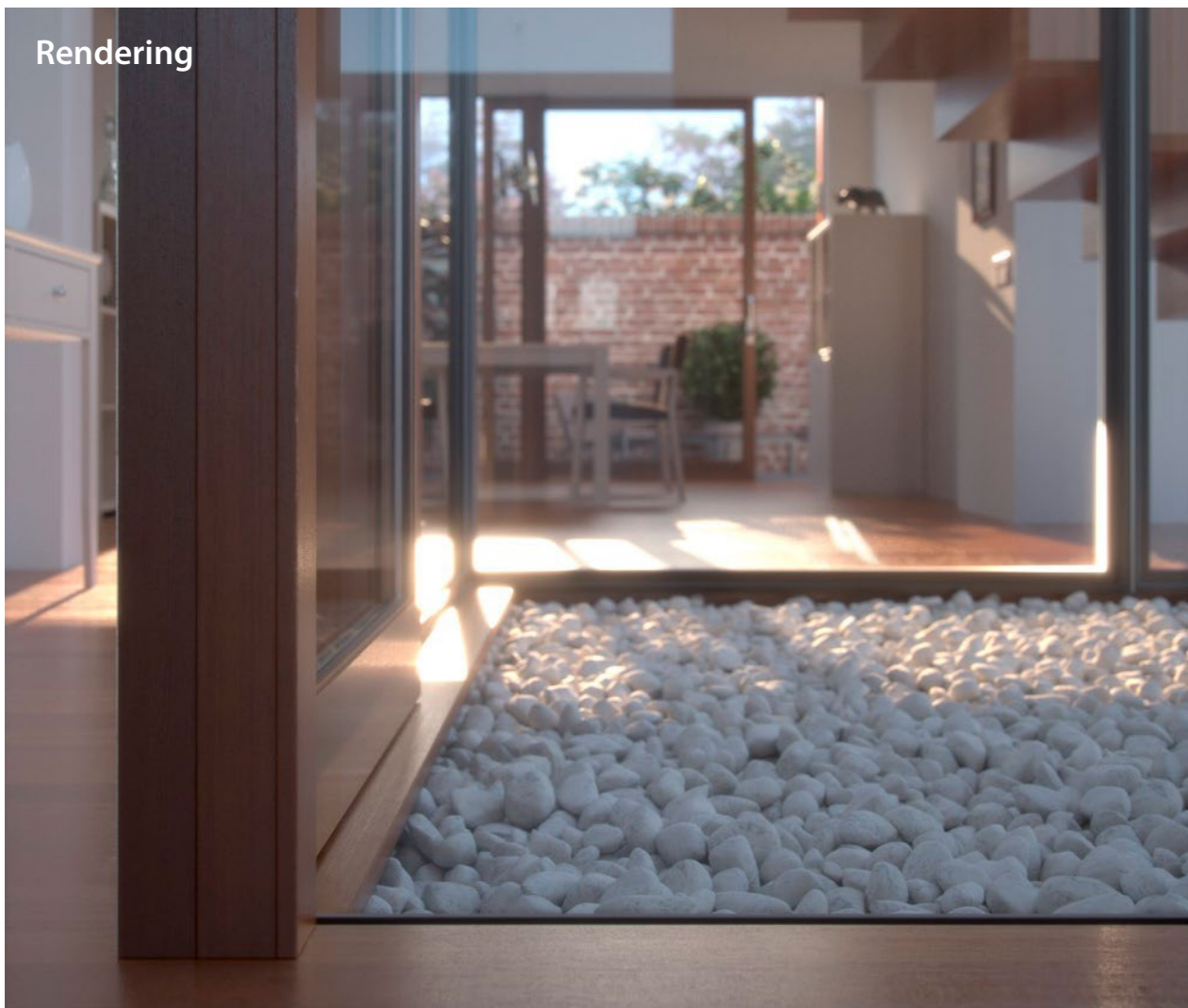


Variation Mask



Smoothed 2 / gravel-base-02

Gravel Vol. 1 - Disk #1+3



Rendering



3D Meshes

2m: 2.0m x 2.0m | 2.1mio faces | 1.0mio verts

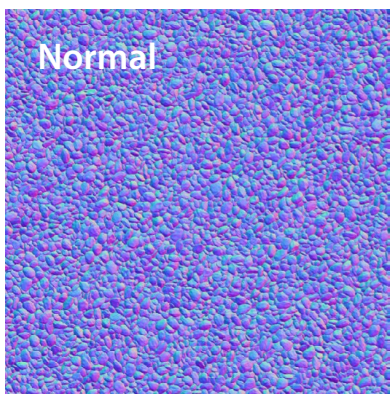
4m: 4.0m x 4.0m | 8.4mio faces | 4.2mio verts

Base Maps

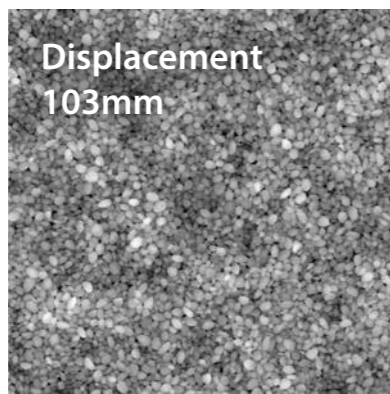
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

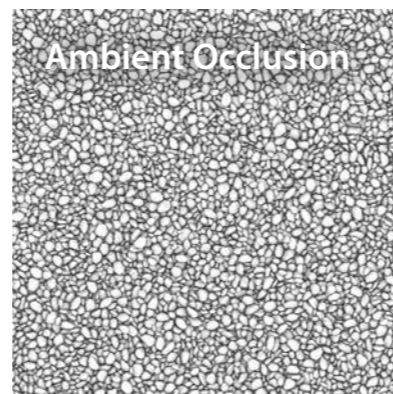
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px



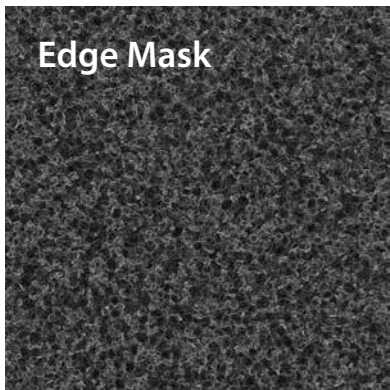
Normal



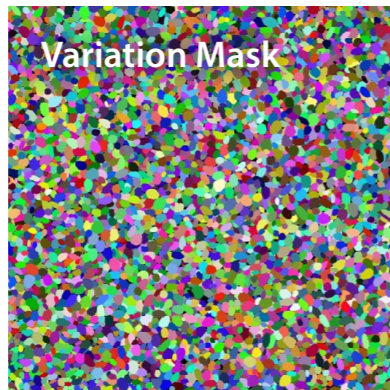
Displacement
103mm



Ambient Occlusion



Edge Mask

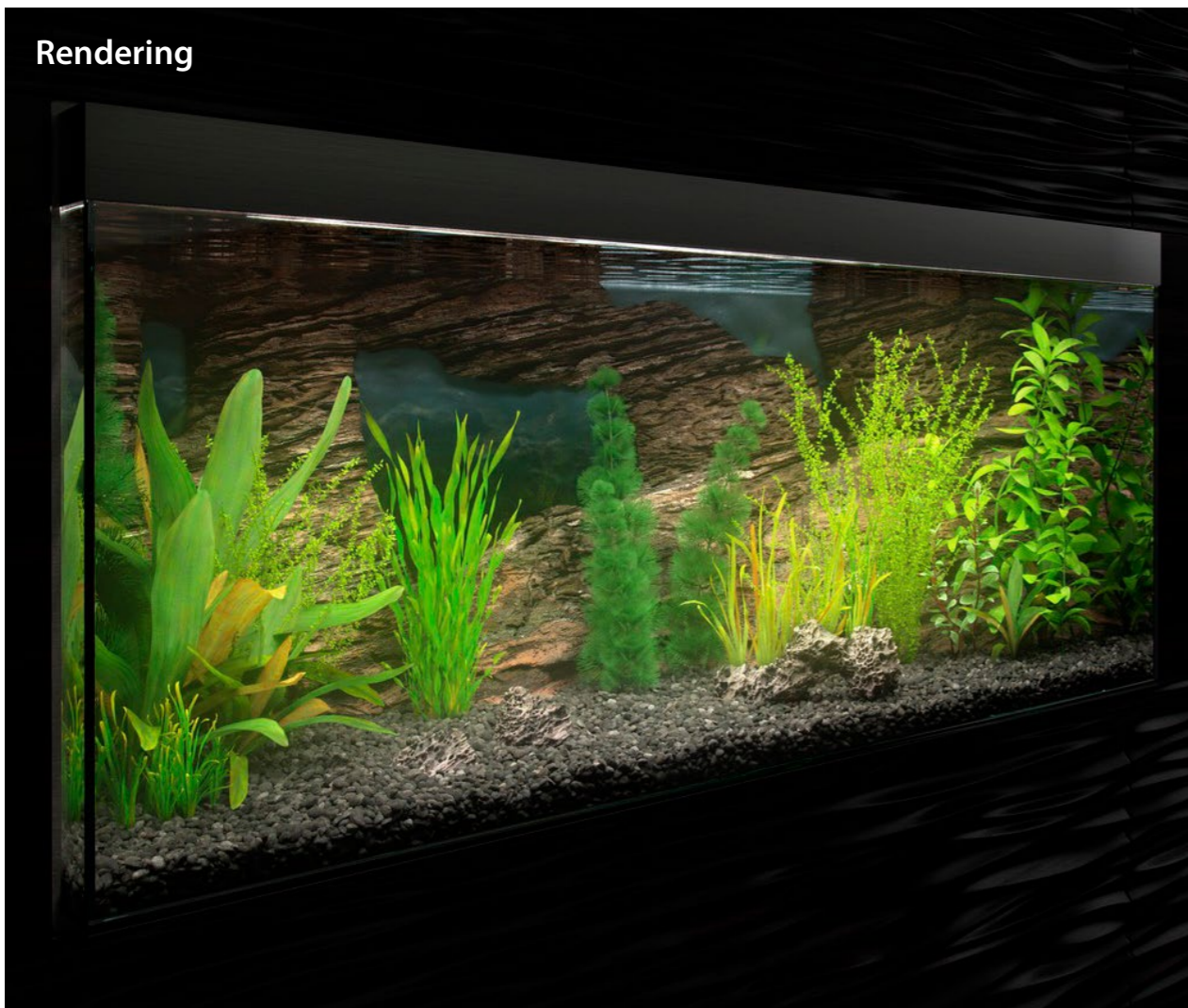


Variation Mask



Smoothed 3 / gravel-base-03

Gravel Vol. 1 - Disk #1+3



Rendering



3D Meshes

2m: 2.0m x 2.0m | 8.0mio faces | 4.0mio verts

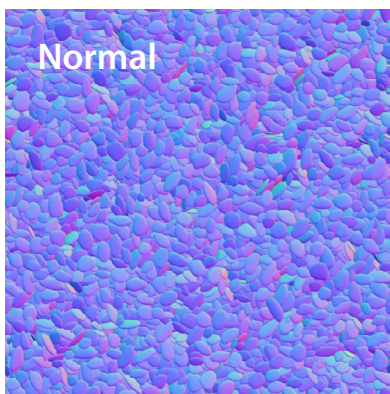
4m: 4.0m x 4.0m | 8.0mio faces | 4.0mio verts

Base Maps

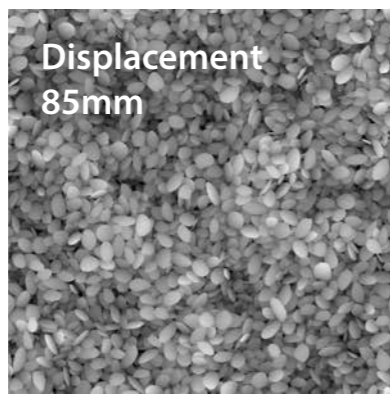
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

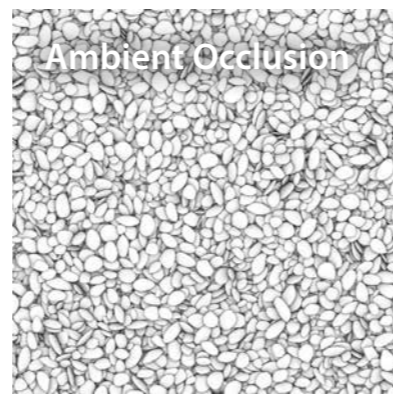
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px



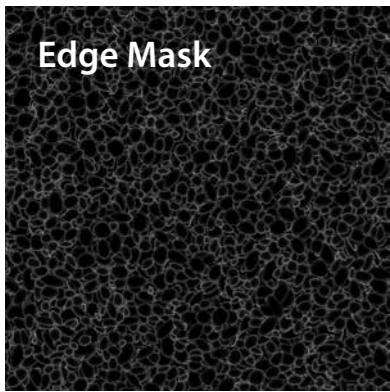
Normal



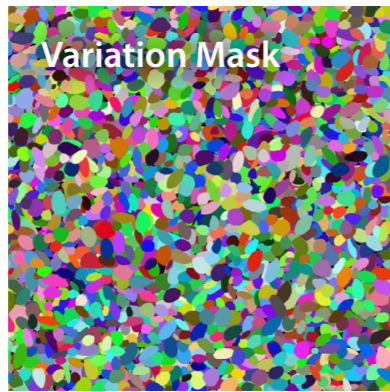
Displacement
85mm



Ambient Occlusion



Edge Mask

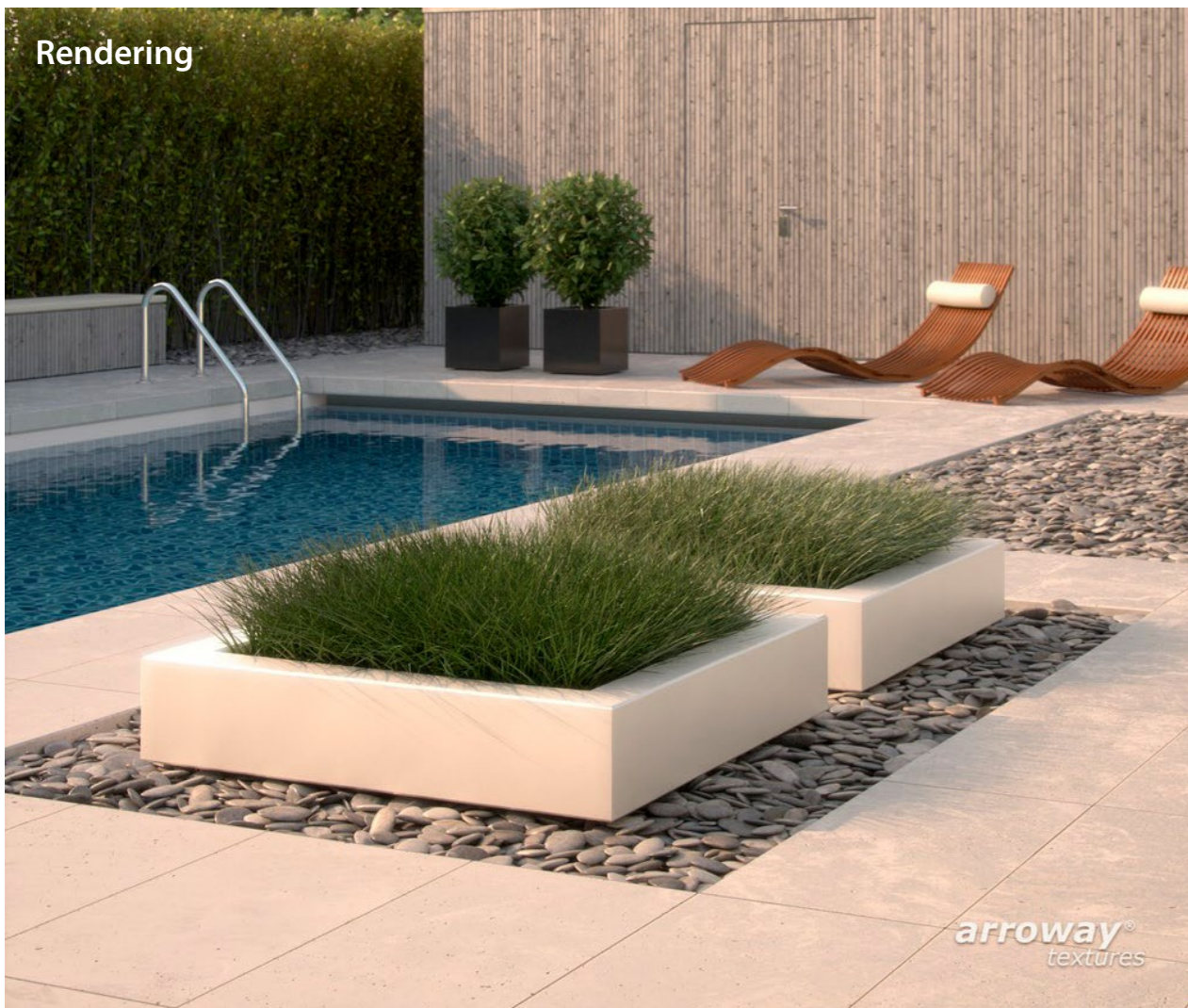


Variation Mask



Smoothed 4 / gravel-base-04

Gravel Vol. 1 - Disk #1+3



Rendering

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textures



3D Meshes

2m: 2.0m x 2.0m | 1.0mio faces | 0.5mio verts

4m: 4.0m x 4.0m | 4.0mio faces | 2.0mio verts

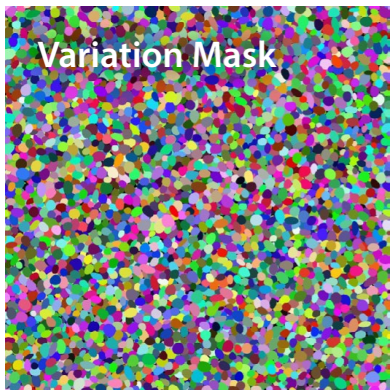
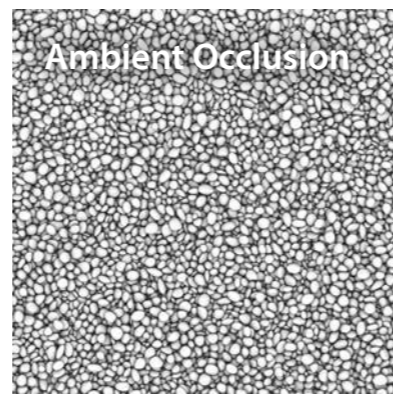
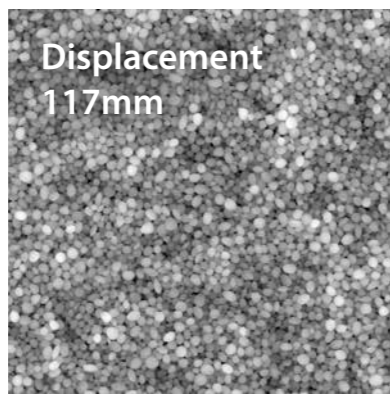
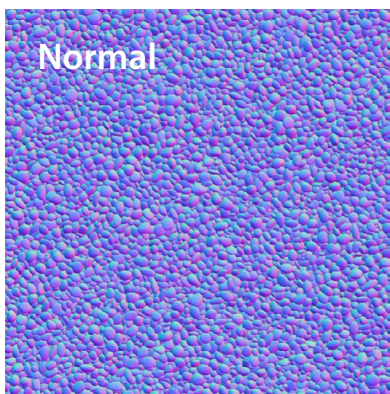
Base Maps

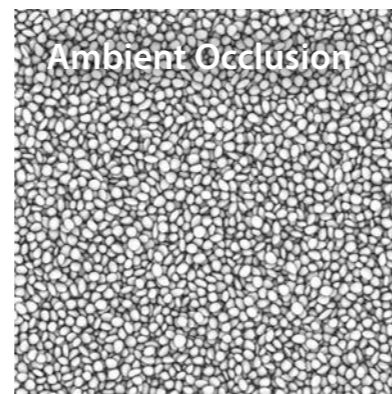
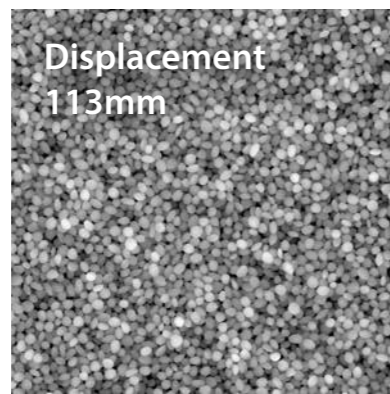
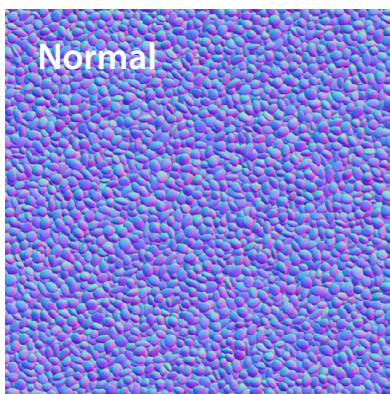
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

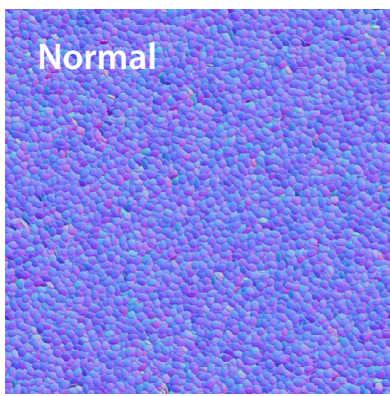
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

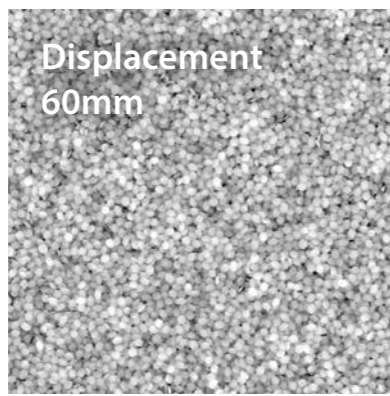
arroway®
textures



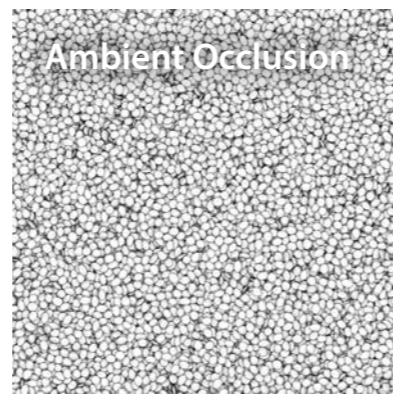




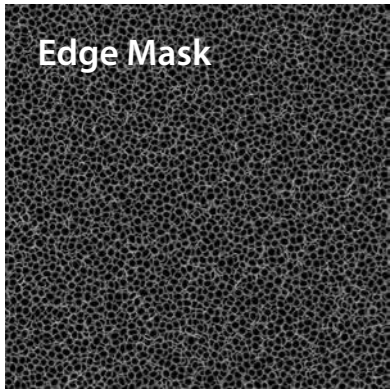
Normal



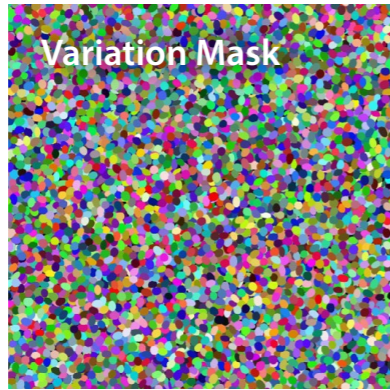
Displacement
60mm



Ambient Occlusion



Edge Mask



Variation Mask



Rendering

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Pebbles 3 / gravel-base-07

Gravel Vol. 1 - Disk #1+3



3D Meshes

2m: 2.0m x 2.0m | 4.0mio faces | 2.0mio verts

4m: 4.0m x 4.0m | 8.0mio faces | 4.0mio verts

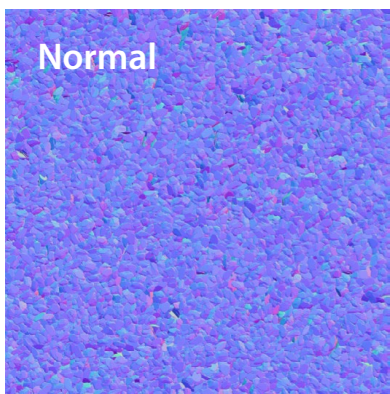
Base Maps

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

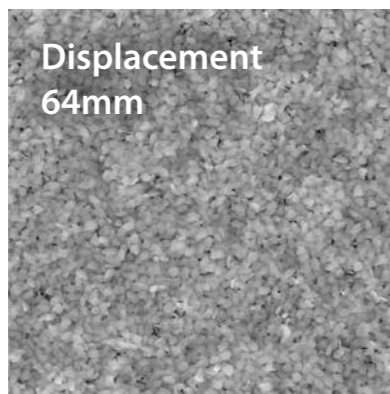
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

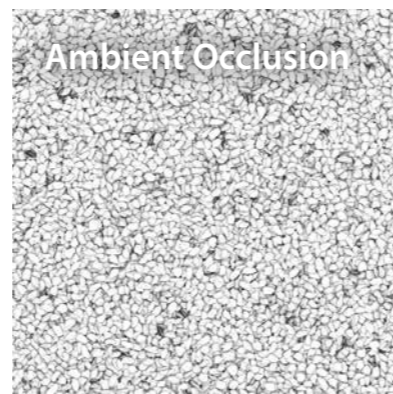
arroway®
textures



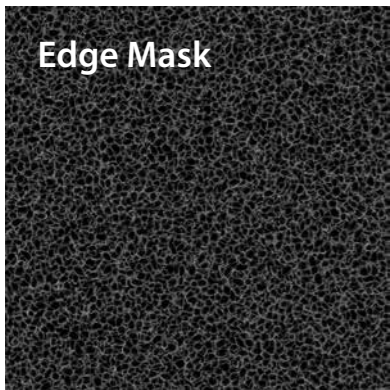
Normal



Displacement
64mm



Ambient Occlusion



Edge Mask



Variation Mask



Slate 1 / gravel-base-08

Gravel Vol. 1 - Disk #1+3



Rendering



3D Meshes

2m: 2.0m x 2.0m | 8.0mio faces | 4.0mio verts

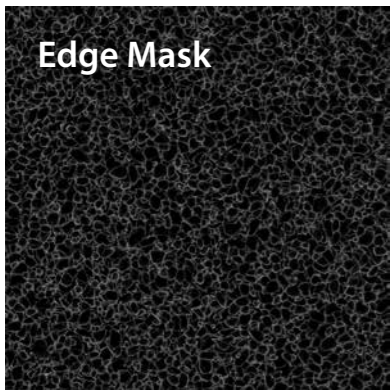
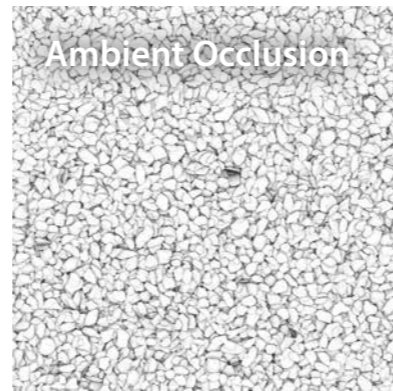
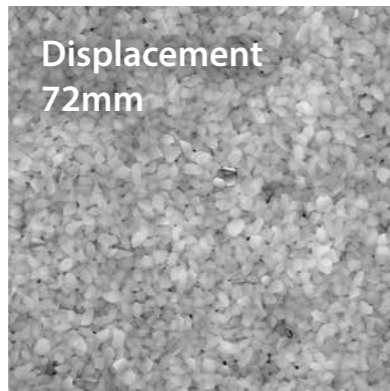
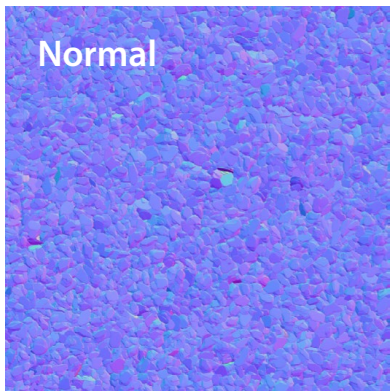
4m: 4.0m x 4.0m | 8.0mio faces | 4.0mio verts

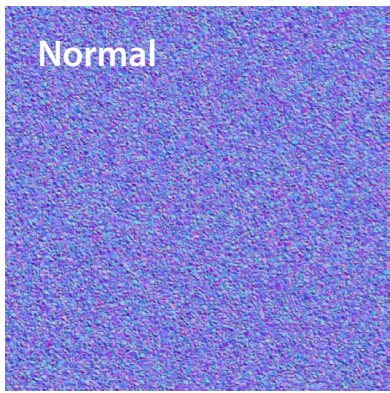
Base Maps

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

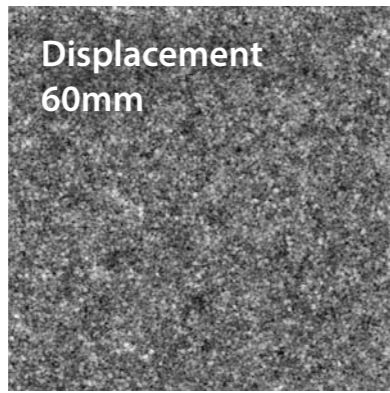
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

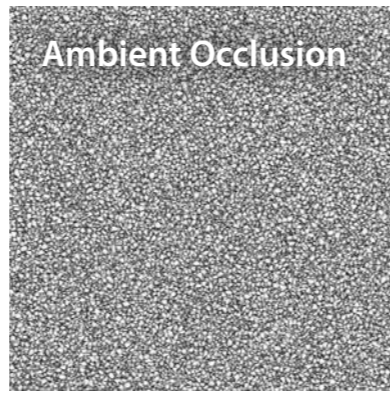




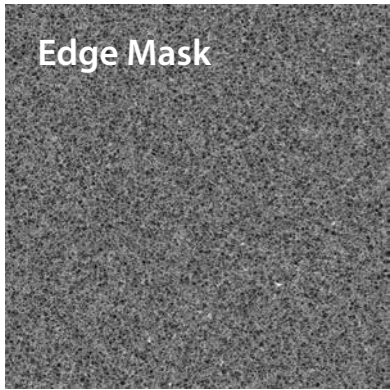
Normal



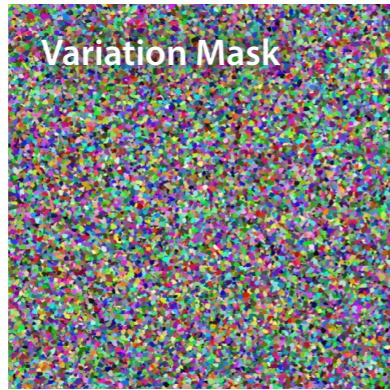
Displacement
60mm



Ambient Occlusion



Edge Mask

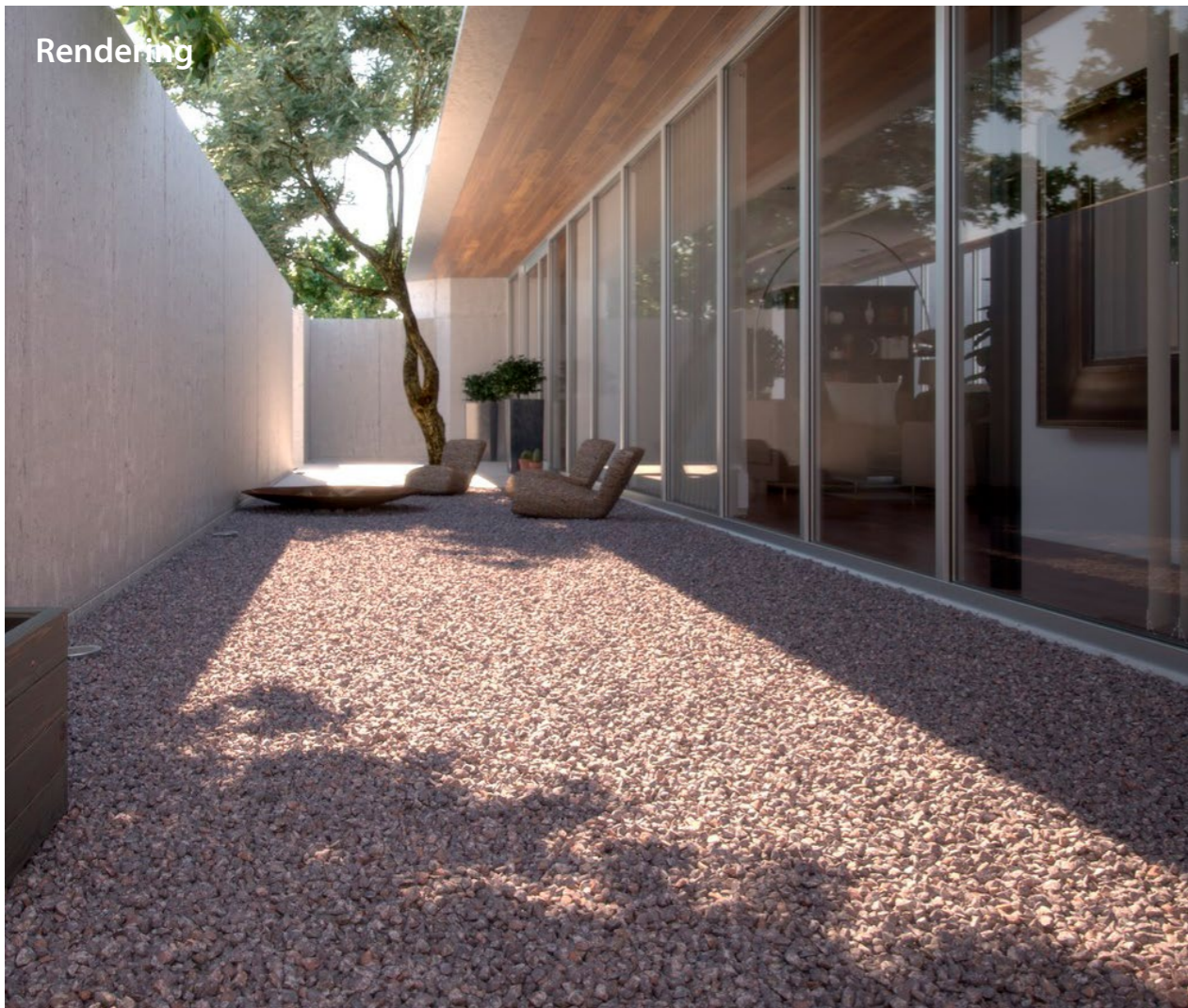


Variation Mask



Crushed 1 / gravel-base-10

Gravel Vol. 1 - Disk #1+3



Rendering



3D Meshes

2m: 2.0m x 2.0m | 8.0mio faces | 4.0mio verts

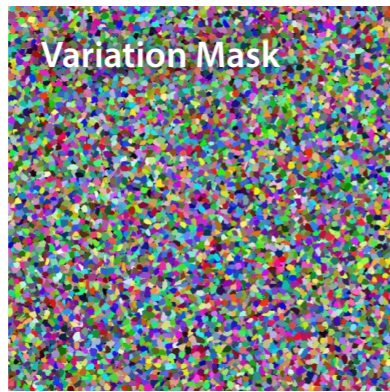
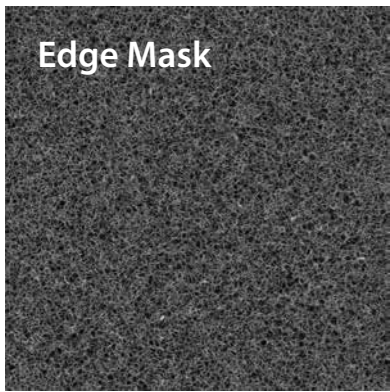
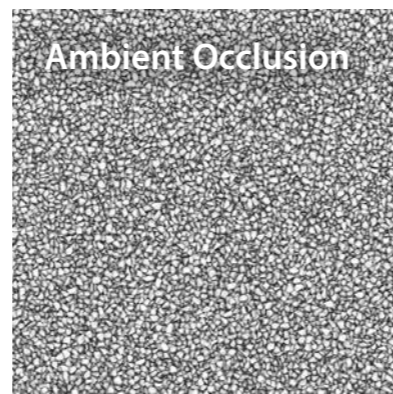
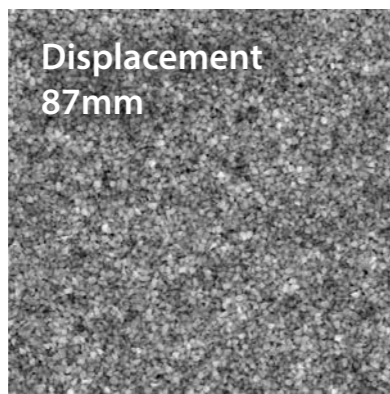
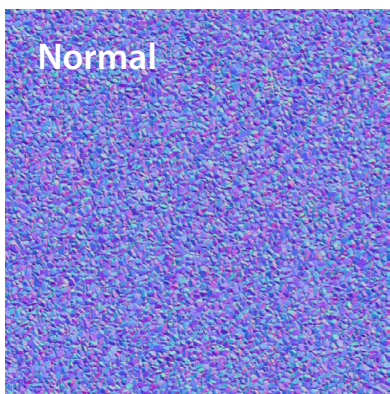
4m: 4.0m x 4.0m | 8.0mio faces | 4.0mio verts

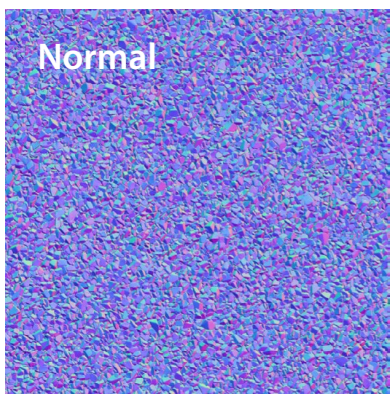
Base Maps

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

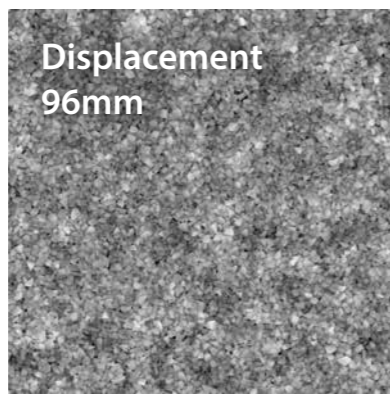
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

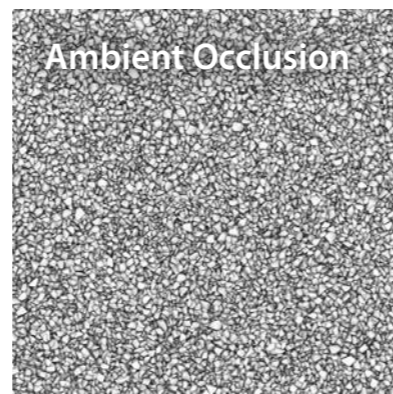




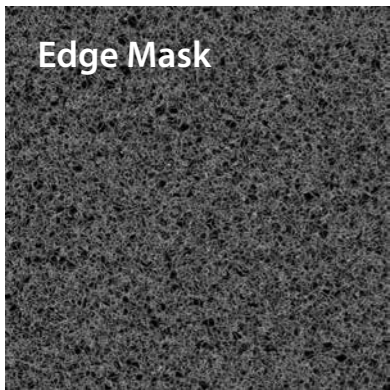
Normal



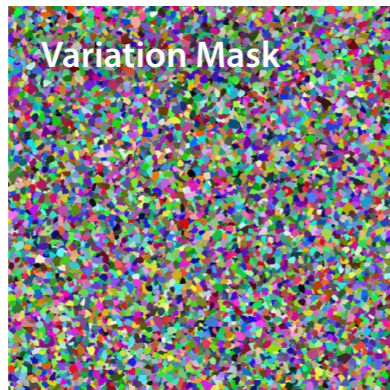
Displacement
96mm



Ambient Occlusion



Edge Mask

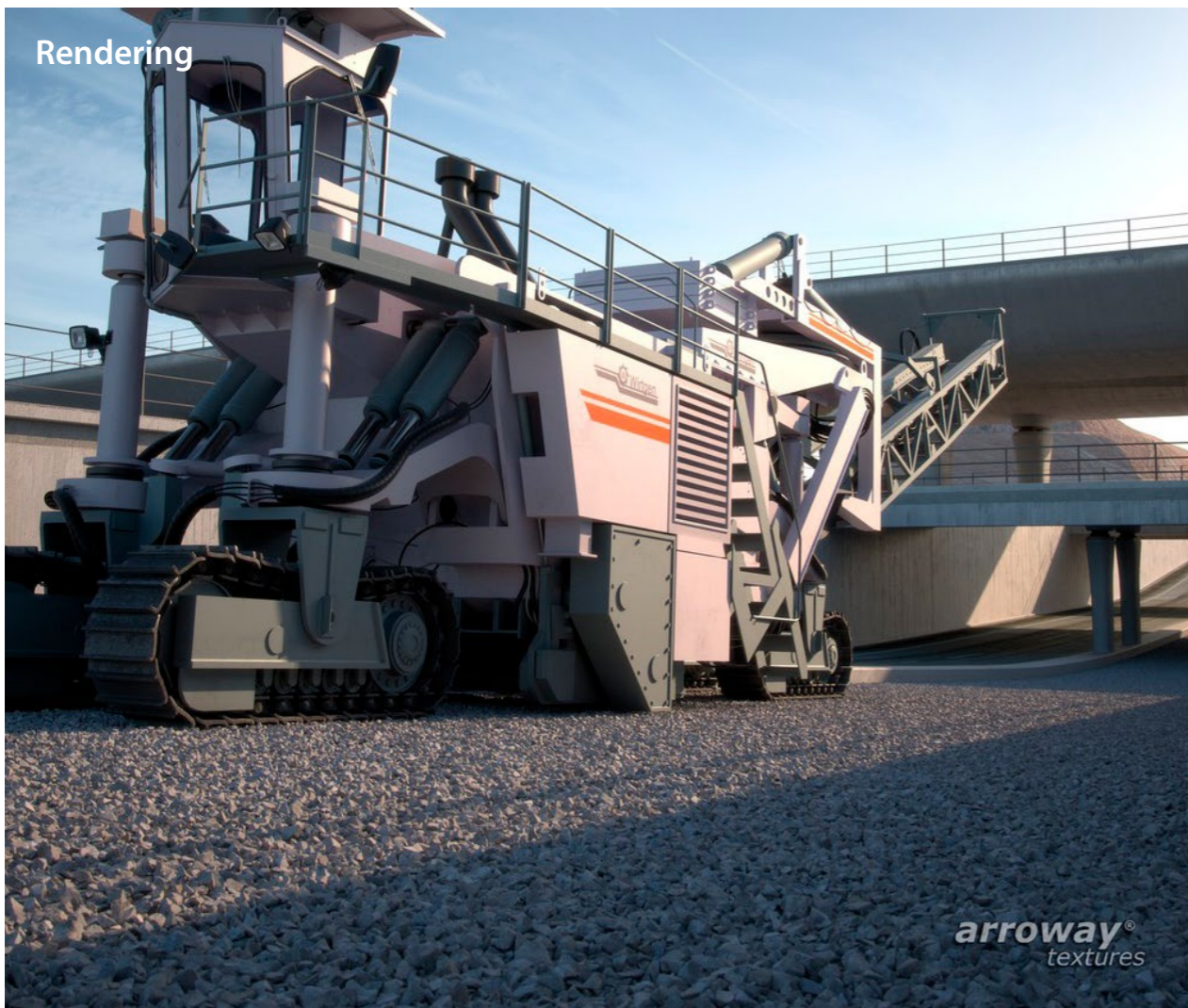


Variation Mask



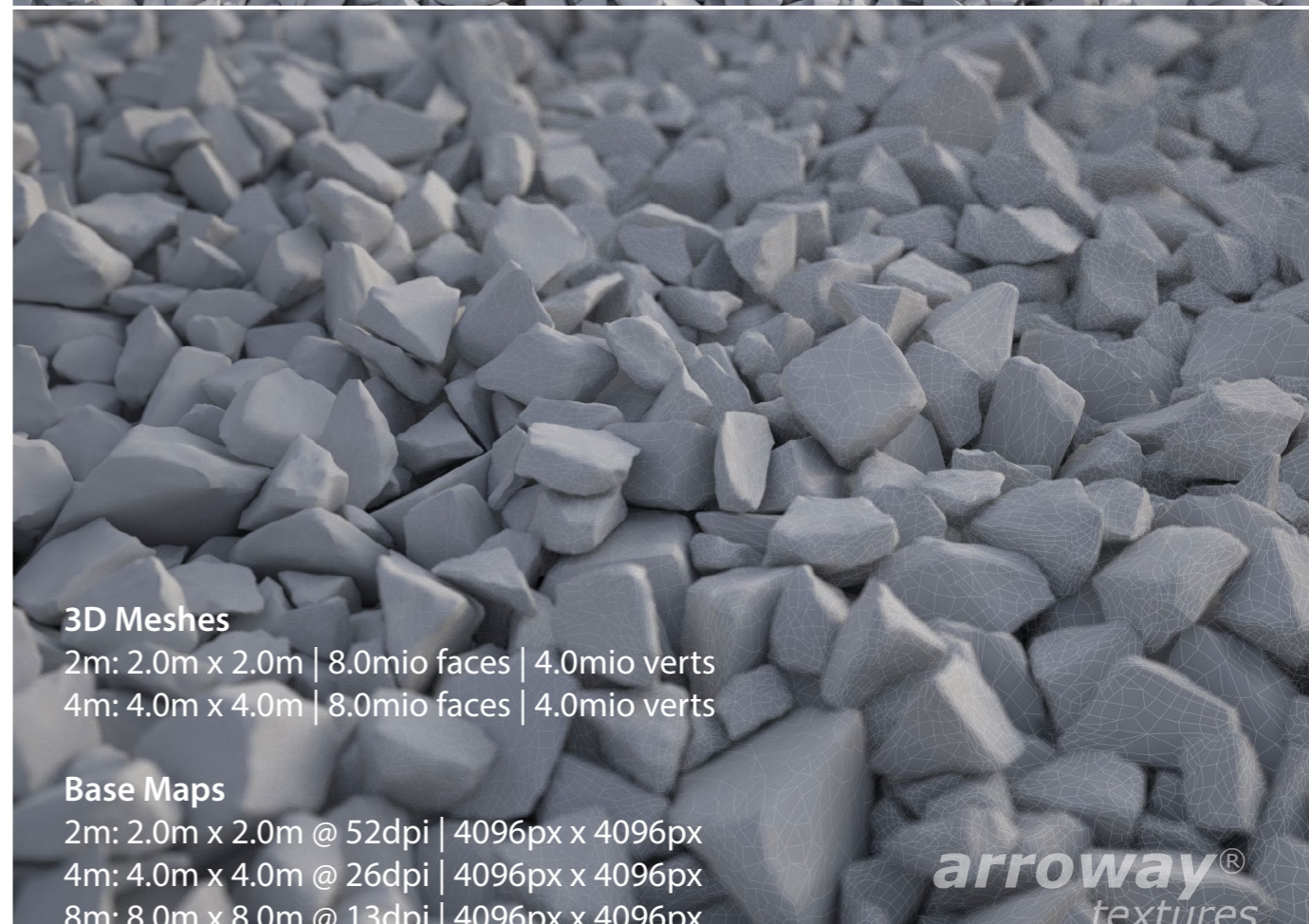
Crushed 3 / gravel-base-12

Gravel Vol. 1 - Disk #1+3



Rendering

arroway®
textures



3D Meshes

2m: 2.0m x 2.0m | 8.0mio faces | 4.0mio verts

4m: 4.0m x 4.0m | 8.0mio faces | 4.0mio verts

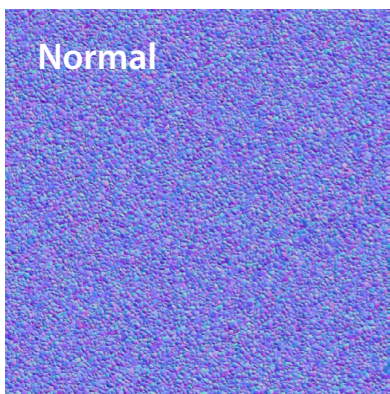
Base Maps

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

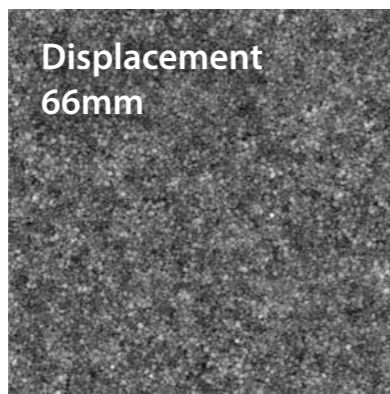
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

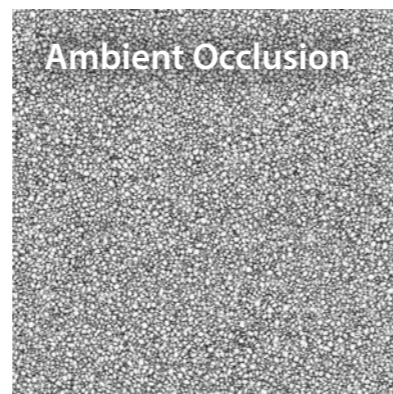
arroway®
textures



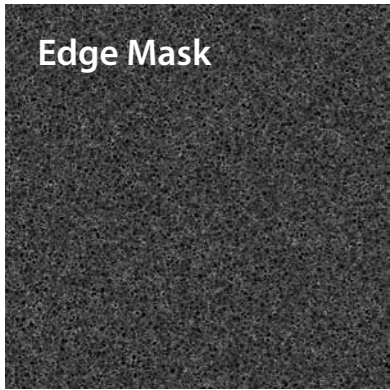
Normal



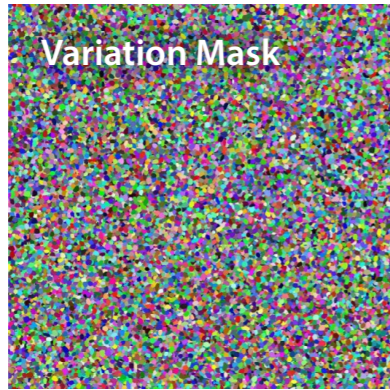
Displacement
66mm



Ambient Occlusion



Edge Mask

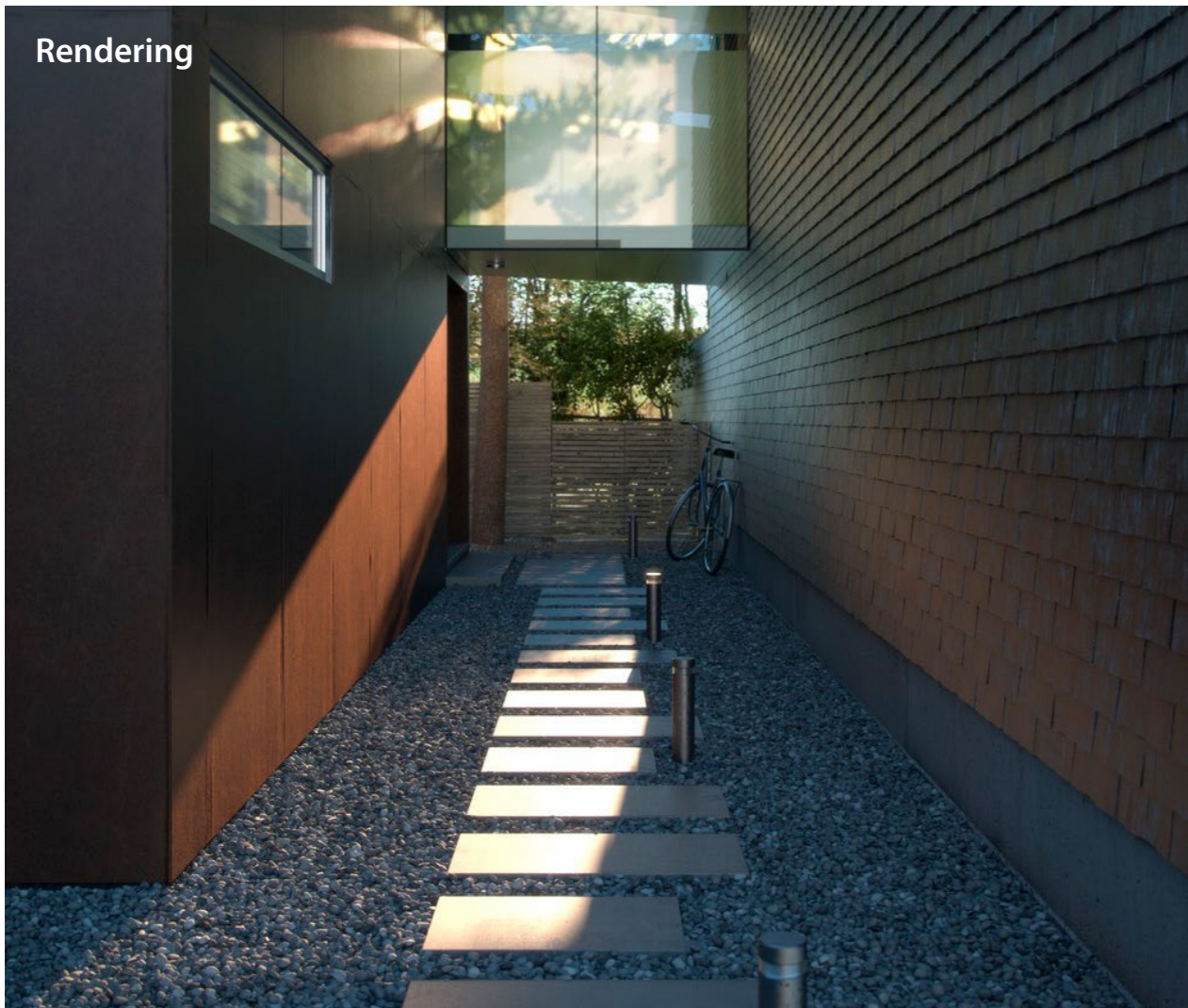


Variation Mask



Mixed 1 / gravel-base-13

Gravel Vol. 1 - Disk #1+3



Rendering



3D Meshes

2m: 2.0m x 2.0m | 8.0mio faces | 4.0mio verts

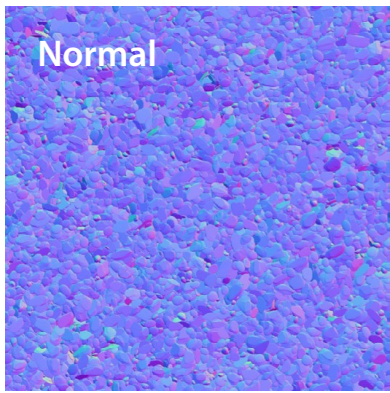
4m: 4.0m x 4.0m | 12.0mio faces | 6.2mio verts

Base Maps

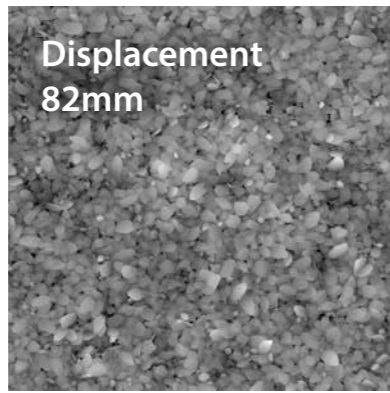
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

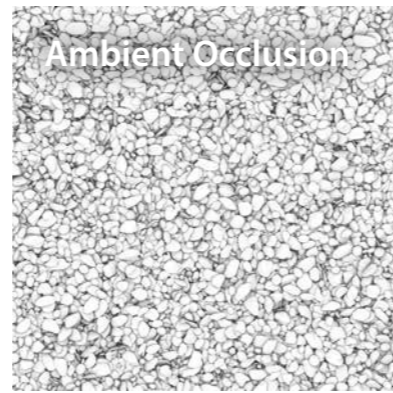
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px



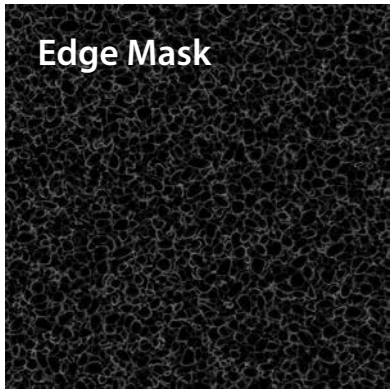
Normal



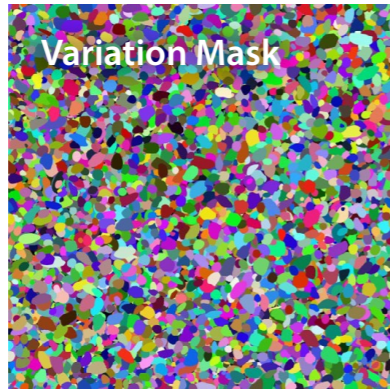
Displacement
82mm



Ambient Occlusion



Edge Mask



Variation Mask



Mixed 2 / gravel-base-14
Gravel Vol. 1 - Disk #1+3



Rendering

arroway[®]
textures



3D Meshes

2m: 2.0m x 2.0m | 7.8mio faces | 3.9mio verts

4m: 4.0m x 4.0m | 8.0mio faces | 4.0mio verts

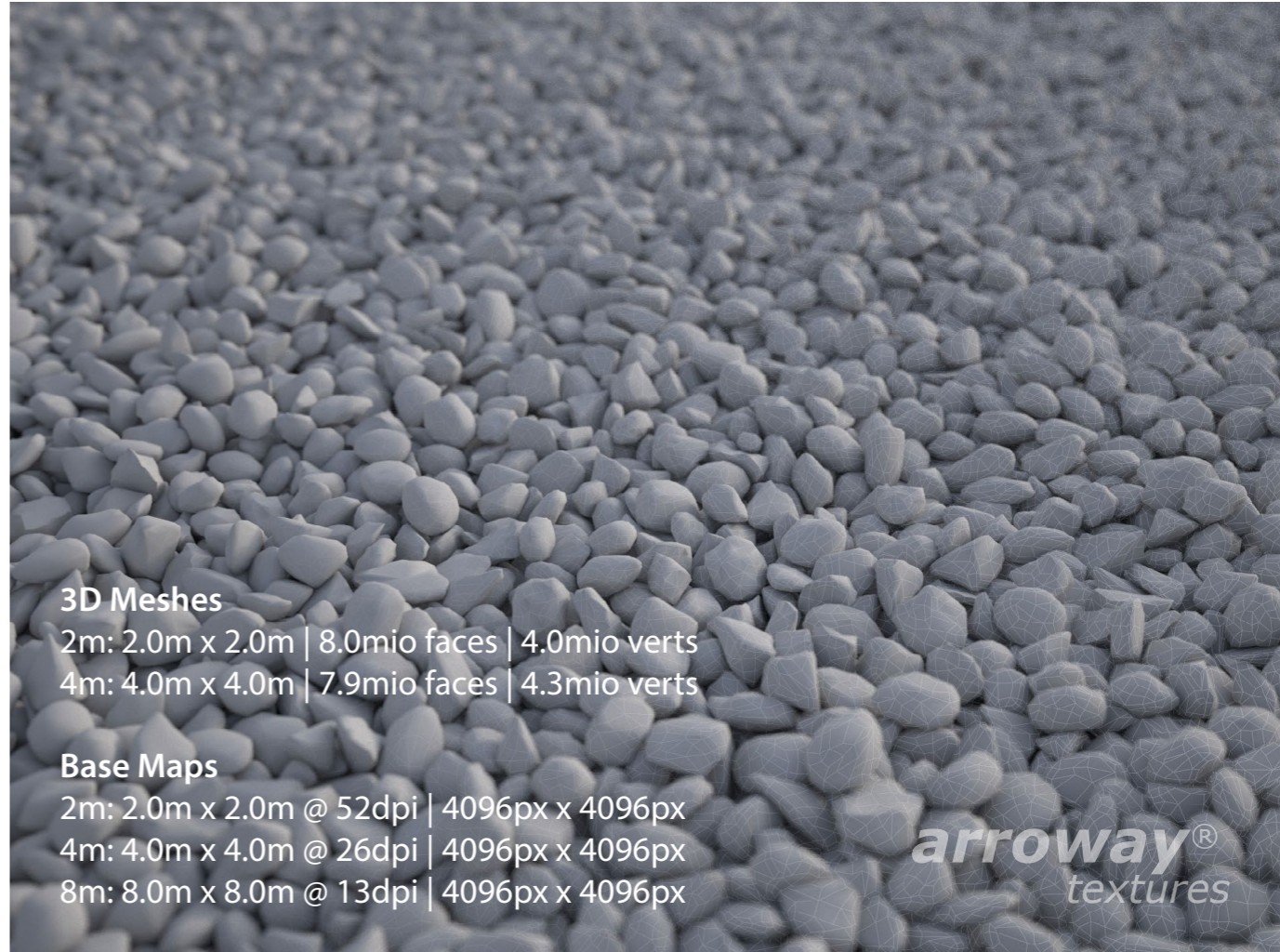
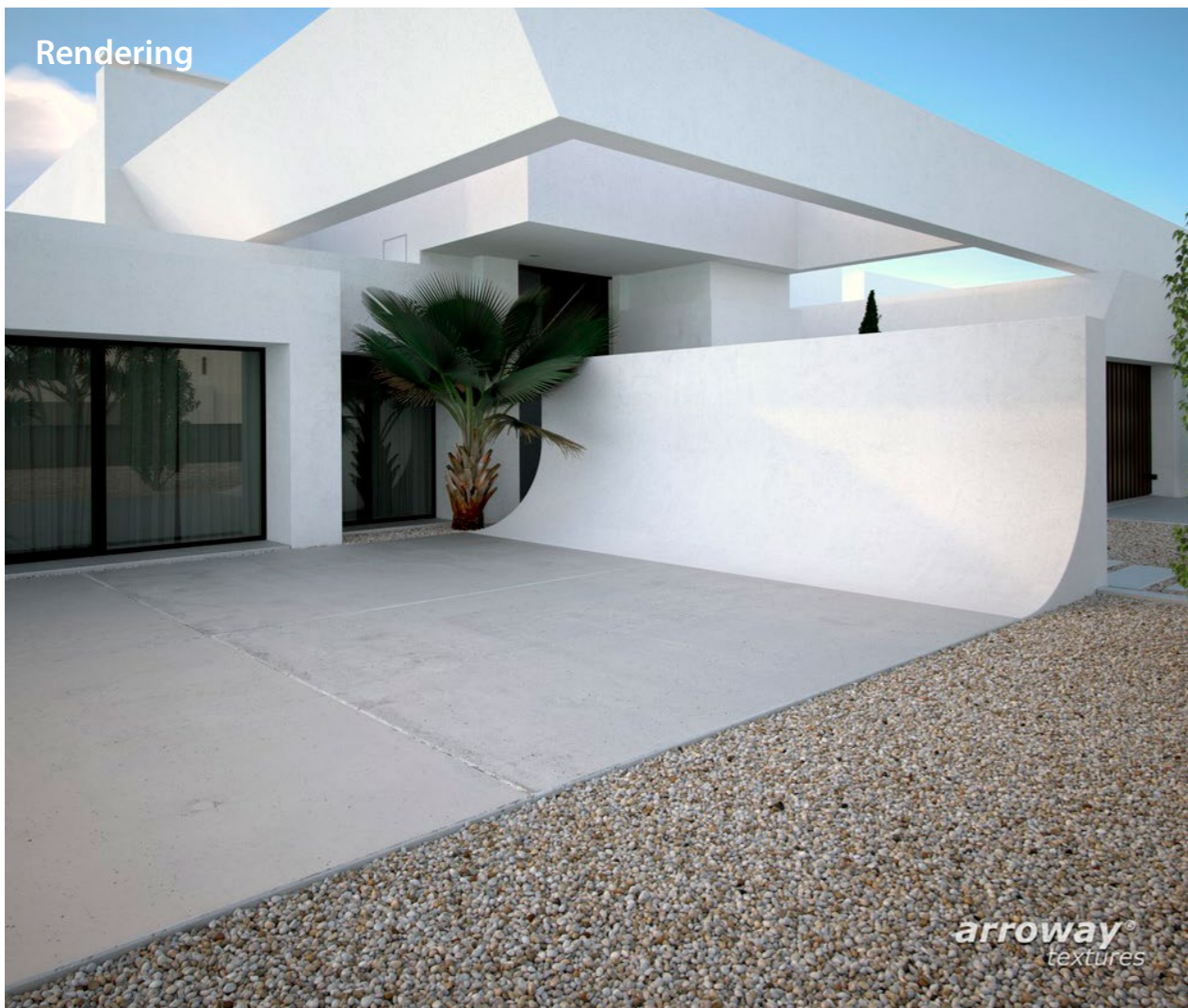
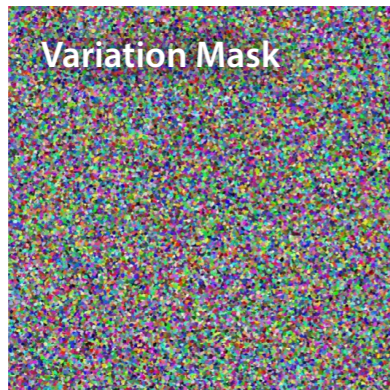
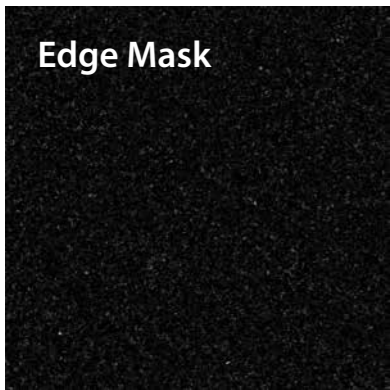
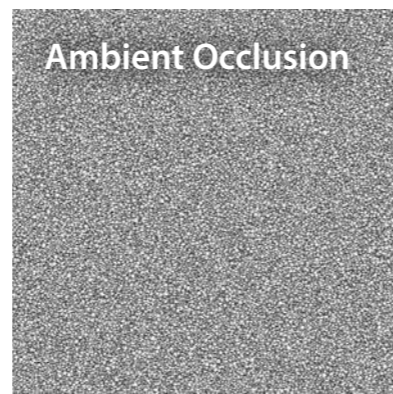
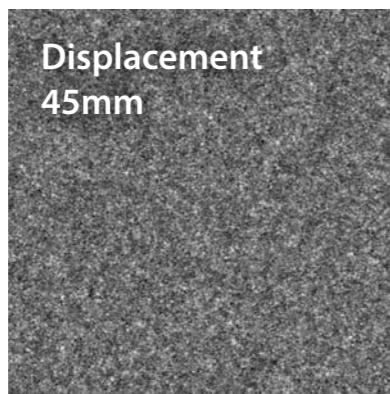
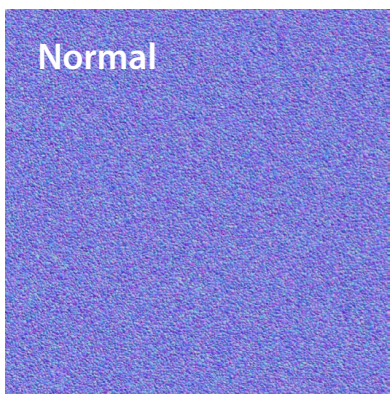
Base Maps

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures



Stone Textures



There are 94 distinct stone textures contained in this product (disks 4 to 6), plus 163 color variations, making for a total of 257 different styles.

These stone textures are meant to be used in conjunction with the 3D gravel meshes to produce a large variety of highly realistic gravel styles. Of course you can also use them for other purposes.

Details

Inherent Variation

Each stone texture has been created so that its inherent variation in surface texture and color mirrors the variability of the whole gravel surface.

Because random UV coordinates have been assigned to each individual pebble, different parts of the stone texture will be randomly applied to the pebbles of the gravel mesh when rendering.

Customizable

You are of course not limited to the set of stone textures included in this product. You can very easily modify these textures to achieve a special look you want, or even create your own stone textures. Because the UV coordinates of the gravel mesh respect texture edges, these stone textures do not have to be tilable.

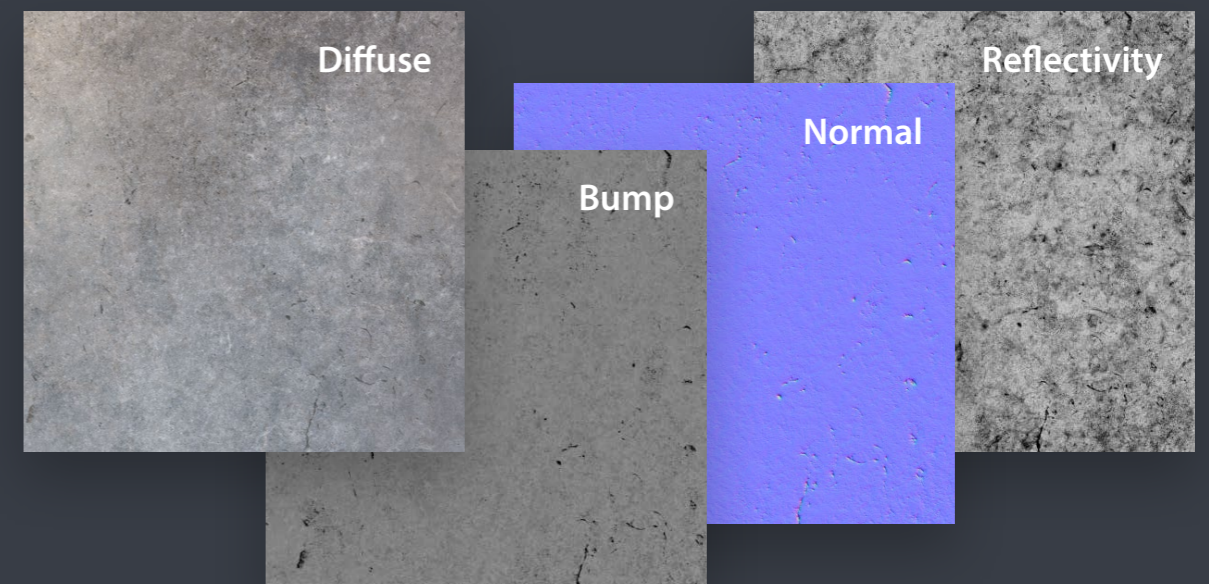
Specifications

Each stone texture has a real-world scale of 50cm x 50cm at a resolution of 4096px x 4096px and consists of

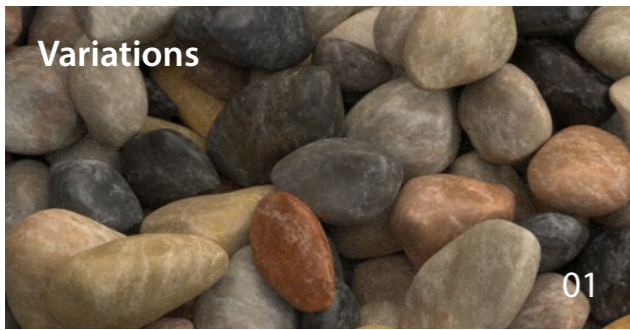
- Diffuse map, i.e. the color information; often in different variations
- Bump map, containing fine surface details
- Normal map, containing medium to small scale surface details
- Reflectivity map, describing the reflectivity of the stone

Ready-To-Use Materials

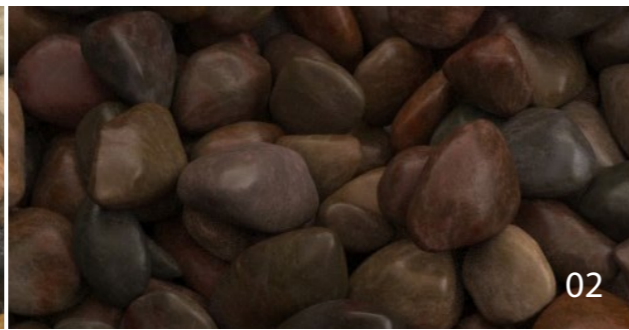
As with the gravel textures, we provide ready-to-use material setups for 3DS Max™ 2010+, as well as MaxwellRender™ (2.x).



Variations



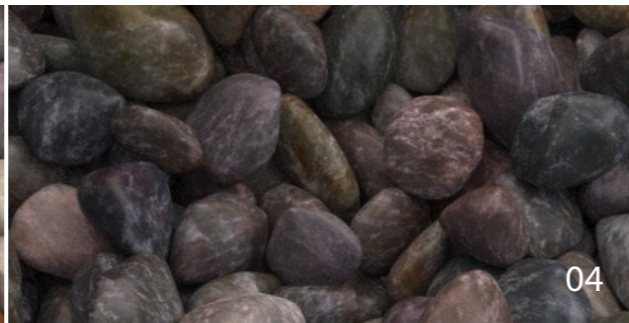
01



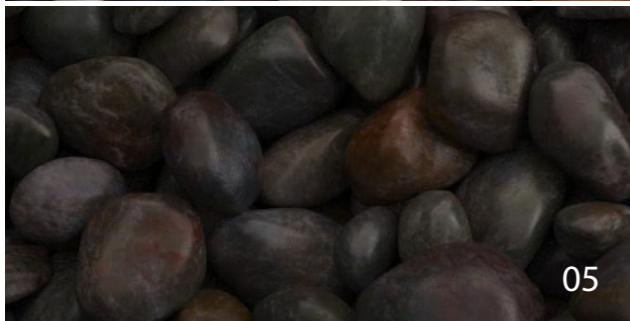
02



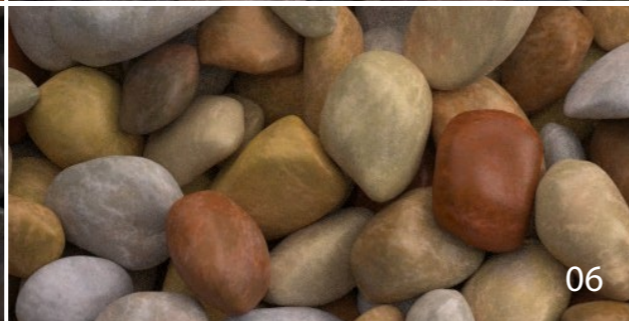
03



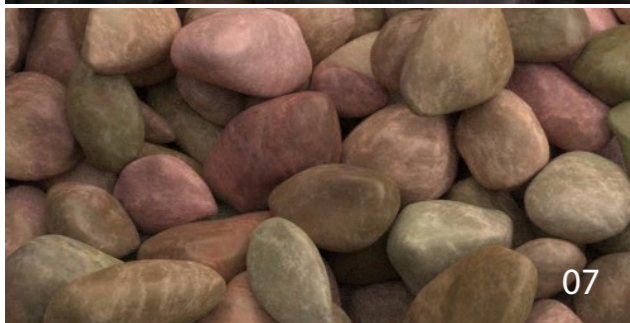
04



05



06



07



08



09



10



11



12

gravel-stone-001

Gravel Vol. 1 - Disk #4



Dry

Wet

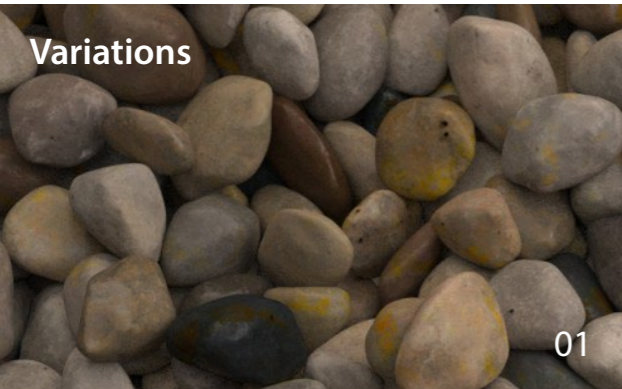
Map



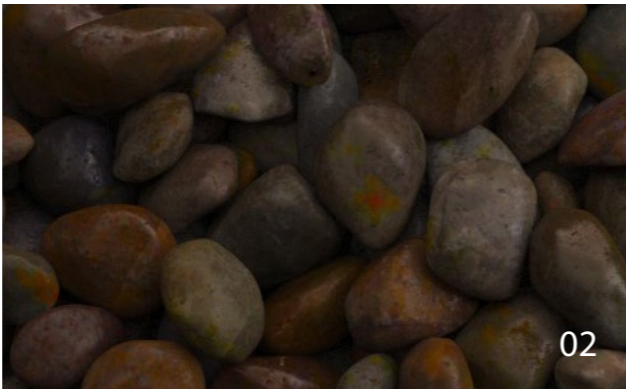
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03



04



05



06



07



08



09



10

gravel-stone-002

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

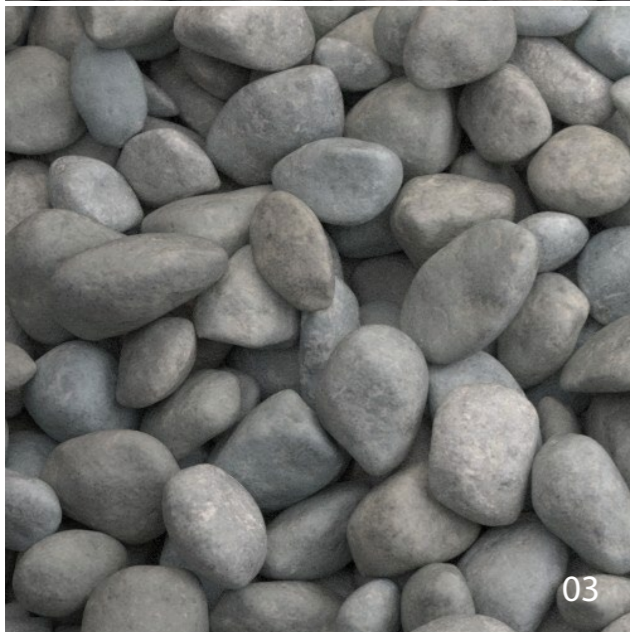
Variations



01



02



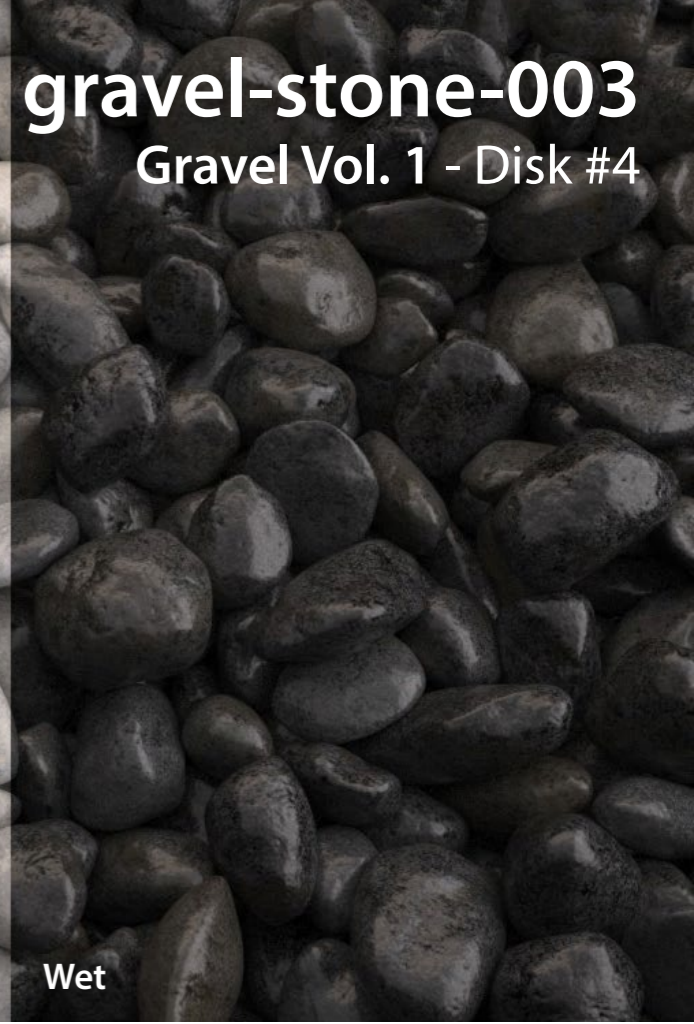
03

gravel-stone-003

Gravel Vol. 1 - Disk #4



Dry

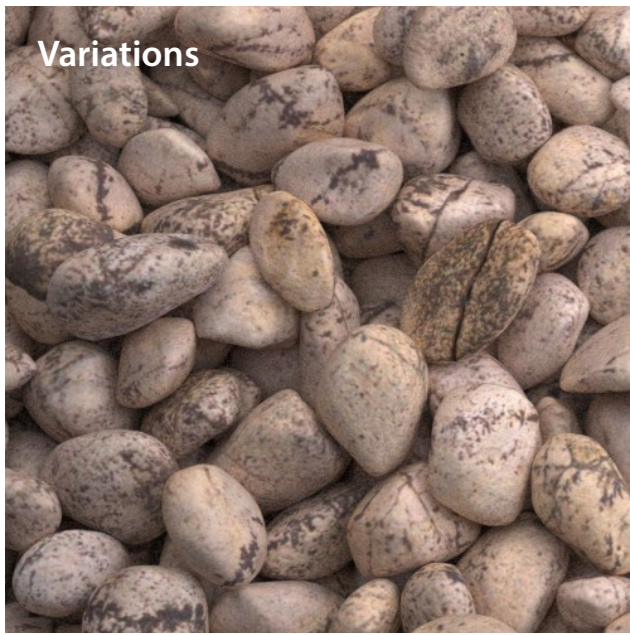


Wet

Map

0.5m x 0.5m @ 208dpi | 4096px x 4096px

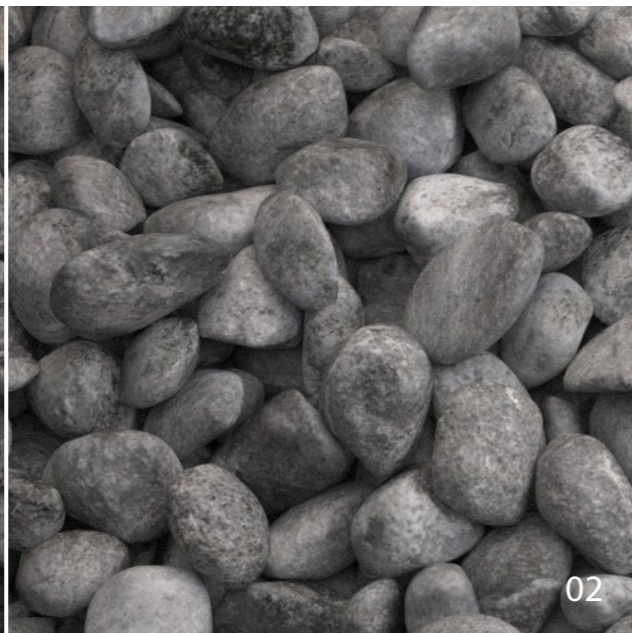
arroway®
textures



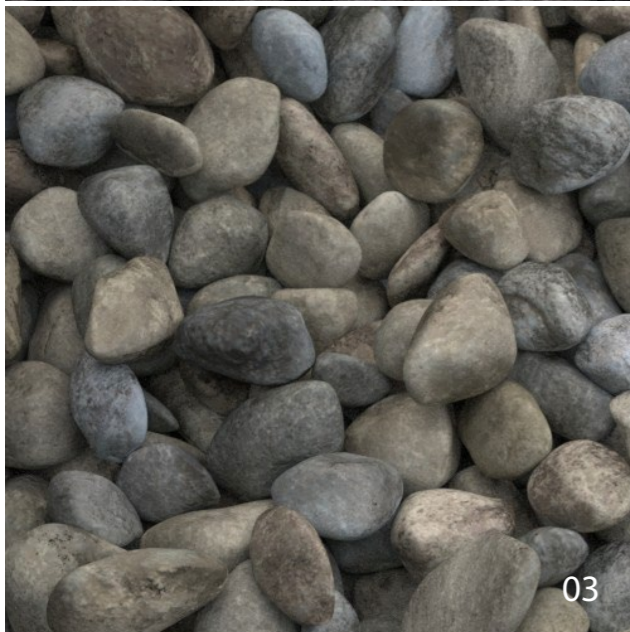
Variations



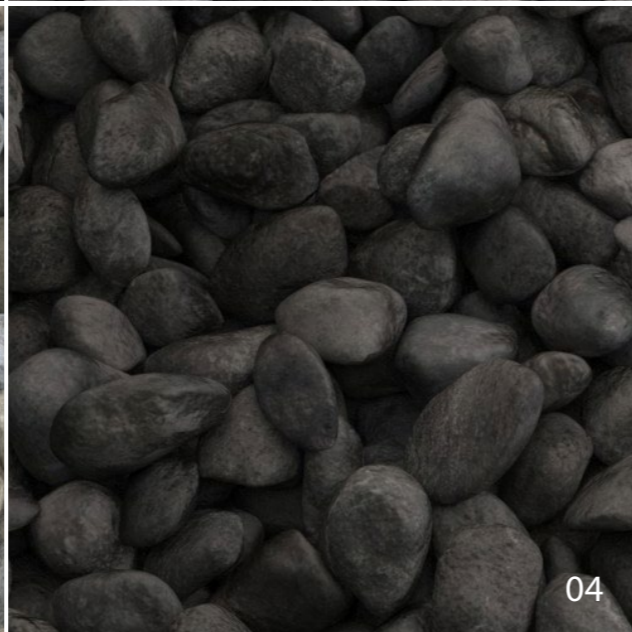
01



02



03



04

gravel-stone-005

Gravel Vol. 1 - Disk #4



Dry

Wet

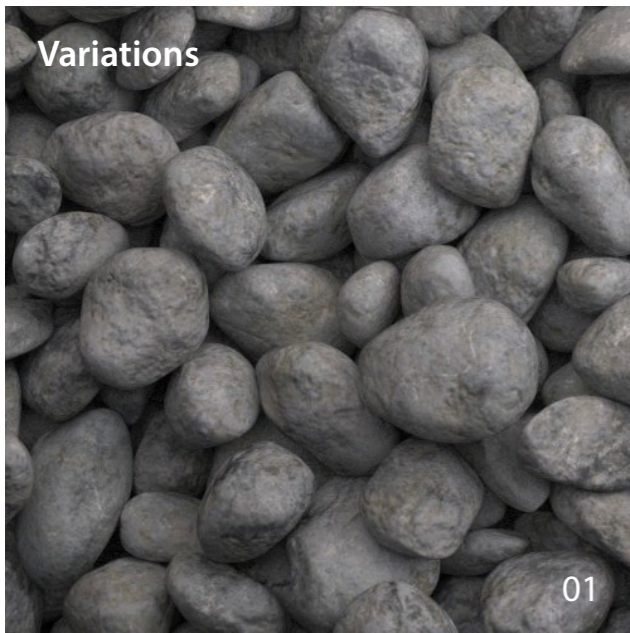
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-006

Gravel Vol. 1 - Disk #4



Dry

Wet

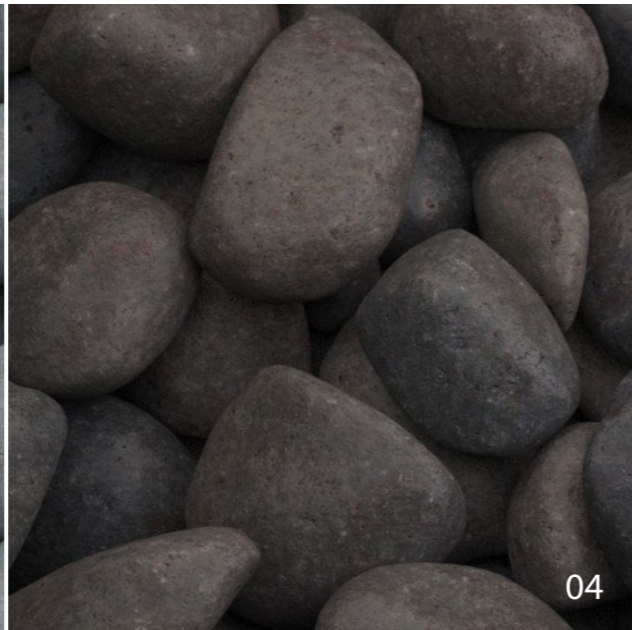
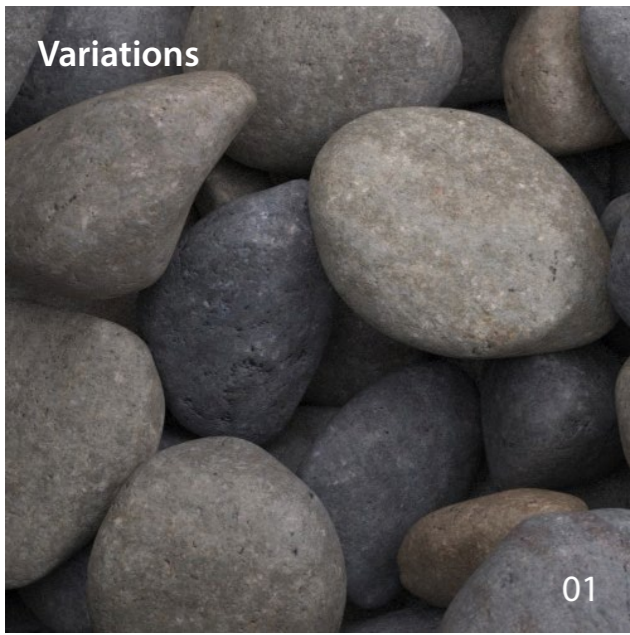
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-007

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-008

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-009

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-010

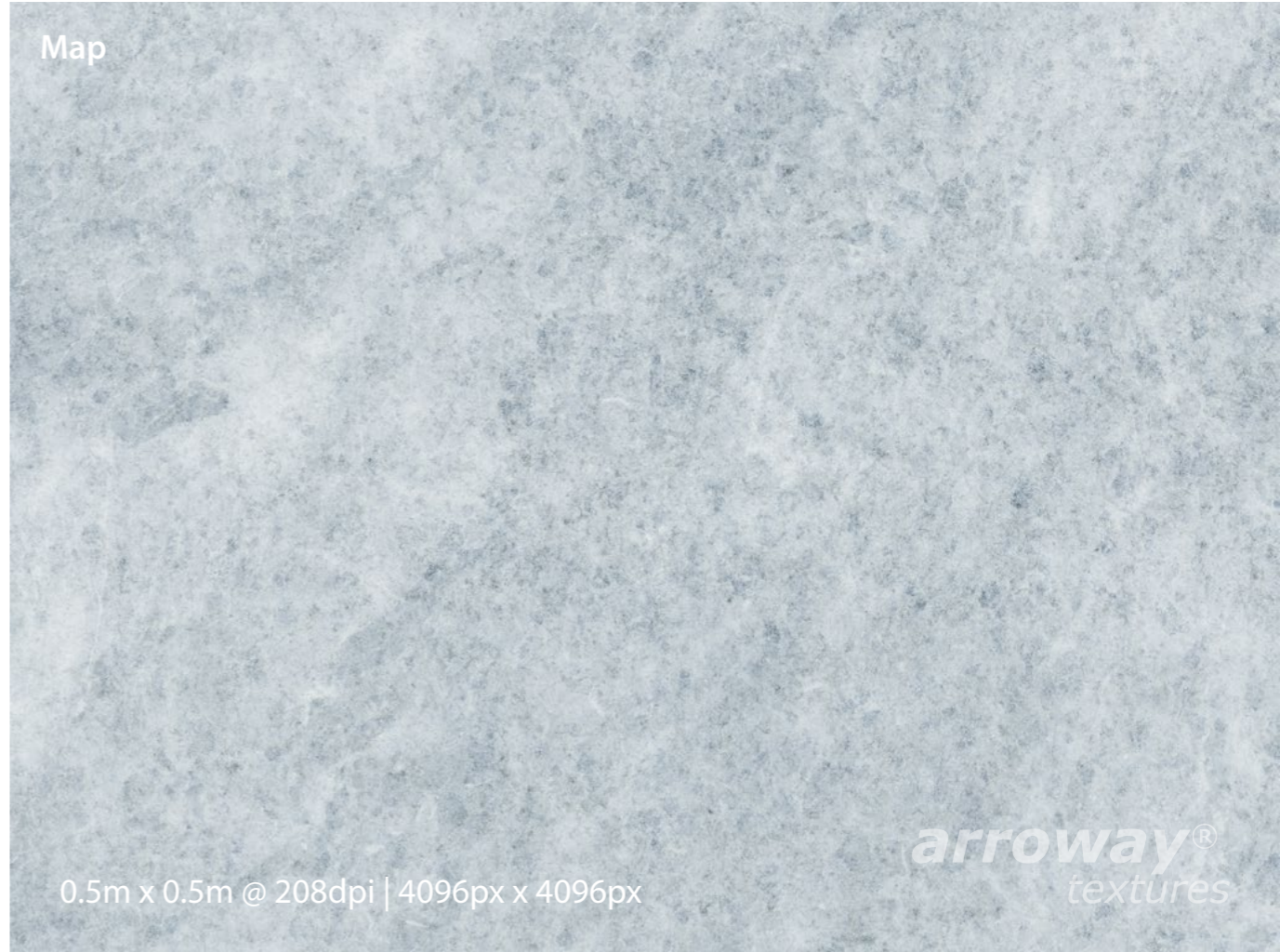
Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-011

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-012

Gravel Vol. 1 - Disk #4



Dry

Wet

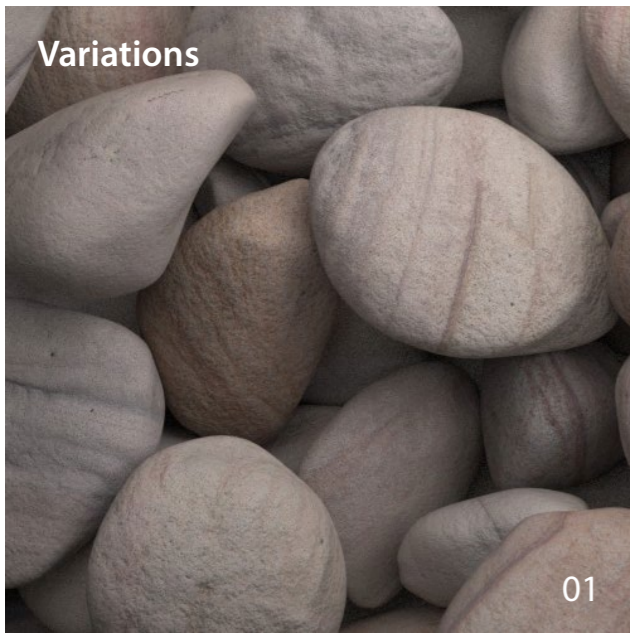
Map



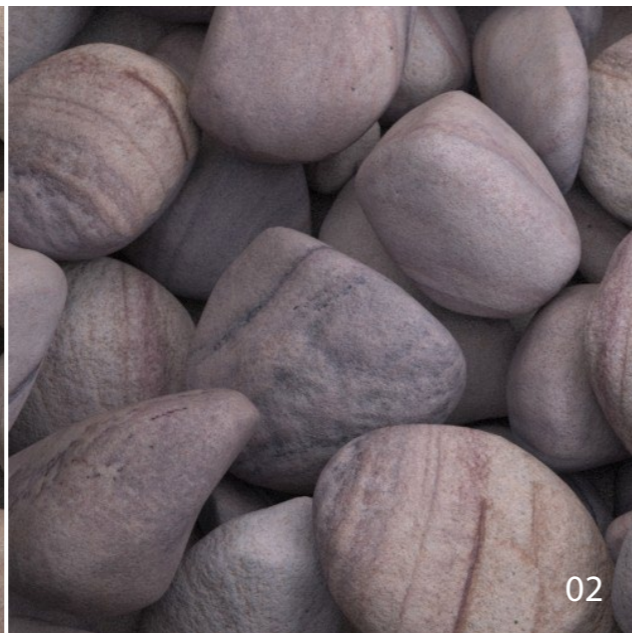
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

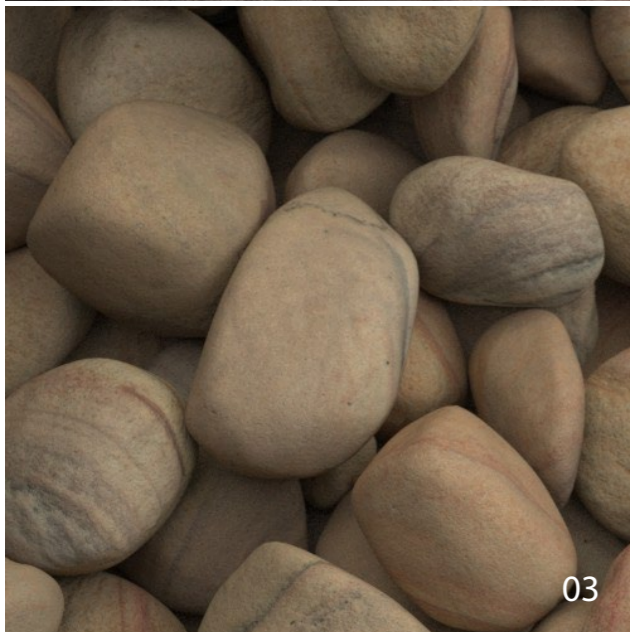
Variations



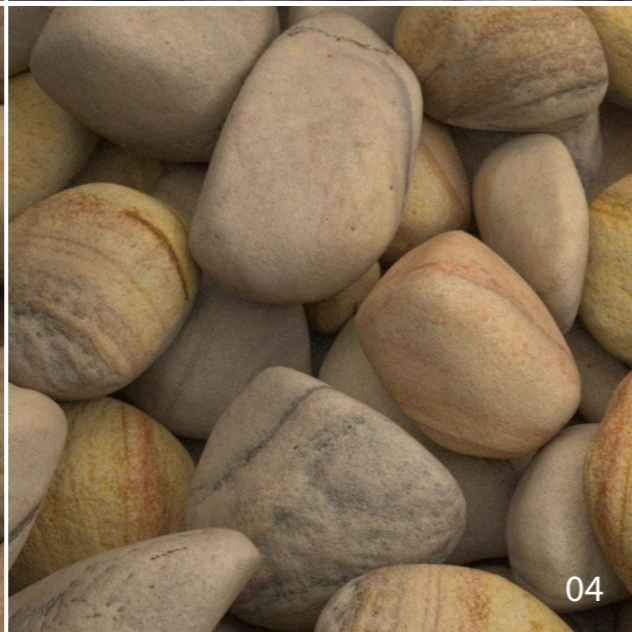
01



02



03



04

gravel-stone-013

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

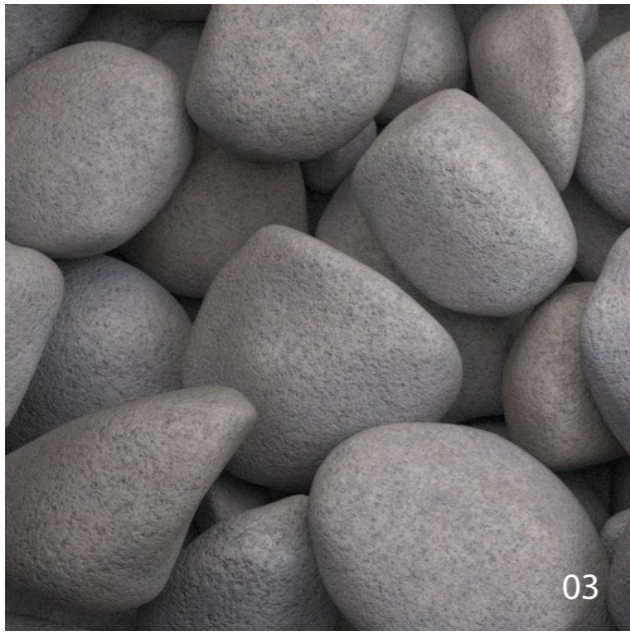
Variations



01



02



03

gravel-stone-014

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

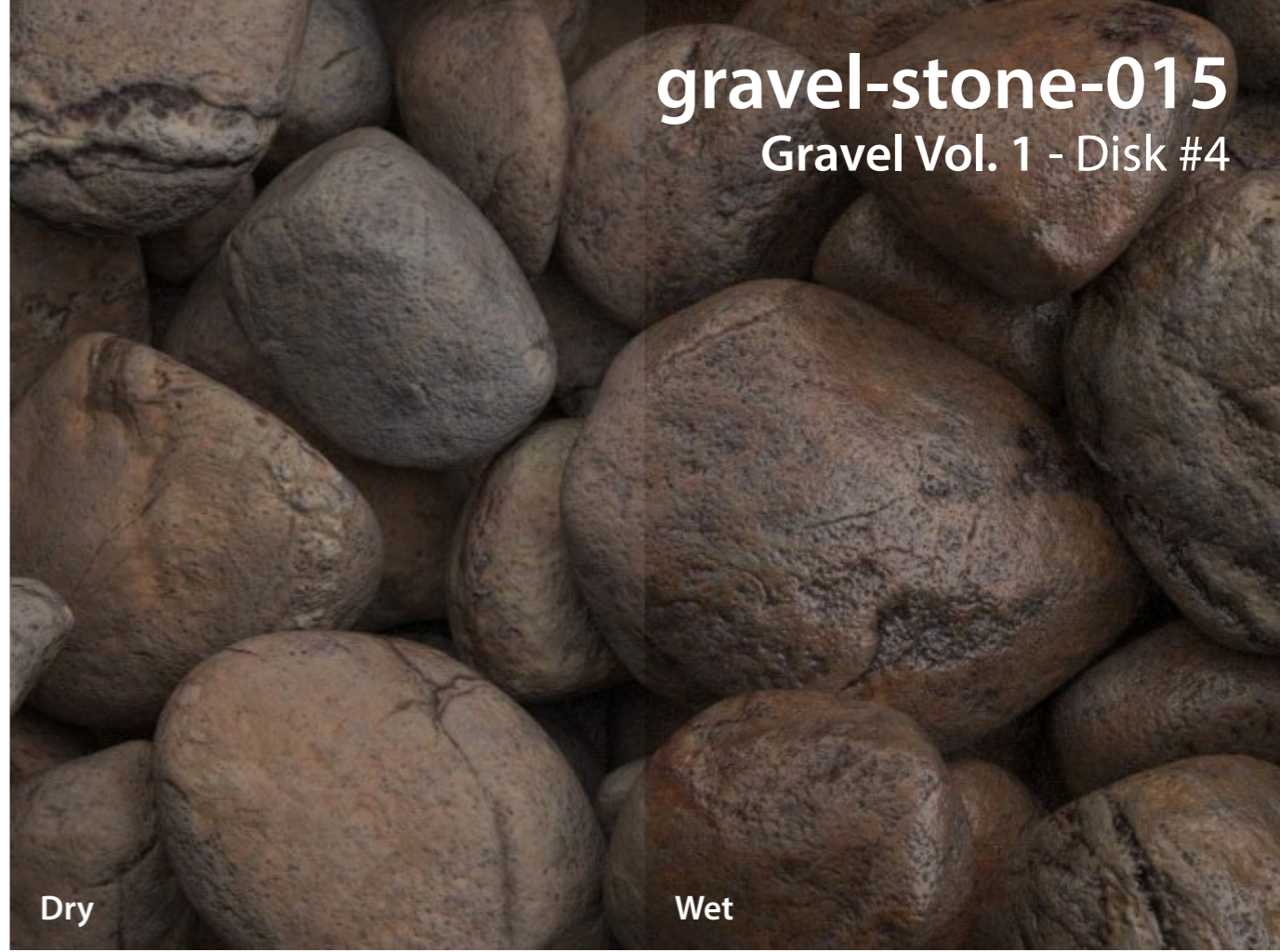
arroway®
textures

Variations



gravel-stone-015

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-016

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



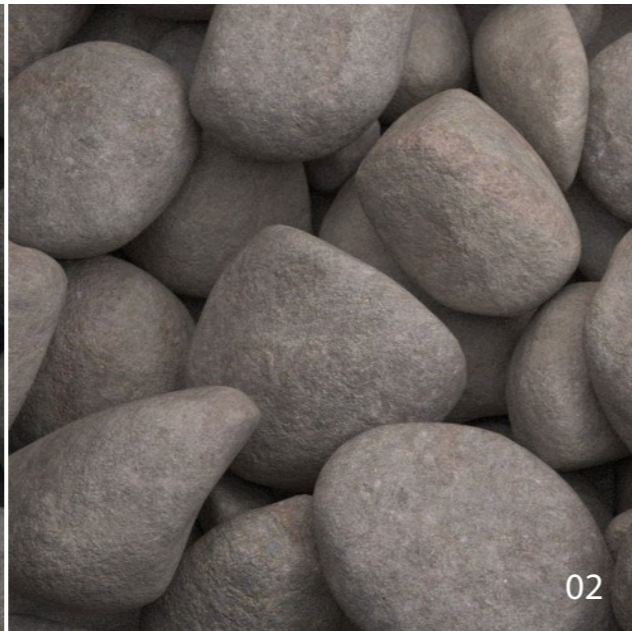
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



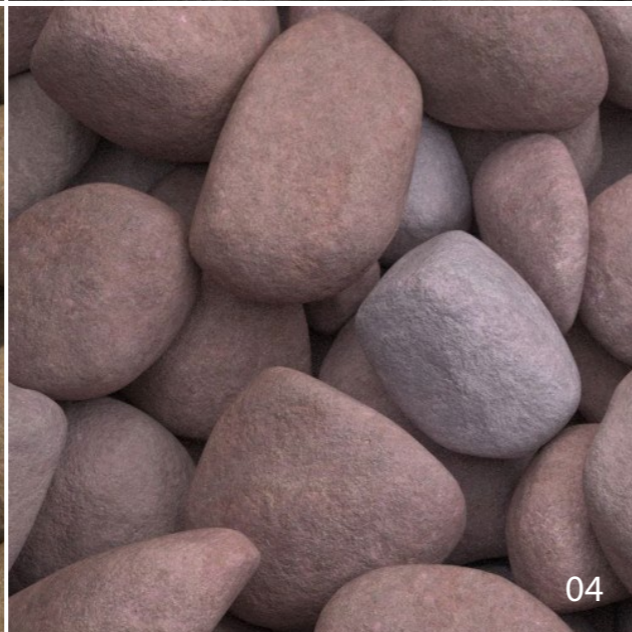
01



02



03



04

gravel-stone-017

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



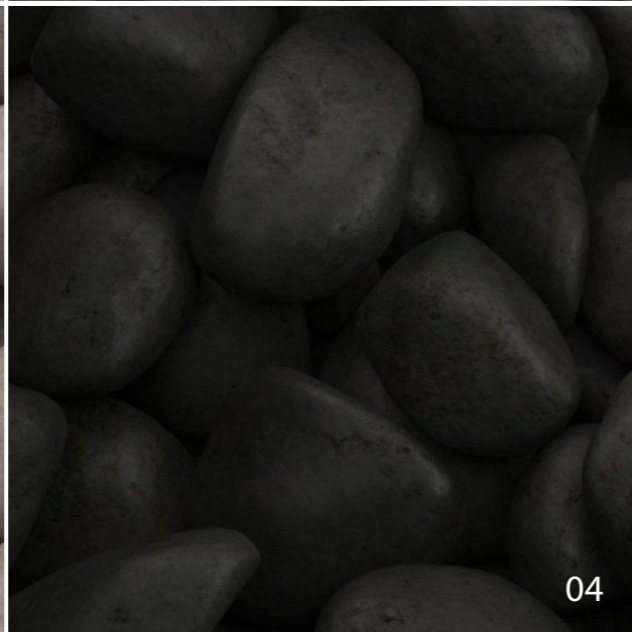
01



02



03



04

gravel-stone-018

Gravel Vol. 1 - Disk #4



Dry

Wet

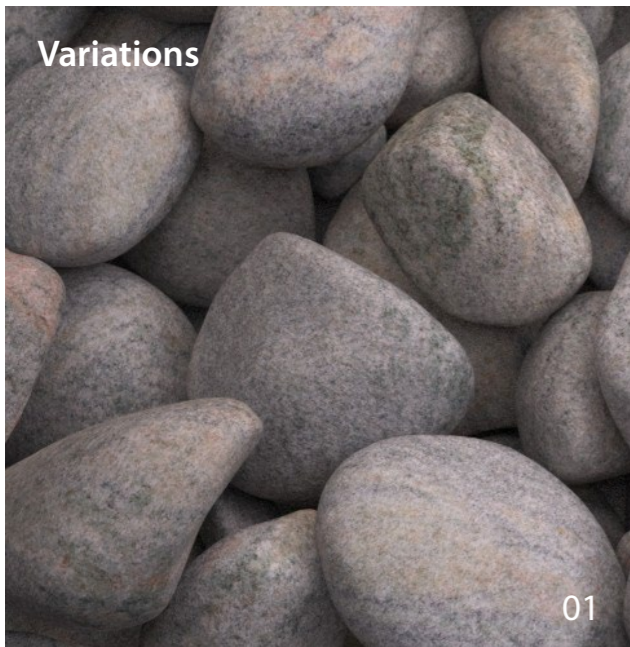
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

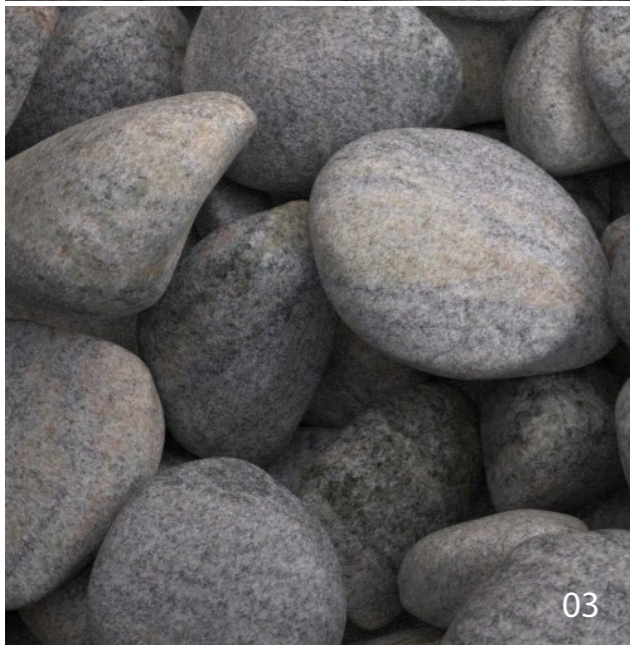
Variations



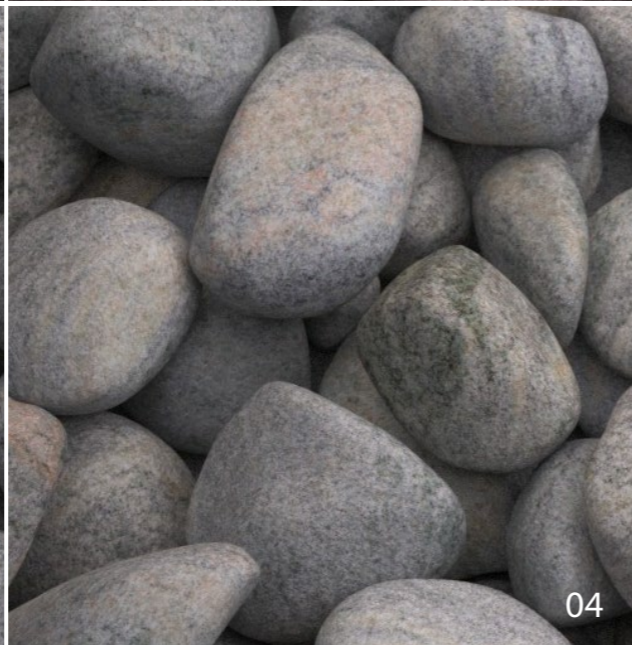
01



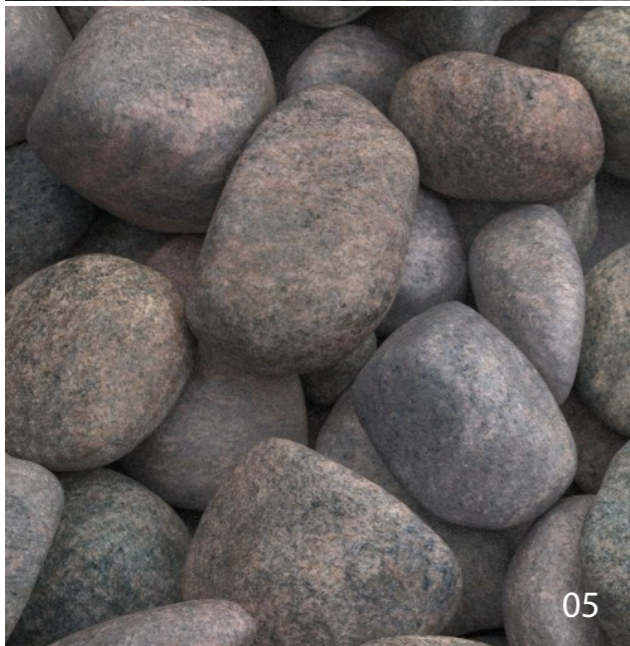
02



03



04



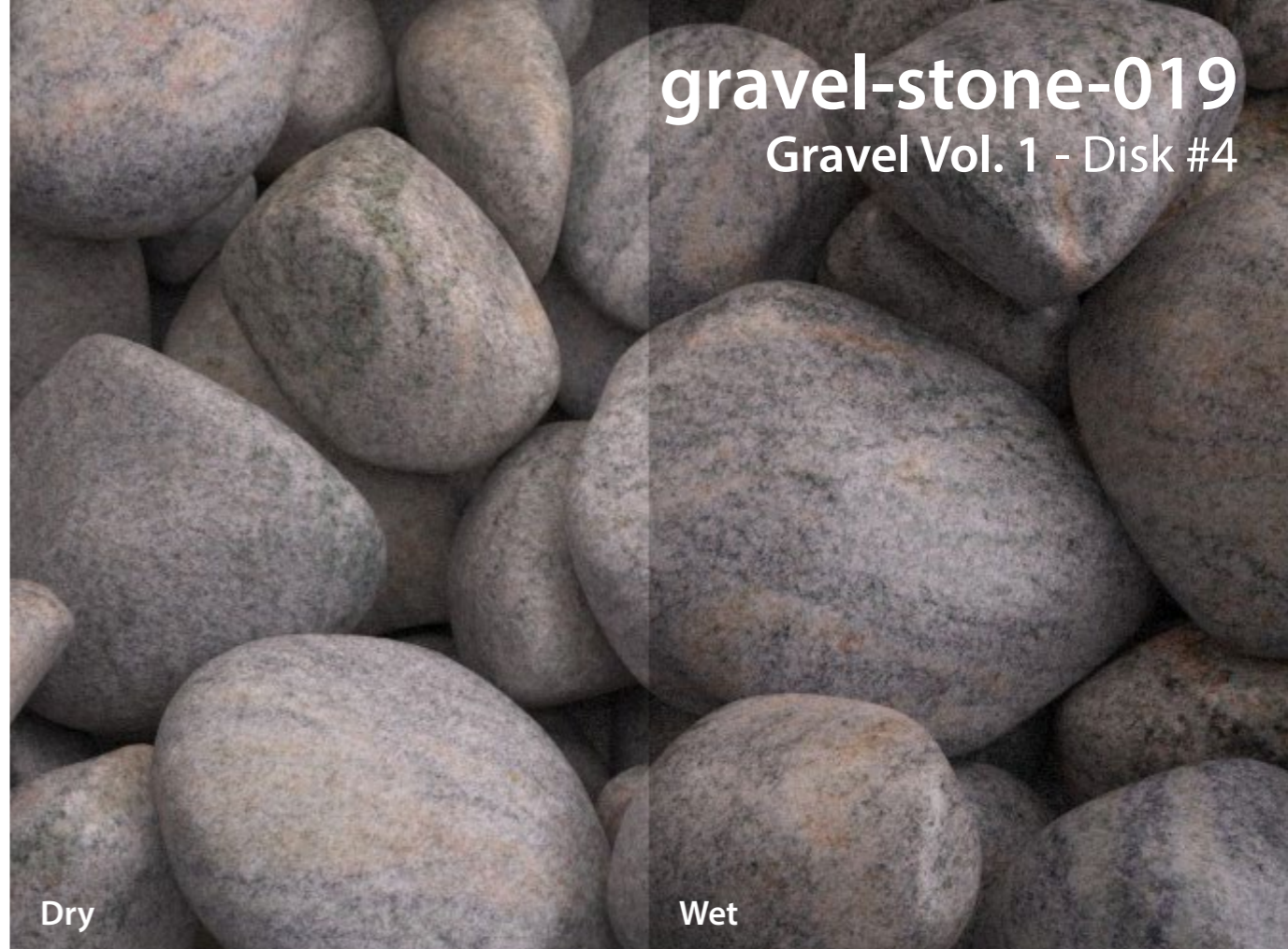
05



06

gravel-stone-019

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



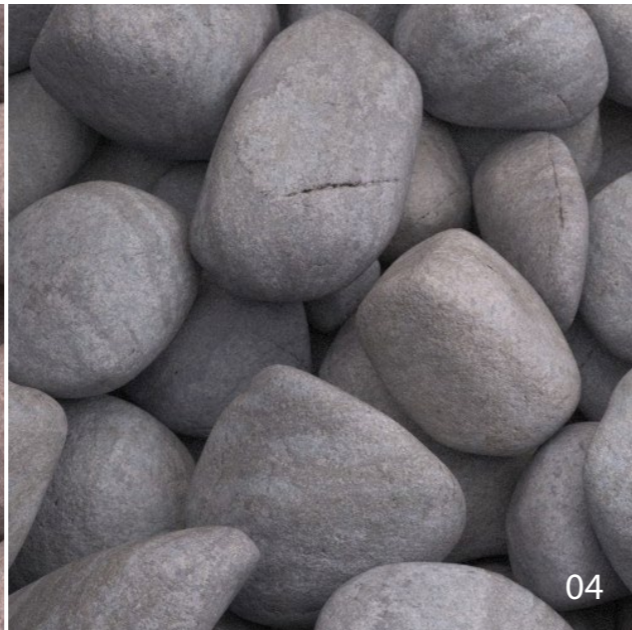
01



02



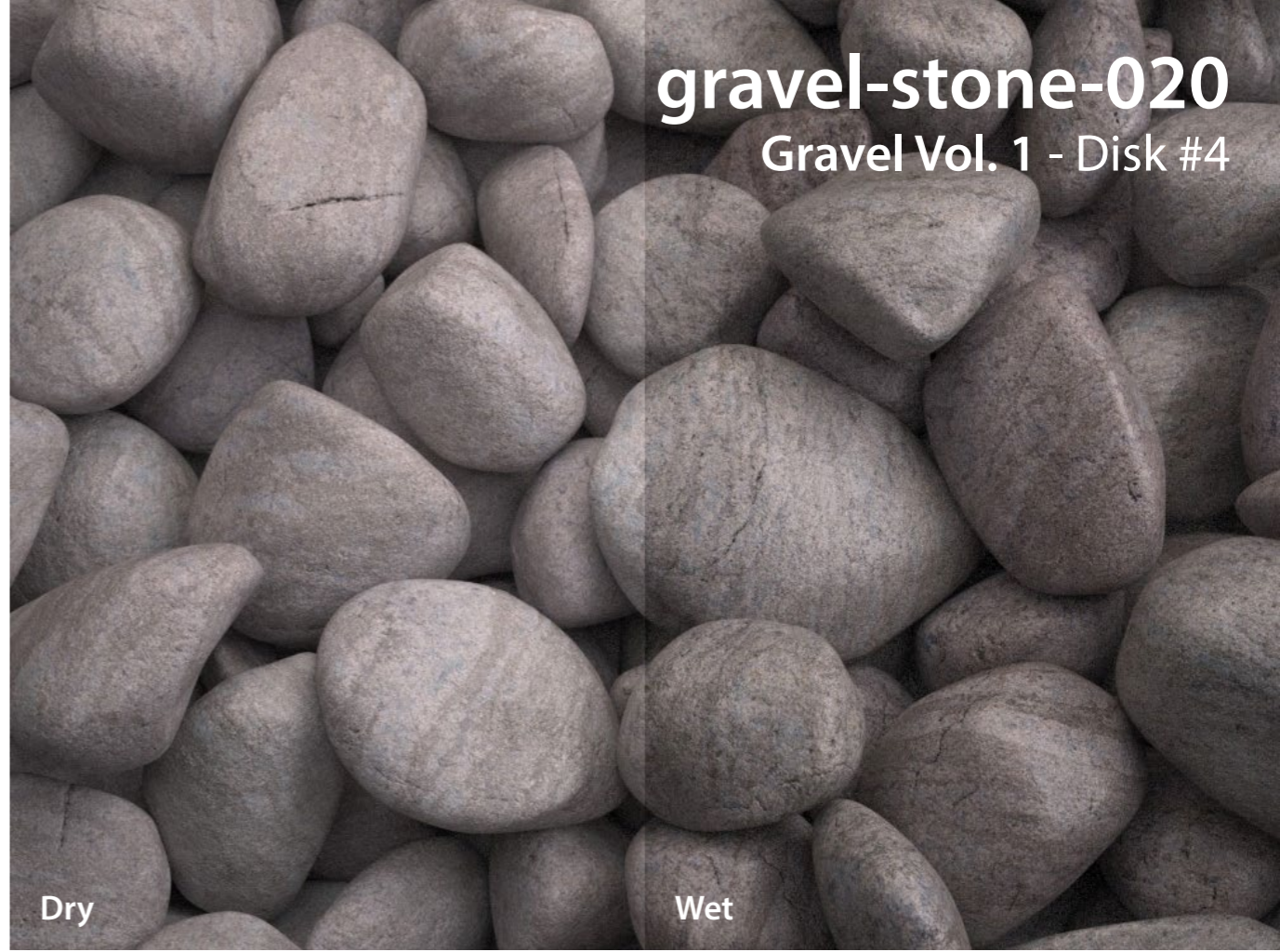
03



04

gravel-stone-020

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



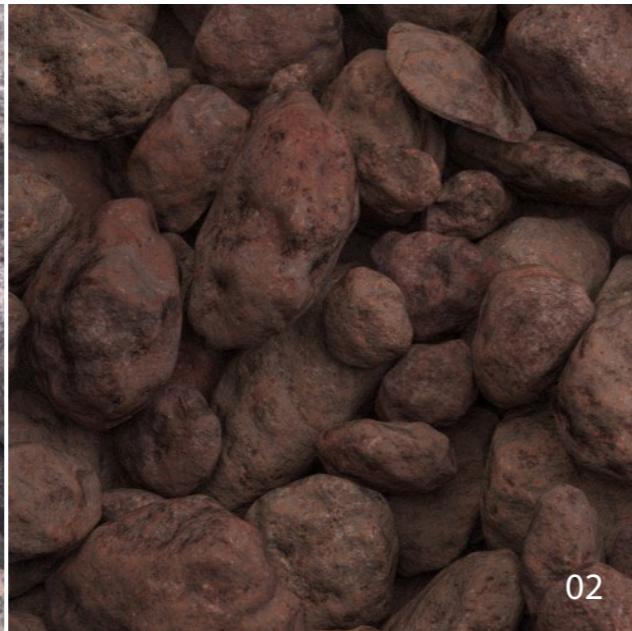
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-021

Gravel Vol. 1 - Disk #4



Dry

Wet

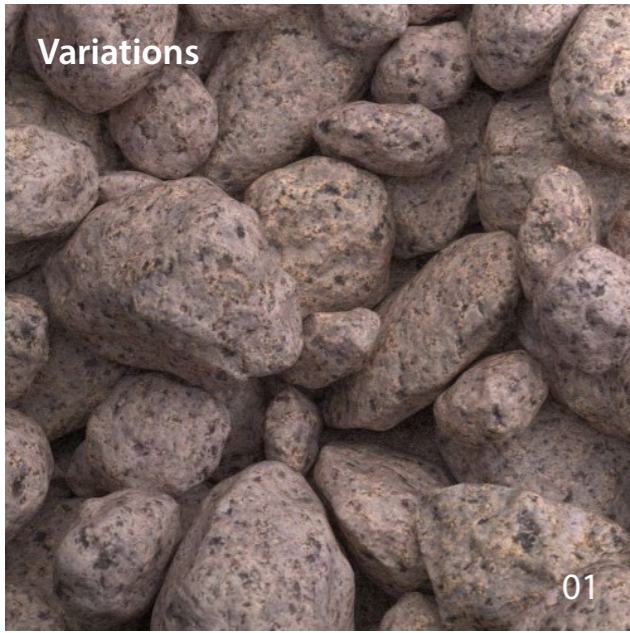
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-022

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-023

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

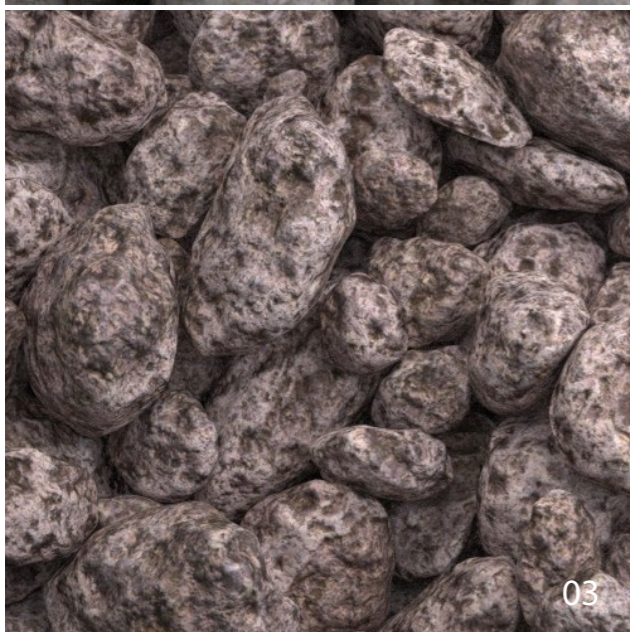
Variations



01



02



03

gravel-stone-024

Gravel Vol. 1 - Disk #4



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-025

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02



03



04



05



06



07

gravel-stone-026

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

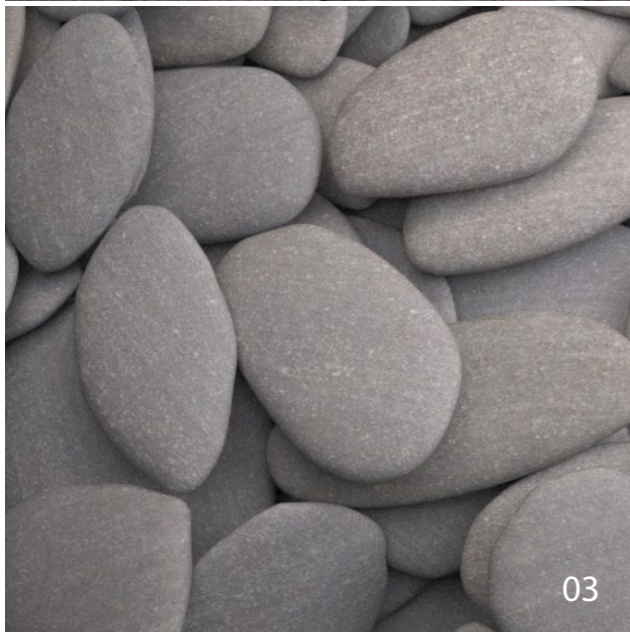
Variations



01



02



03

gravel-stone-027

Gravel Vol. 1 - Disk #5



Dry

Wet

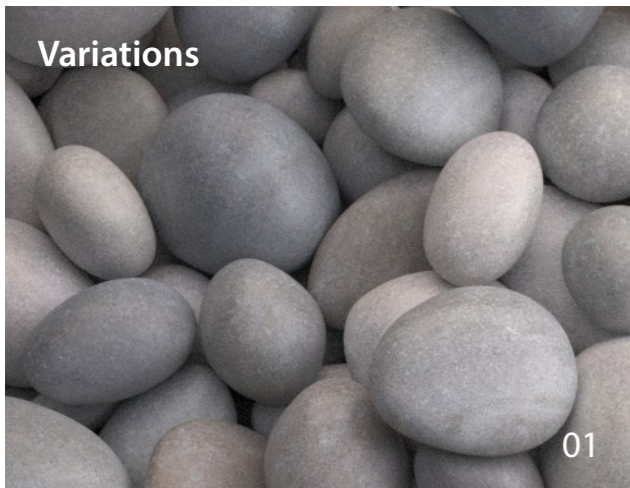
Map



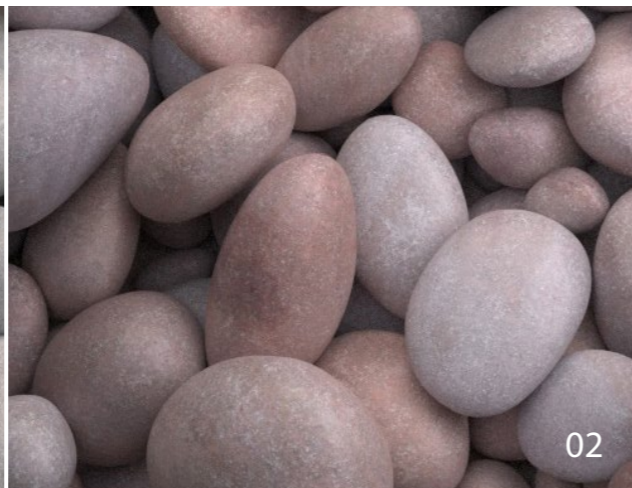
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03



04



05



06



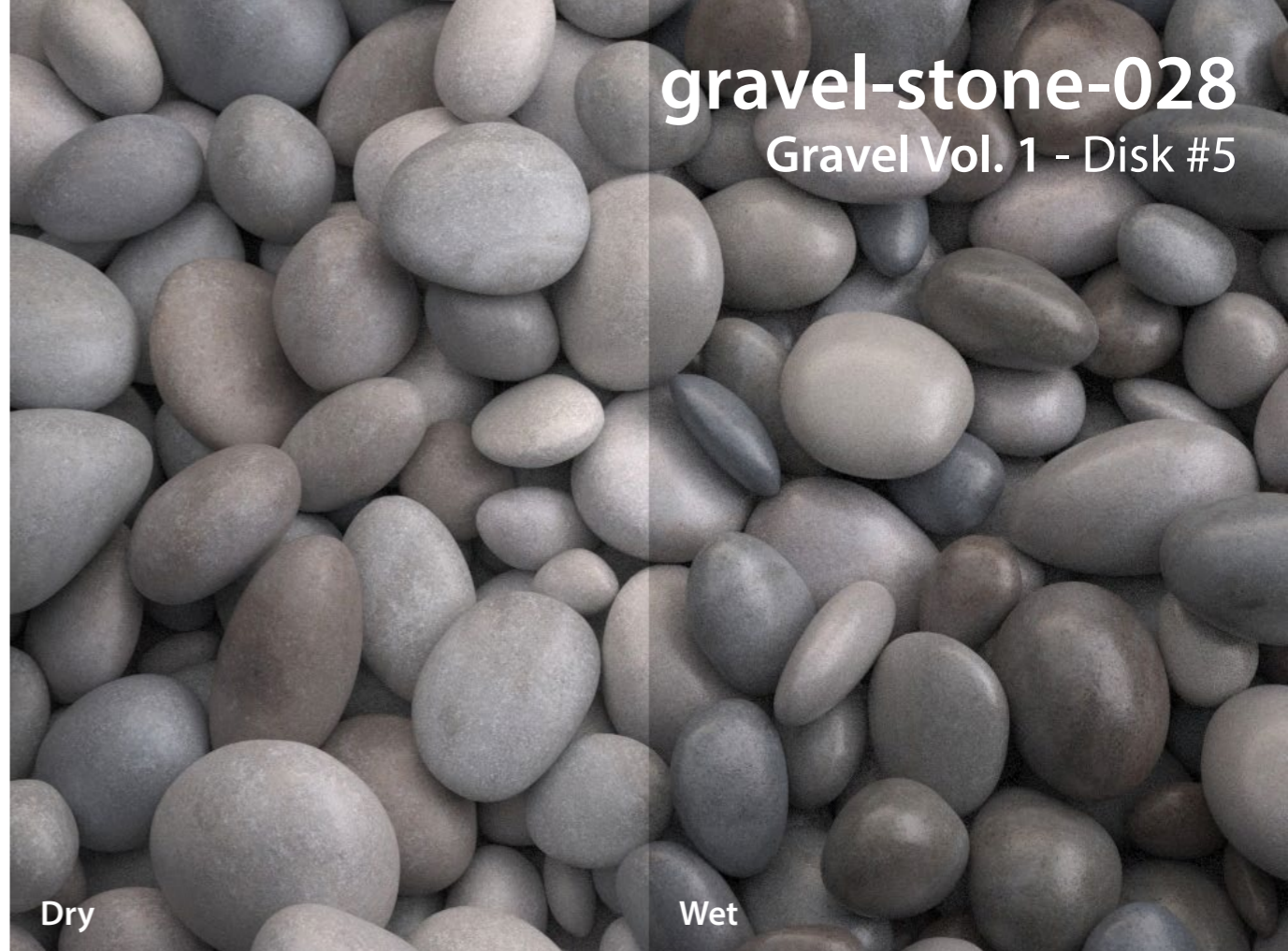
07



08

gravel-stone-028

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-029

Gravel Vol. 1 - Disk #5



Dry

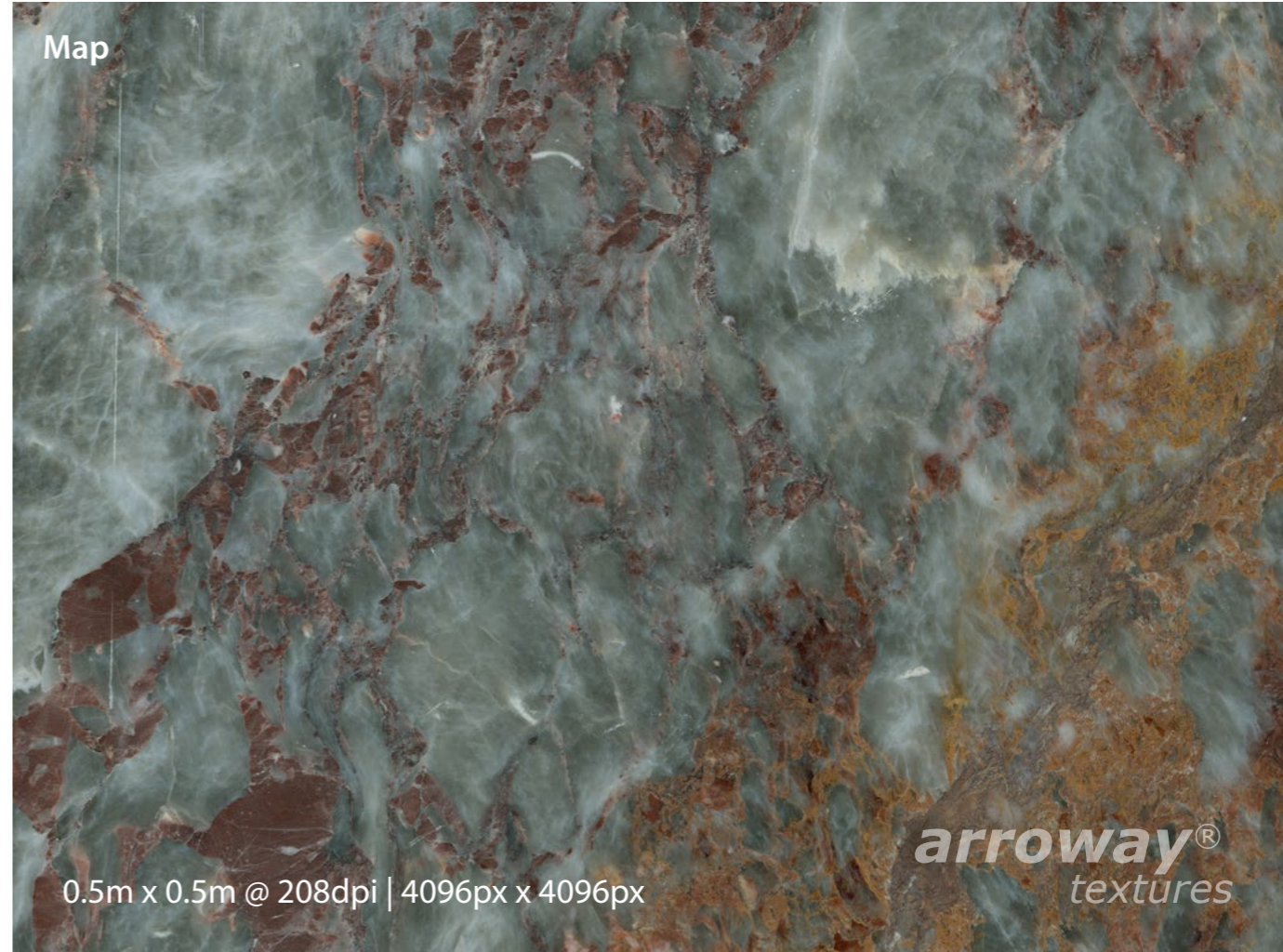
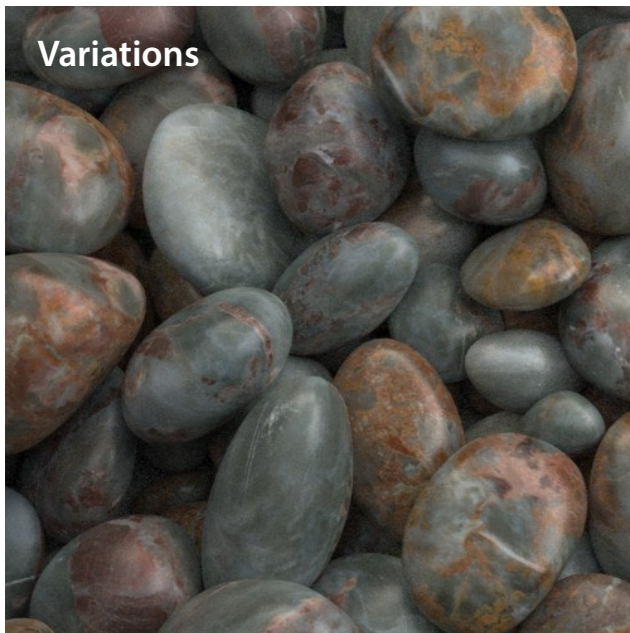
Wet

Map

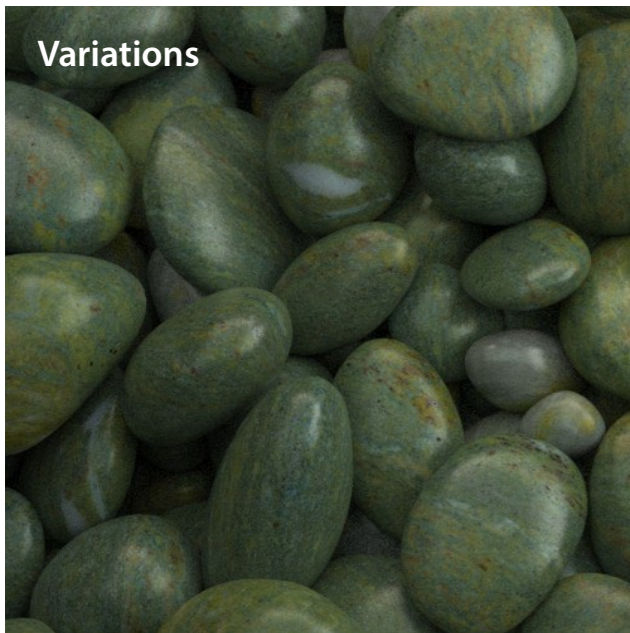


0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

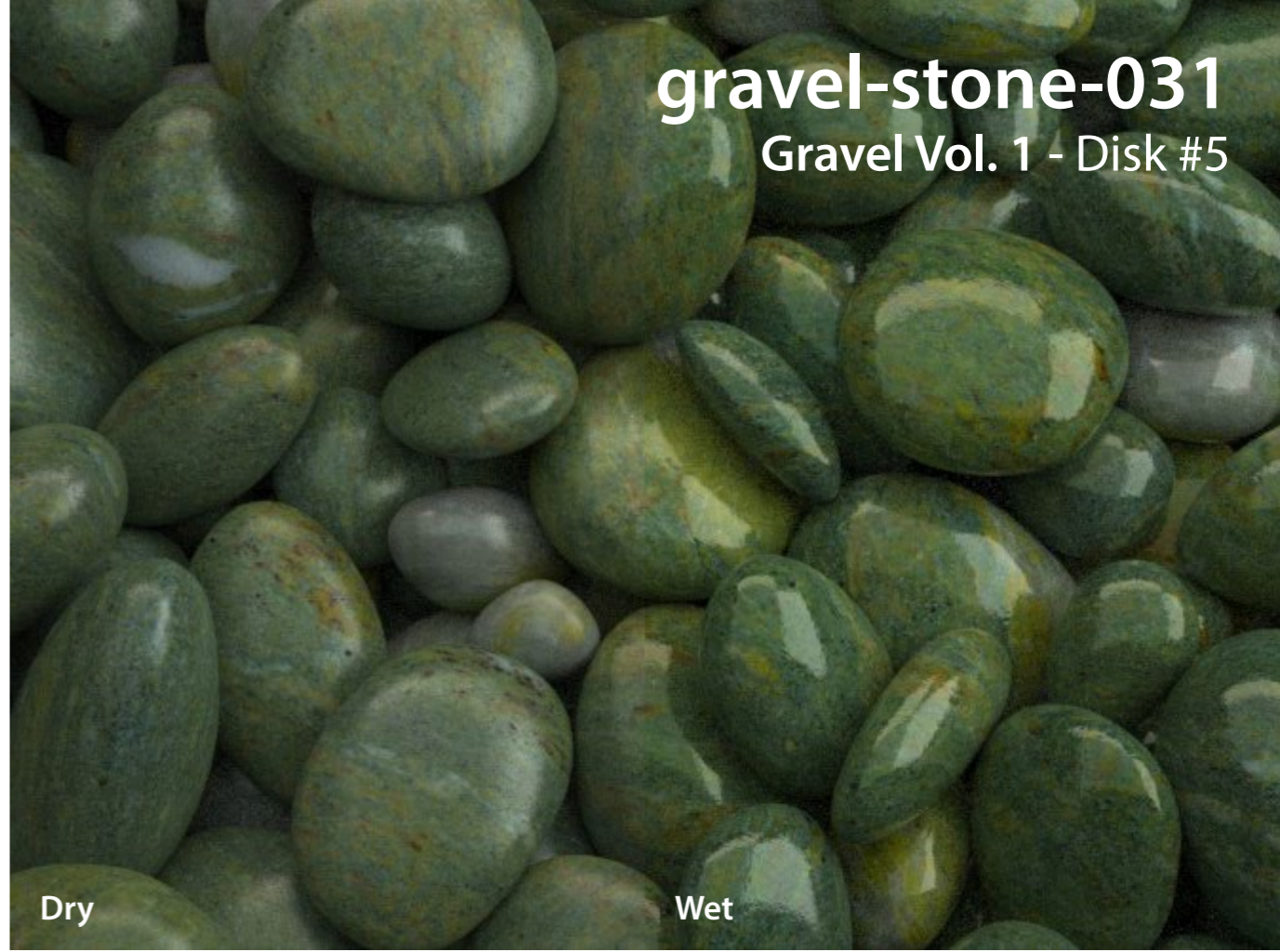


Variations



gravel-stone-031

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-032

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-033

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-034

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



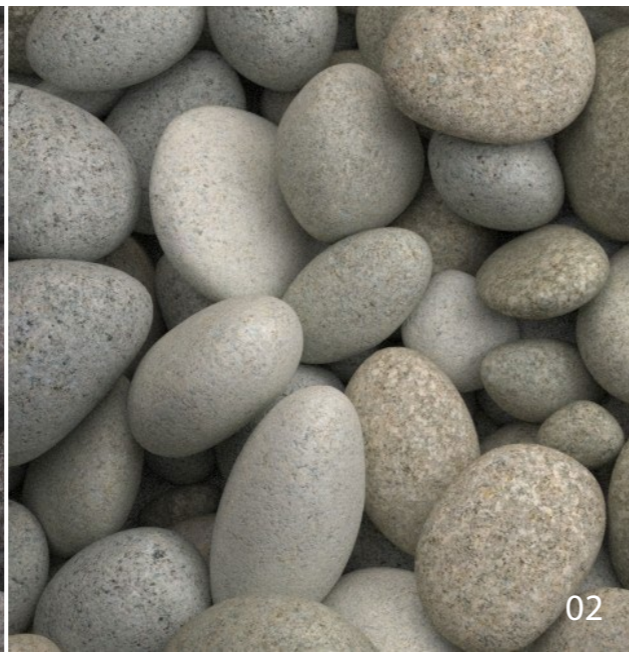
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

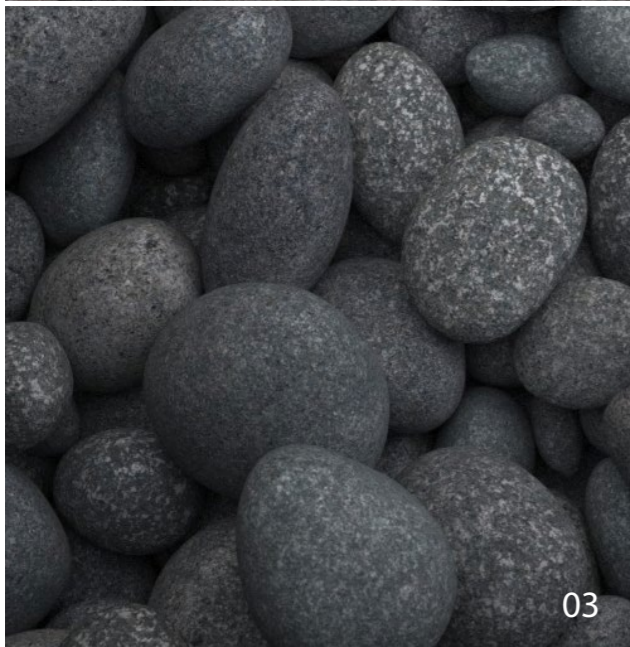
Variations



01



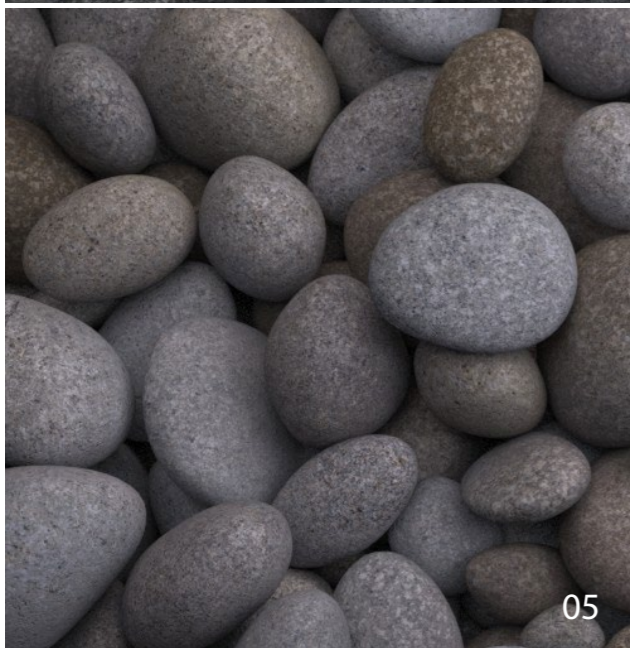
02



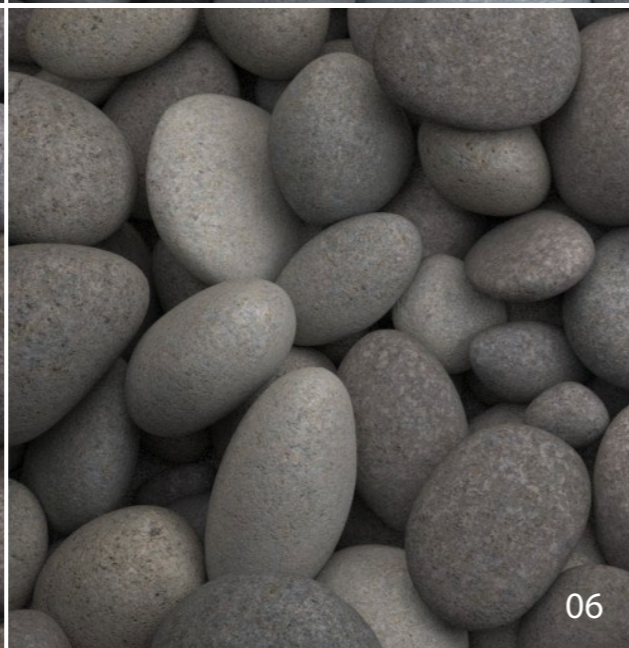
03



04



05



06

gravel-stone-035

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

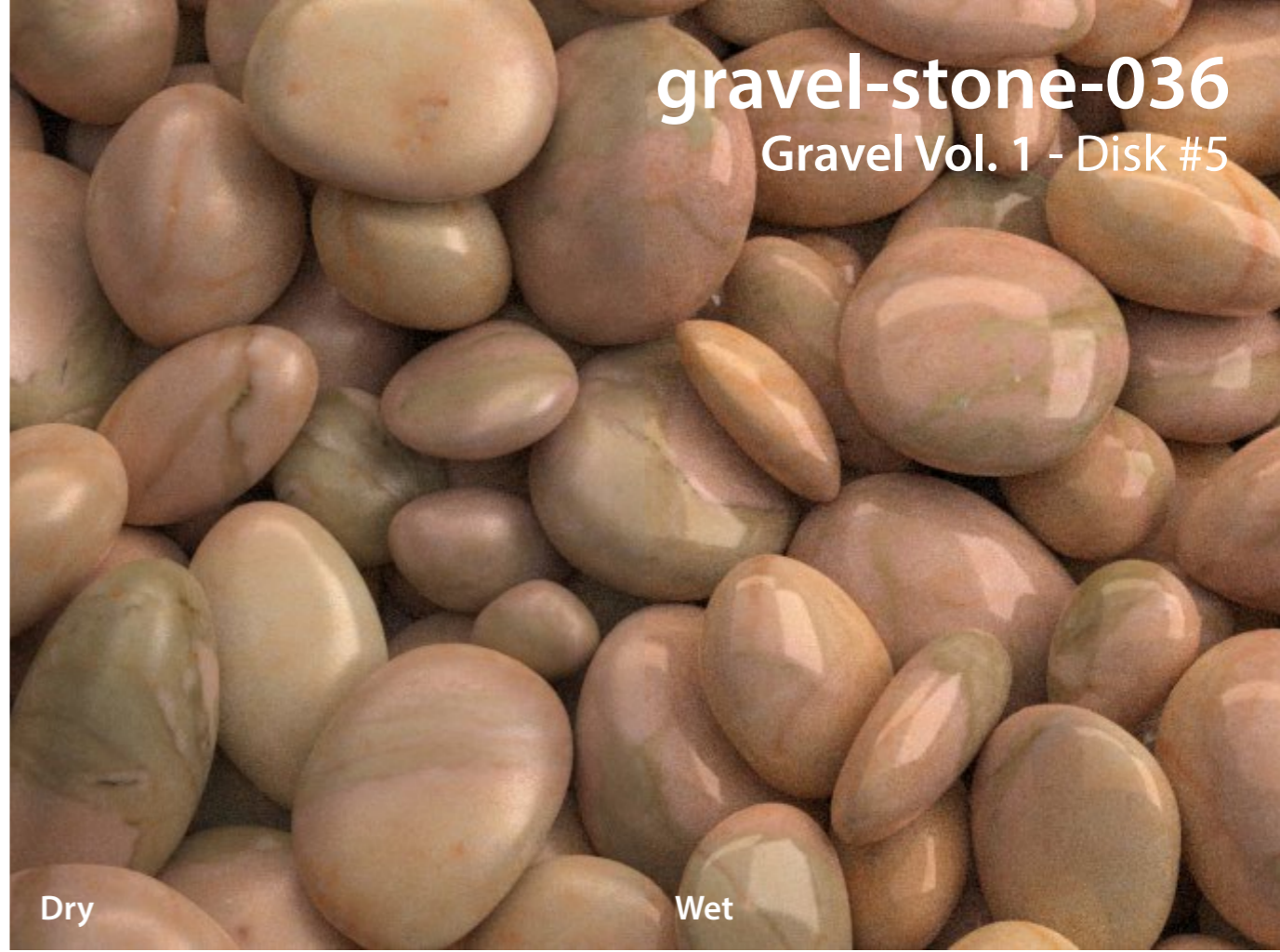
arroway®
textures

Variations



gravel-stone-036

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-037

Gravel Vol. 1 - Disk #5



Dry

Wet

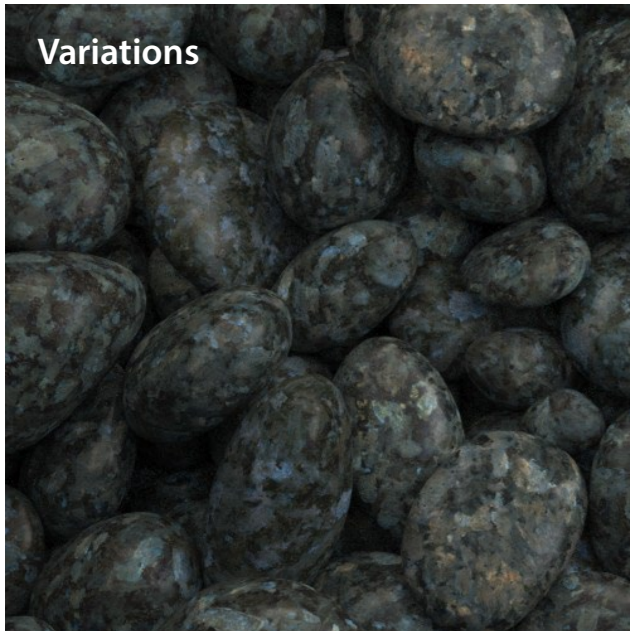
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-038

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-039

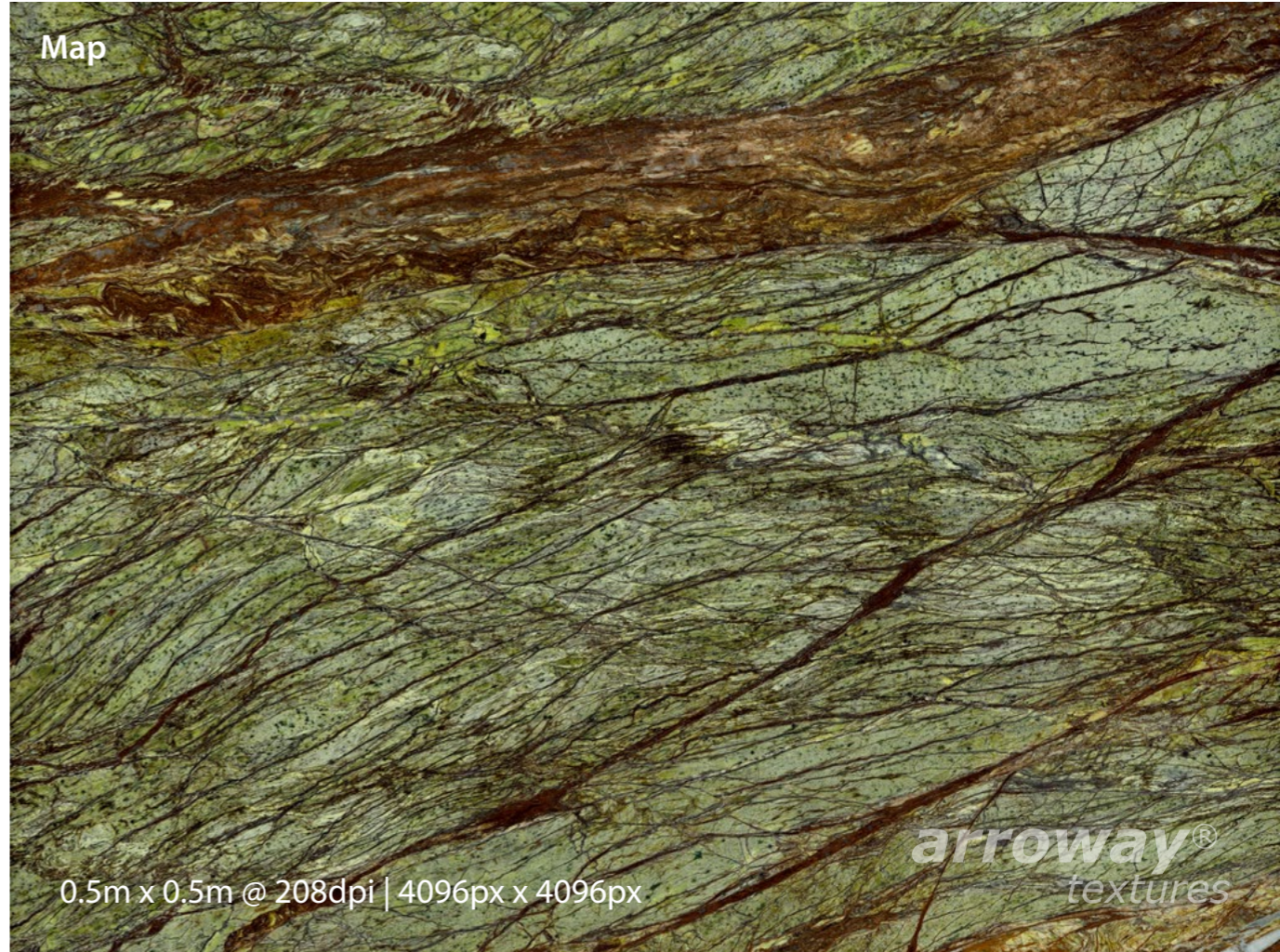
Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway[®]
textures

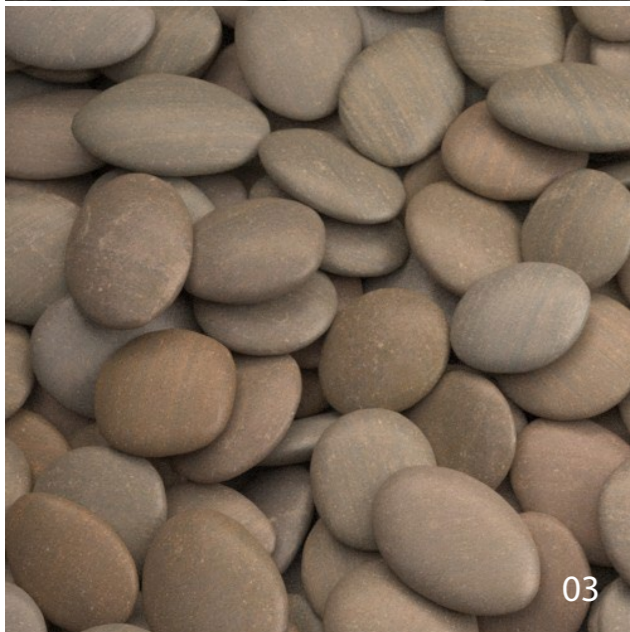
Variations



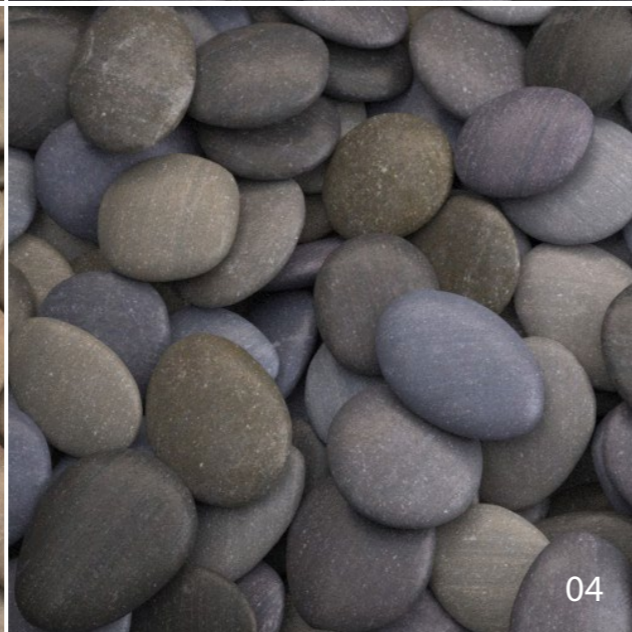
01



02



03



04

gravel-stone-040

Gravel Vol. 1 - Disk #5



Dry

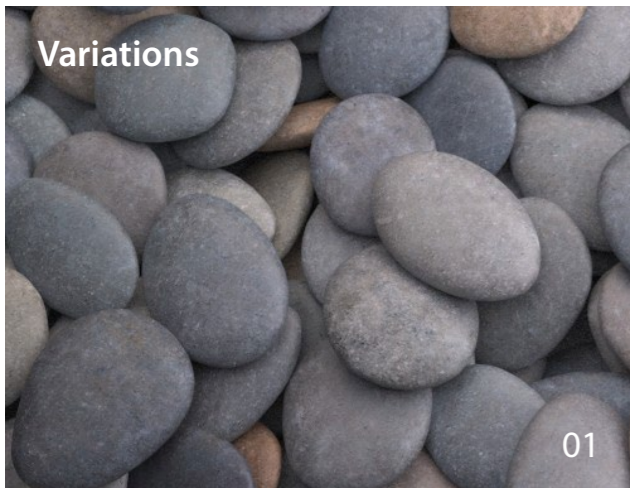
Wet

Map

0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03



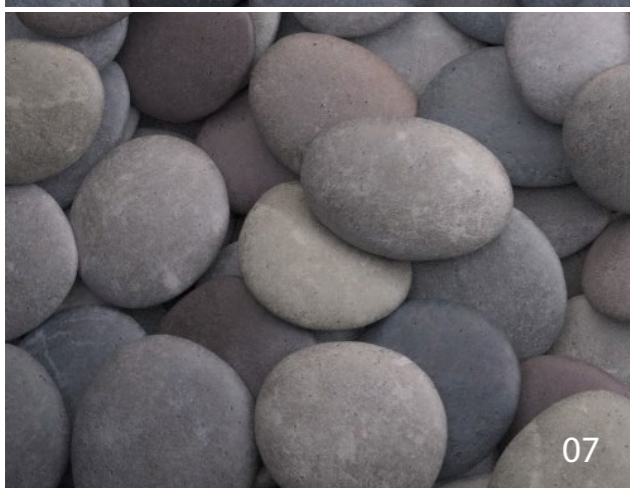
04



05



06



07

gravel-stone-041

Gravel Vol. 1 - Disk #5



Dry

Wet

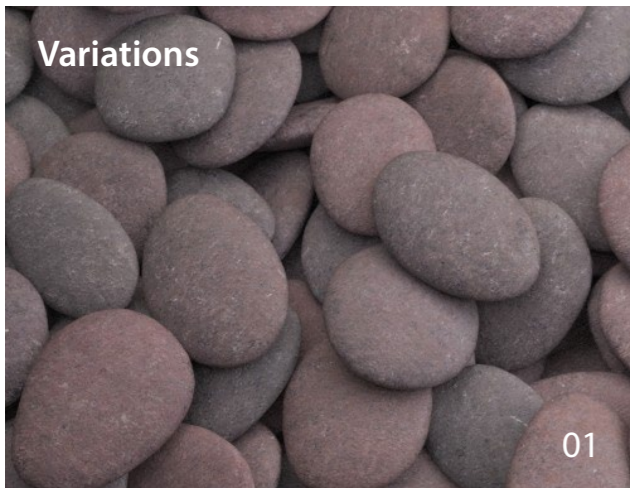
Map



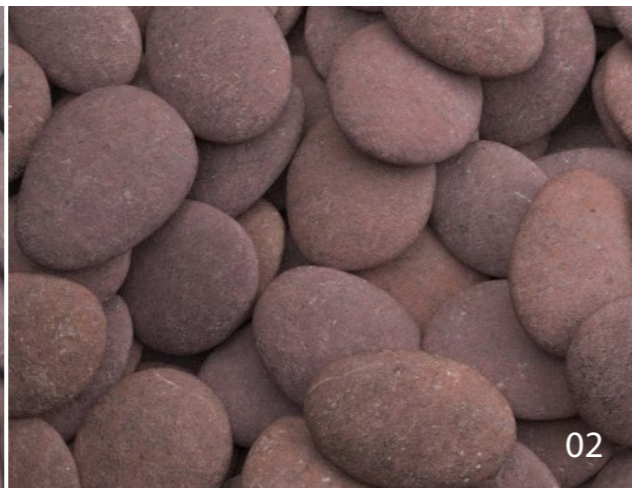
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



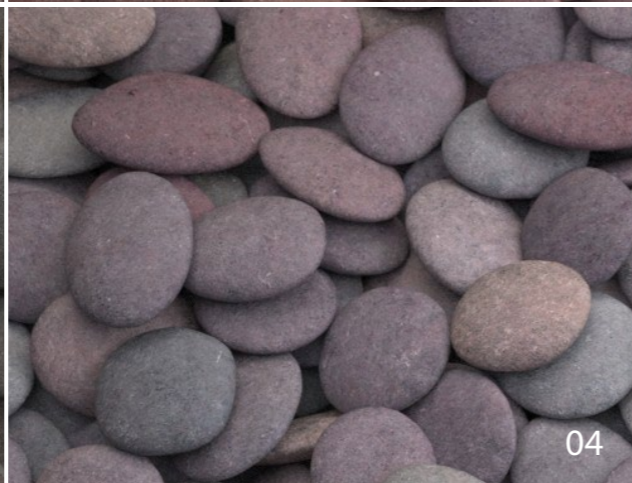
01



02



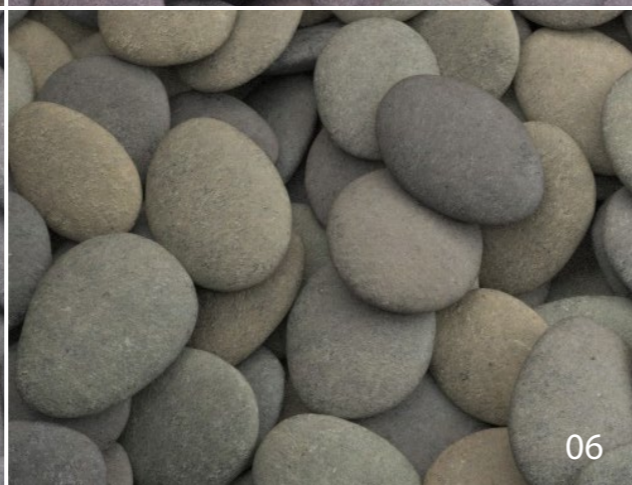
03



04



05



06



07

gravel-stone-042

Gravel Vol. 1 - Disk #5



Dry

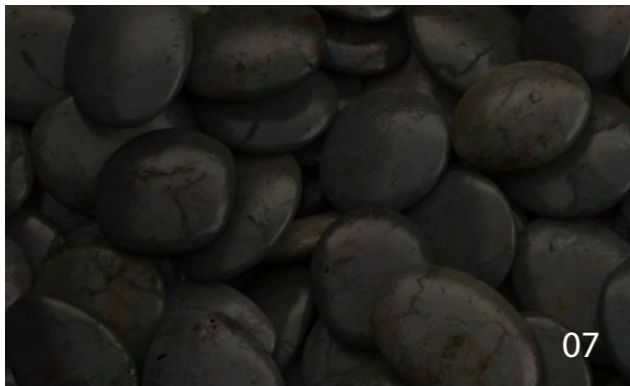
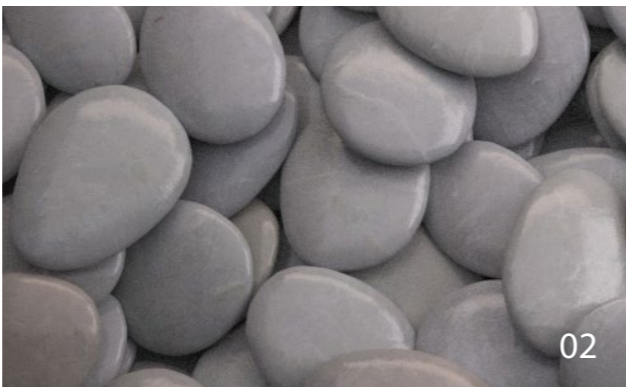
Wet

Map

0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-043

Gravel Vol. 1 - Disk #5



Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

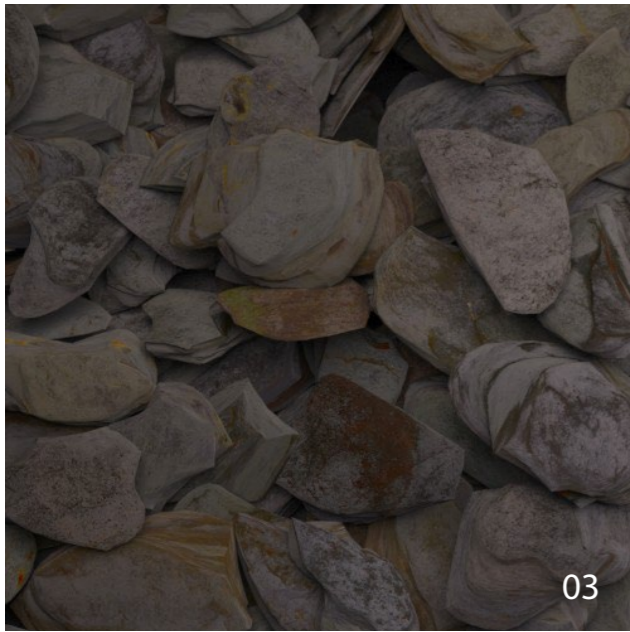
Variations



01



02



03



04

gravel-stone-044

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03



04

gravel-stone-045

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



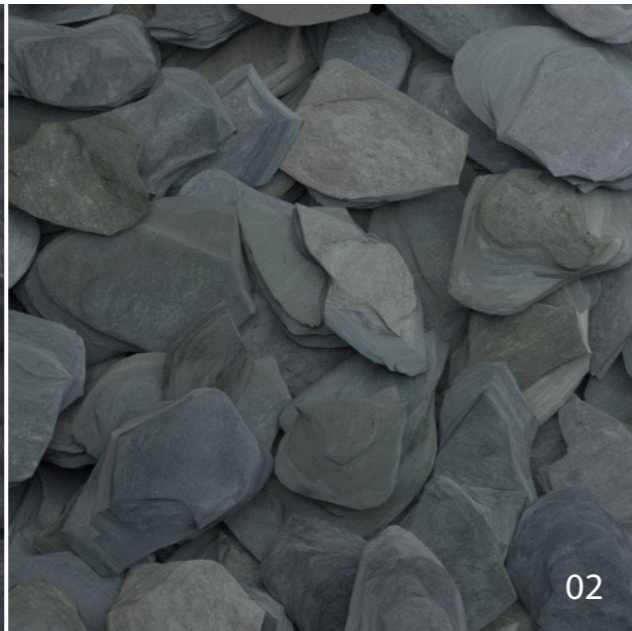
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03



04

gravel-stone-046

Gravel Vol. 1 - Disk #5



Dry

Wet

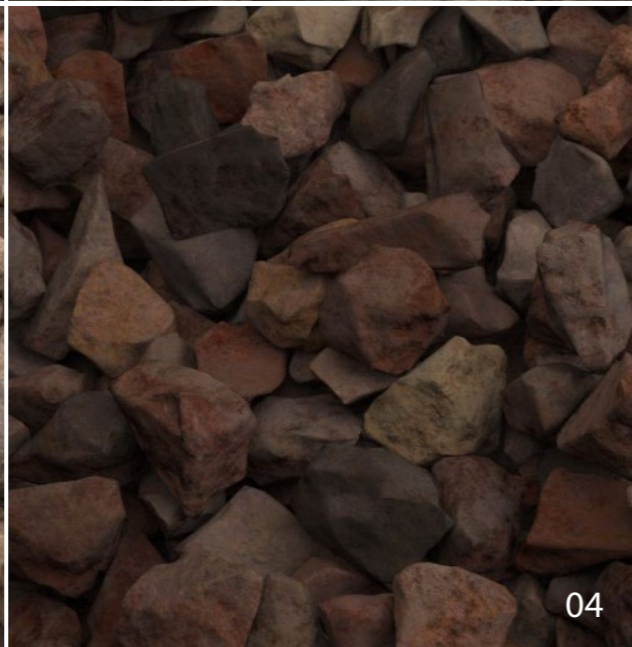
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-047

Gravel Vol. 1 - Disk #5



Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



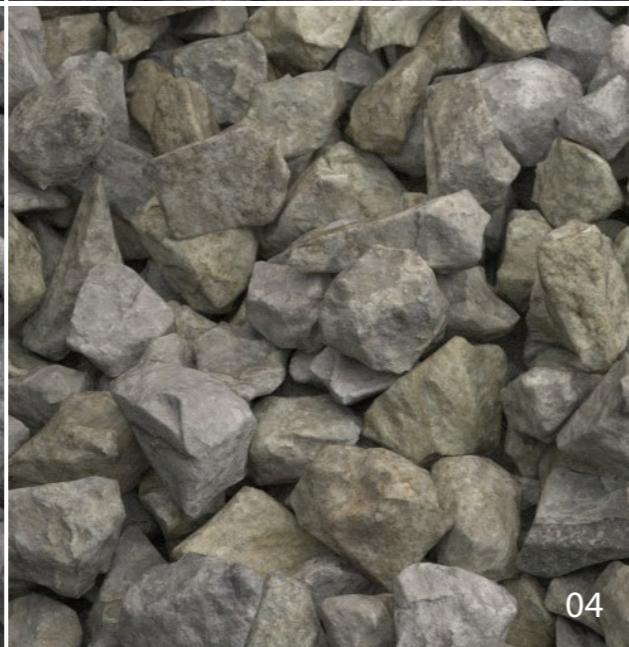
01



02



03



04



05

gravel-stone-048

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-049

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-050

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



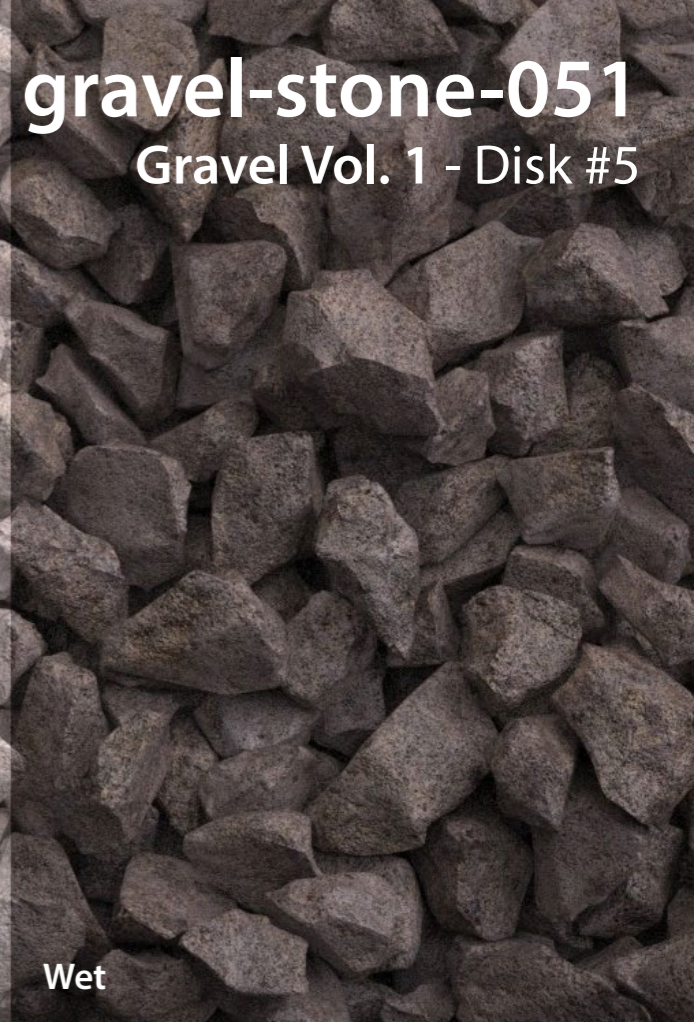
03

gravel-stone-051

Gravel Vol. 1 - Disk #5



Dry



Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-052

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-053

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-054

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-055

Gravel Vol. 1 - Disk #5



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-056

Gravel Vol. 1 - Disk #6



Dry

Wet

Map

0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-057

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-058

Gravel Vol. 1 - Disk #6



Dry

Wet

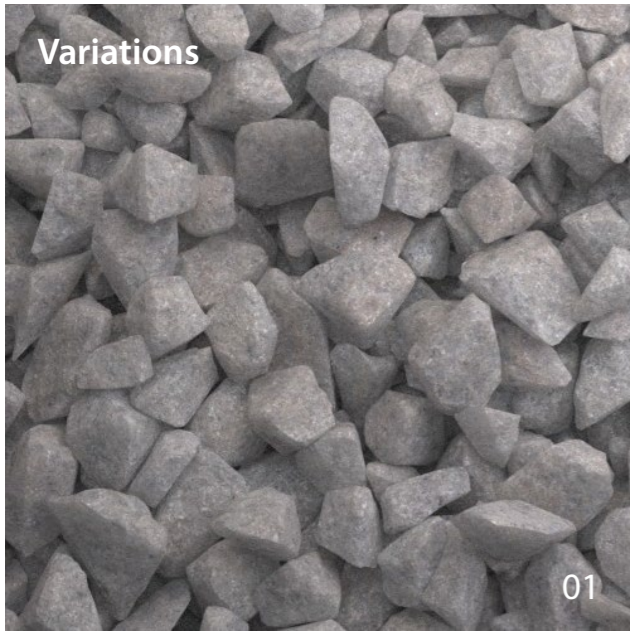
Map



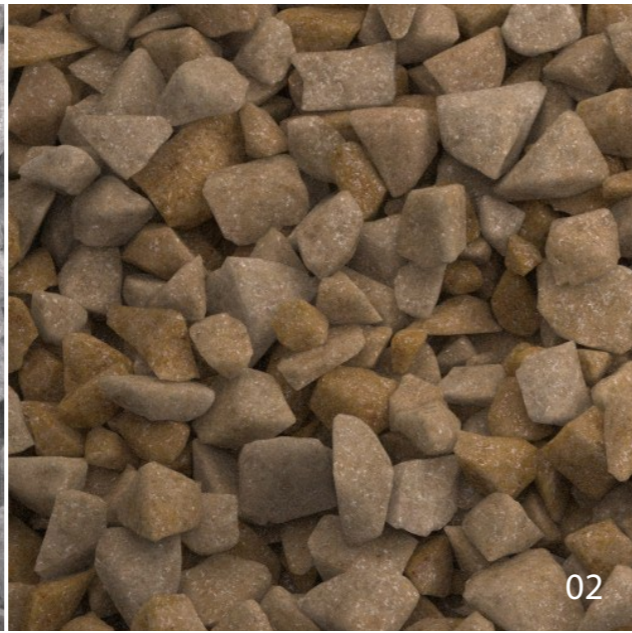
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03



04

gravel-stone-059

Gravel Vol. 1 - Disk #6



Dry

Wet

Map

0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-060

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



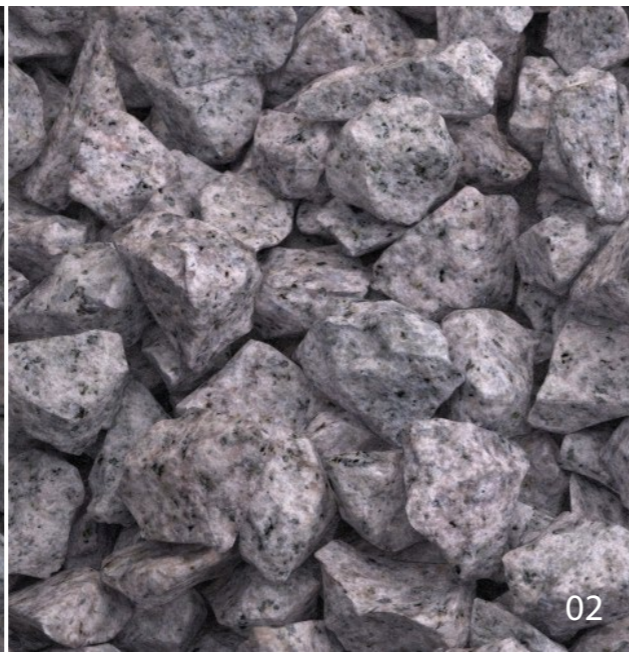
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



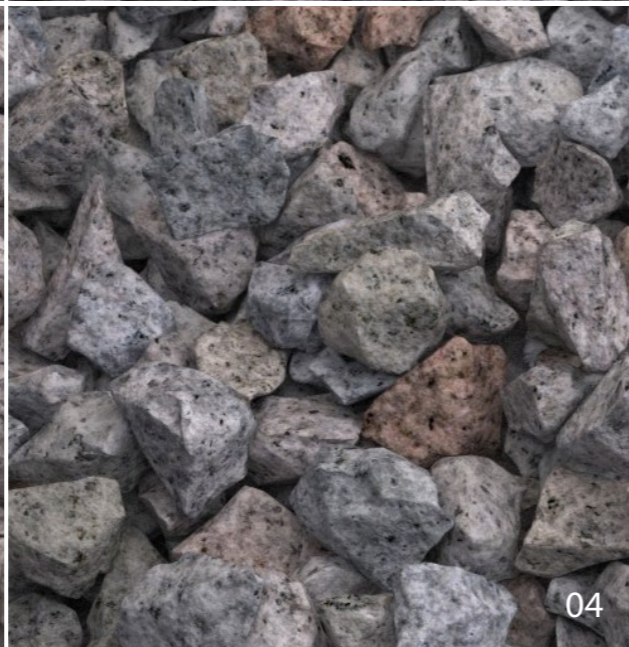
01



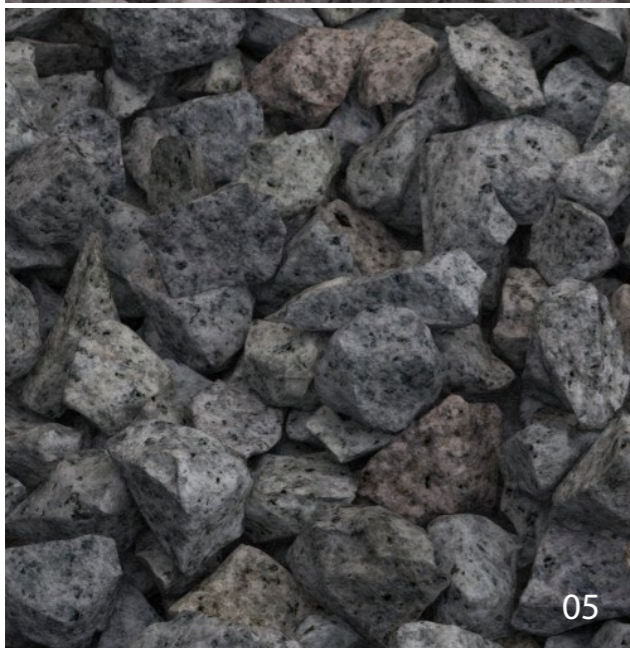
02



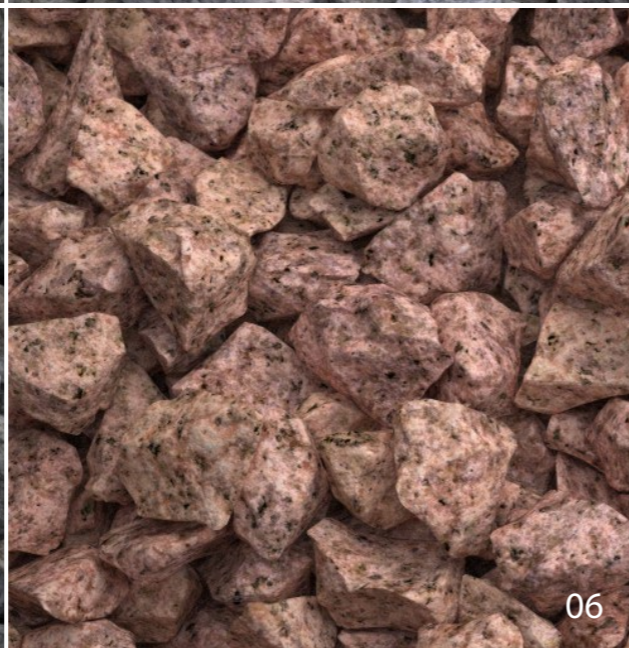
03



04



05



06

gravel-stone-061

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



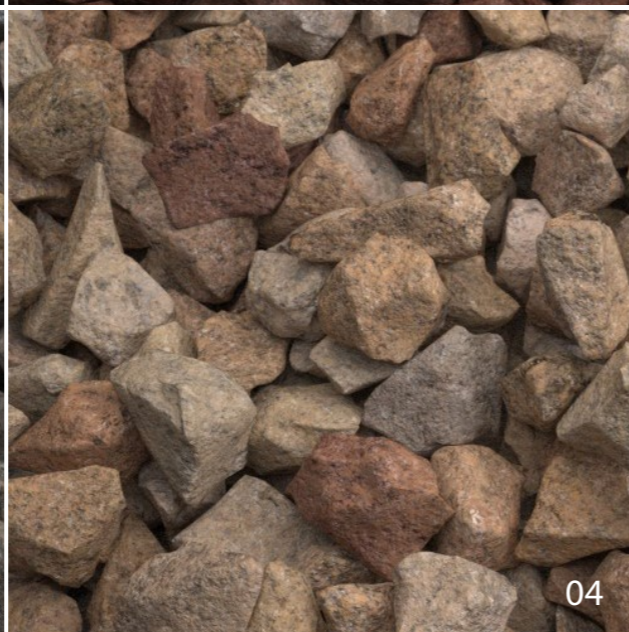
01



02



03



04

gravel-stone-062

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-063

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



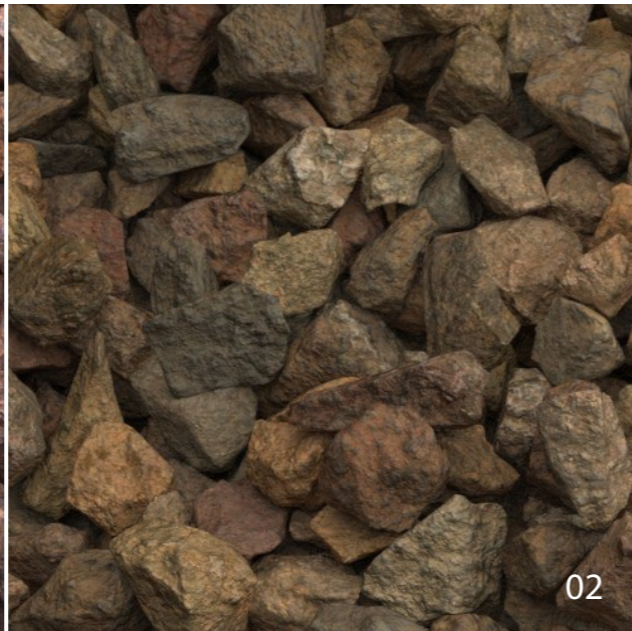
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-064

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



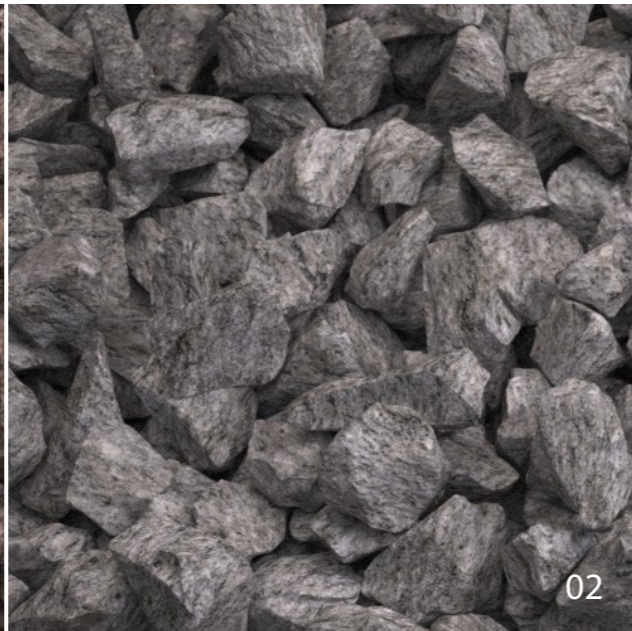
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-065

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



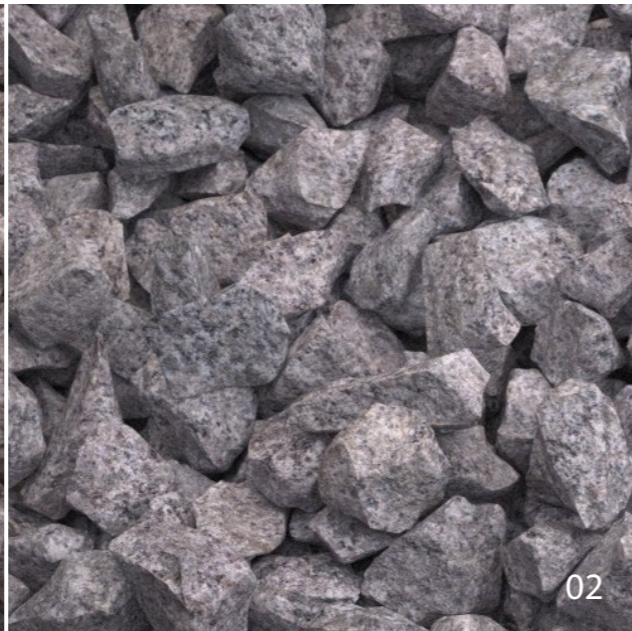
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-066

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-067

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

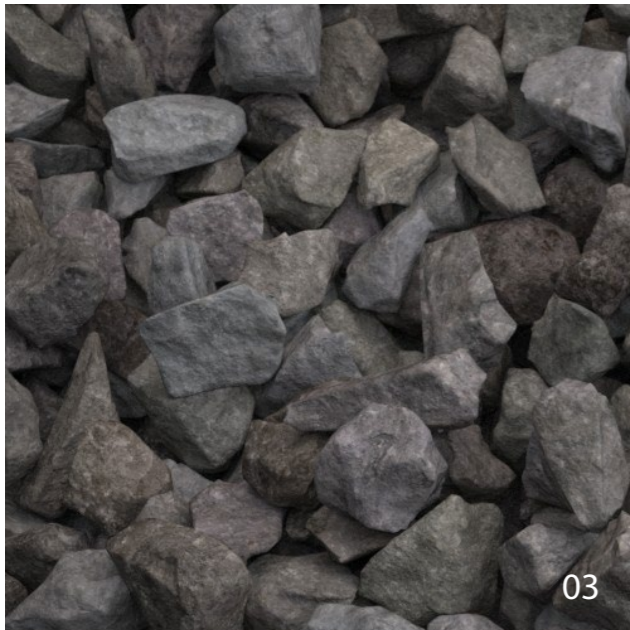
Variations



01



02



03



04

gravel-stone-068

Gravel Vol. 1 - Disk #6



Dry

Wet

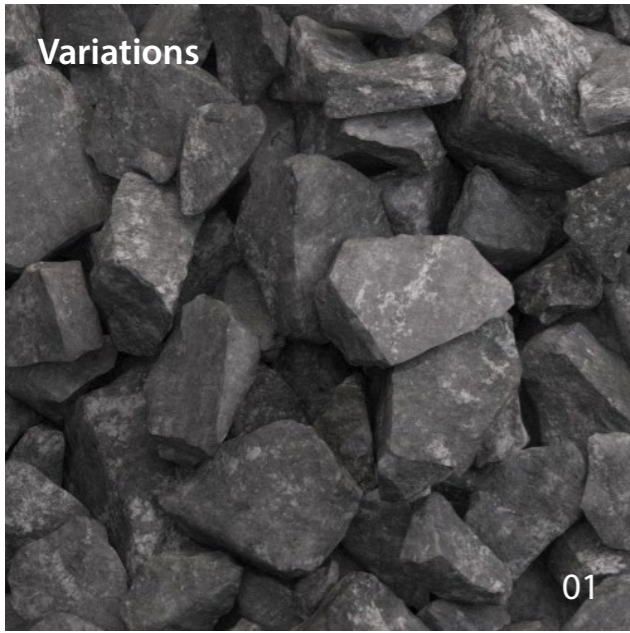
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-069

Gravel Vol. 1 - Disk #6



Dry

Wet

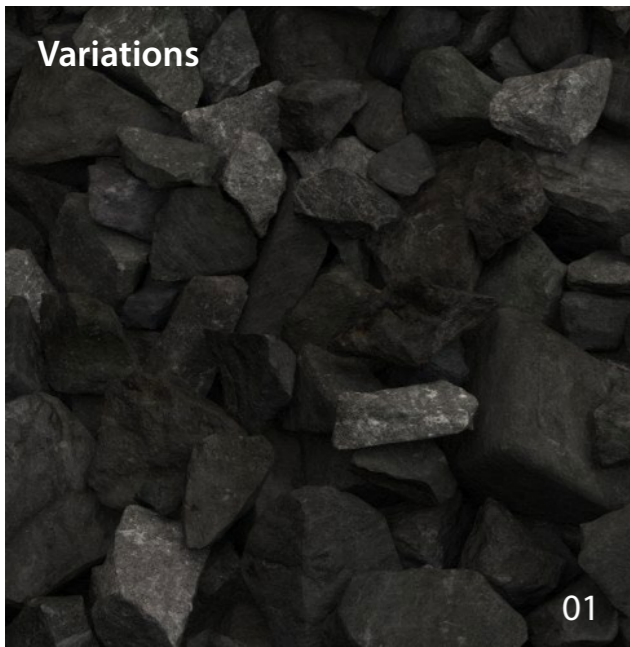
Map



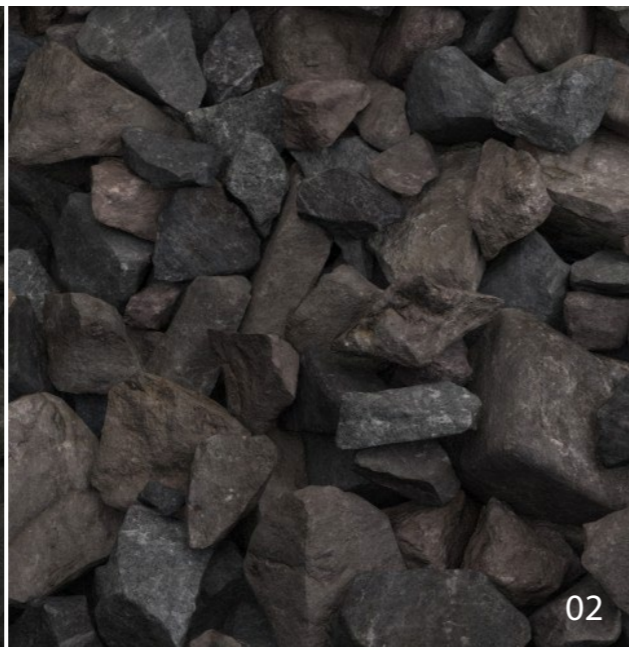
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



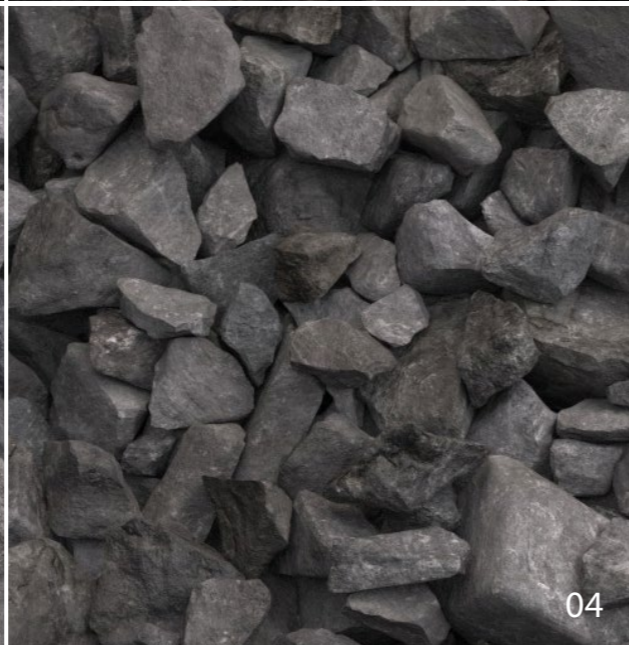
01



02



03



04



05



06

gravel-stone-070

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-071

Gravel Vol. 1 - Disk #6



Dry

Wet

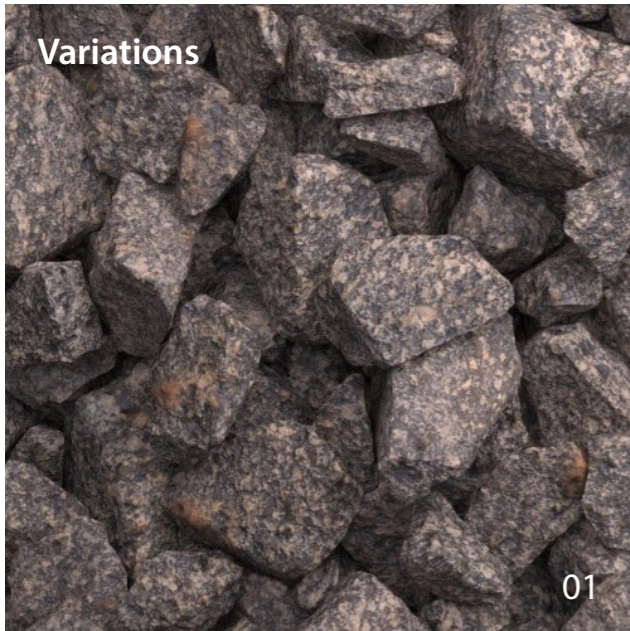
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

gravel-stone-072

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-073

Gravel Vol. 1 - Disk #6



Dry

Wet

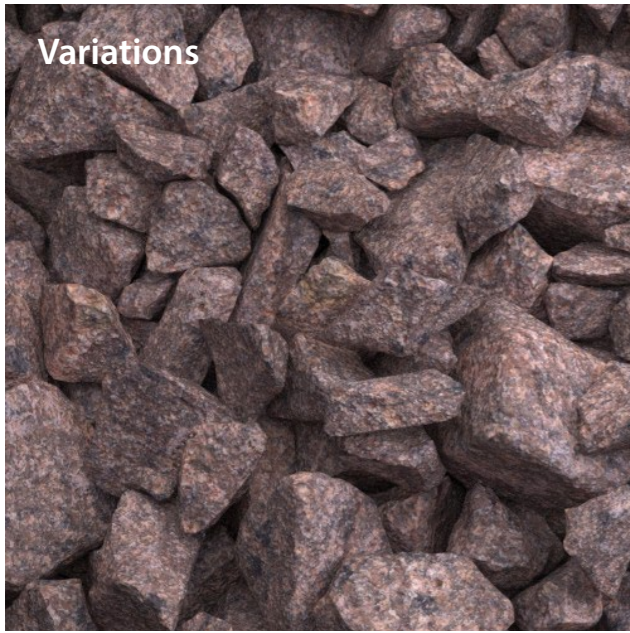
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-074

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



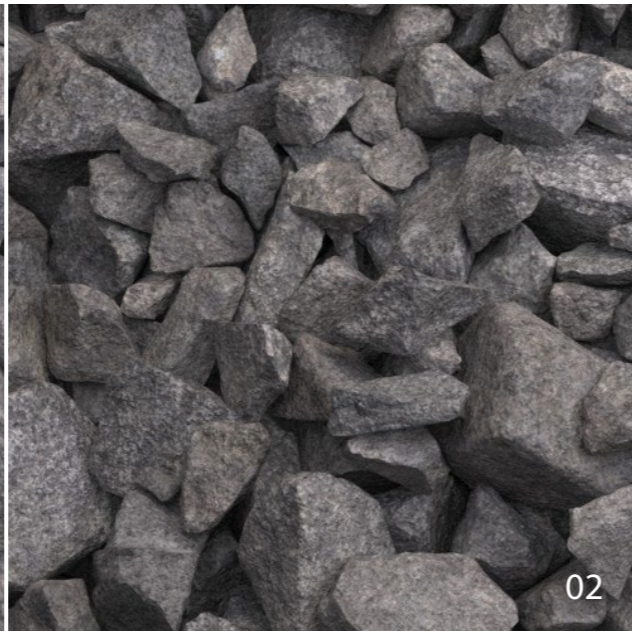
0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02



03

gravel-stone-075

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-076

Gravel Vol. 1 - Disk #6



Dry

Wet

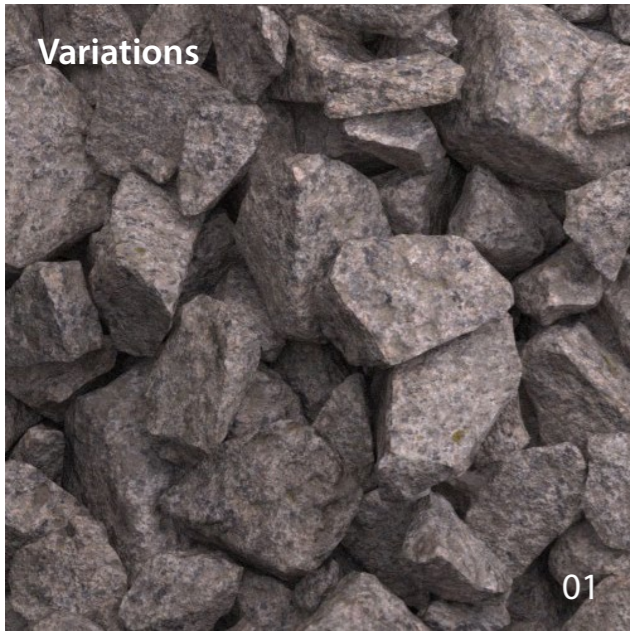
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



01



02

gravel-stone-077

Gravel Vol. 1 - Disk #6



Dry

Wet

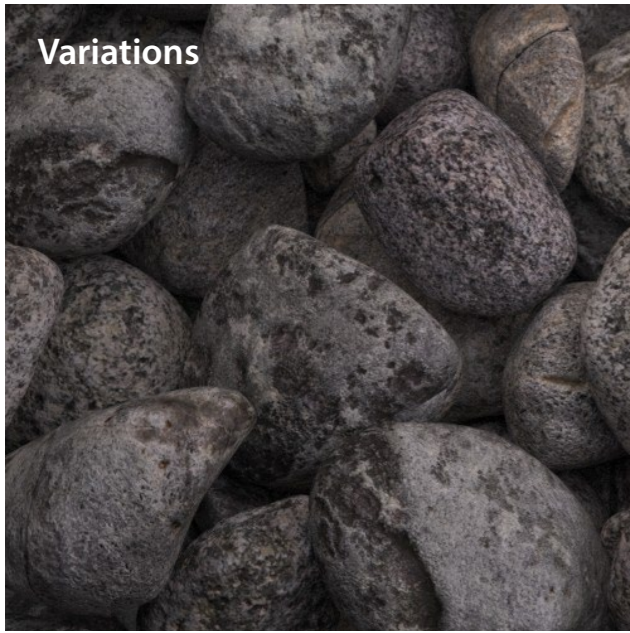
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-078

Gravel Vol. 1 - Disk #6



Dry

Wet

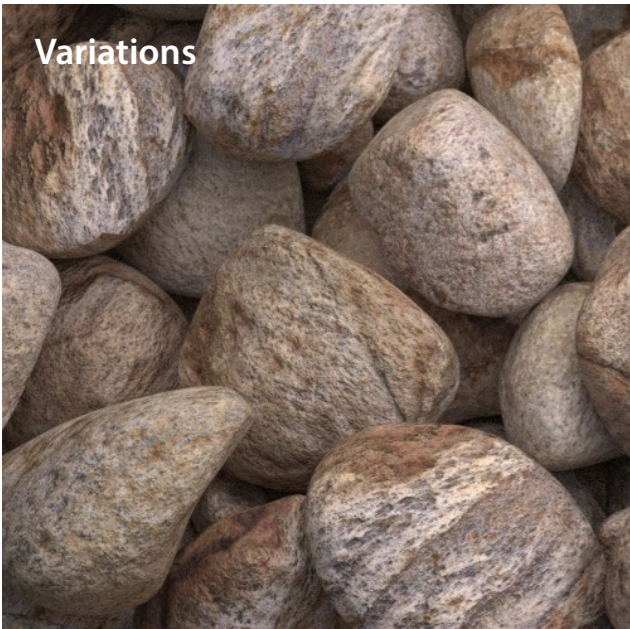
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

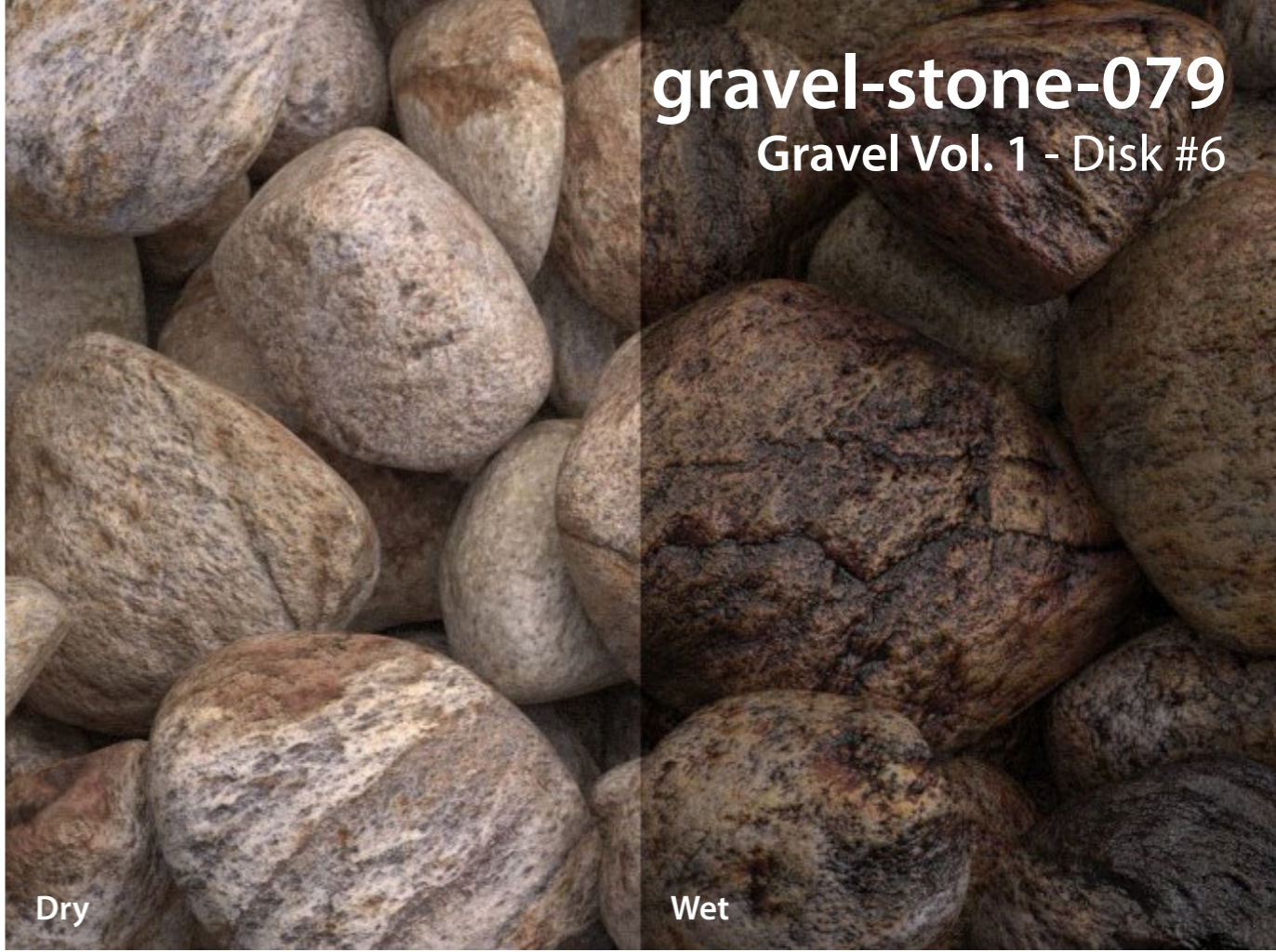
arroway®
textures

Variations



gravel-stone-079

Gravel Vol. 1 - Disk #6



Dry

Wet

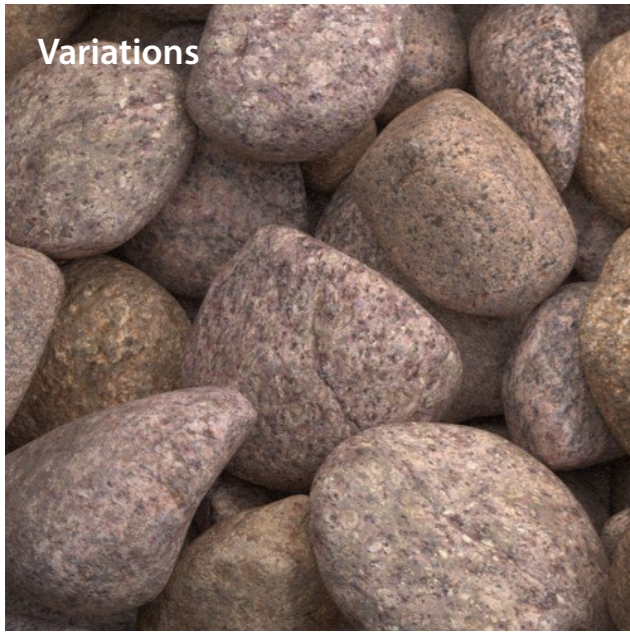
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-080

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-081

Gravel Vol. 1 - Disk #6



Dry

Wet

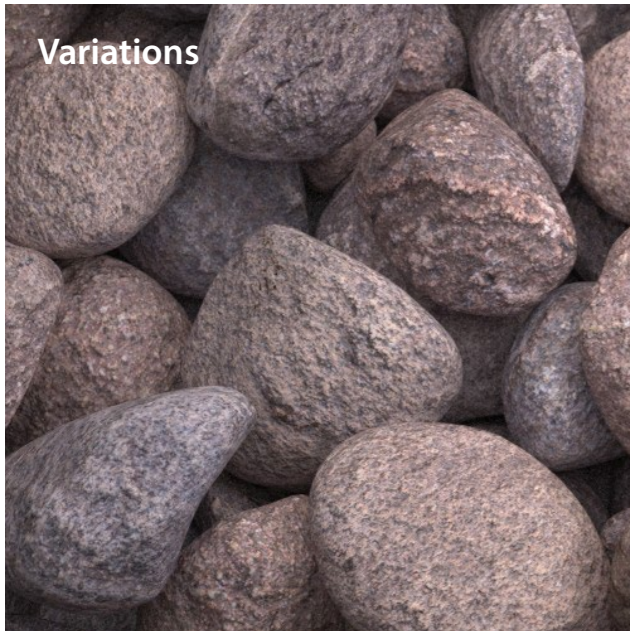
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

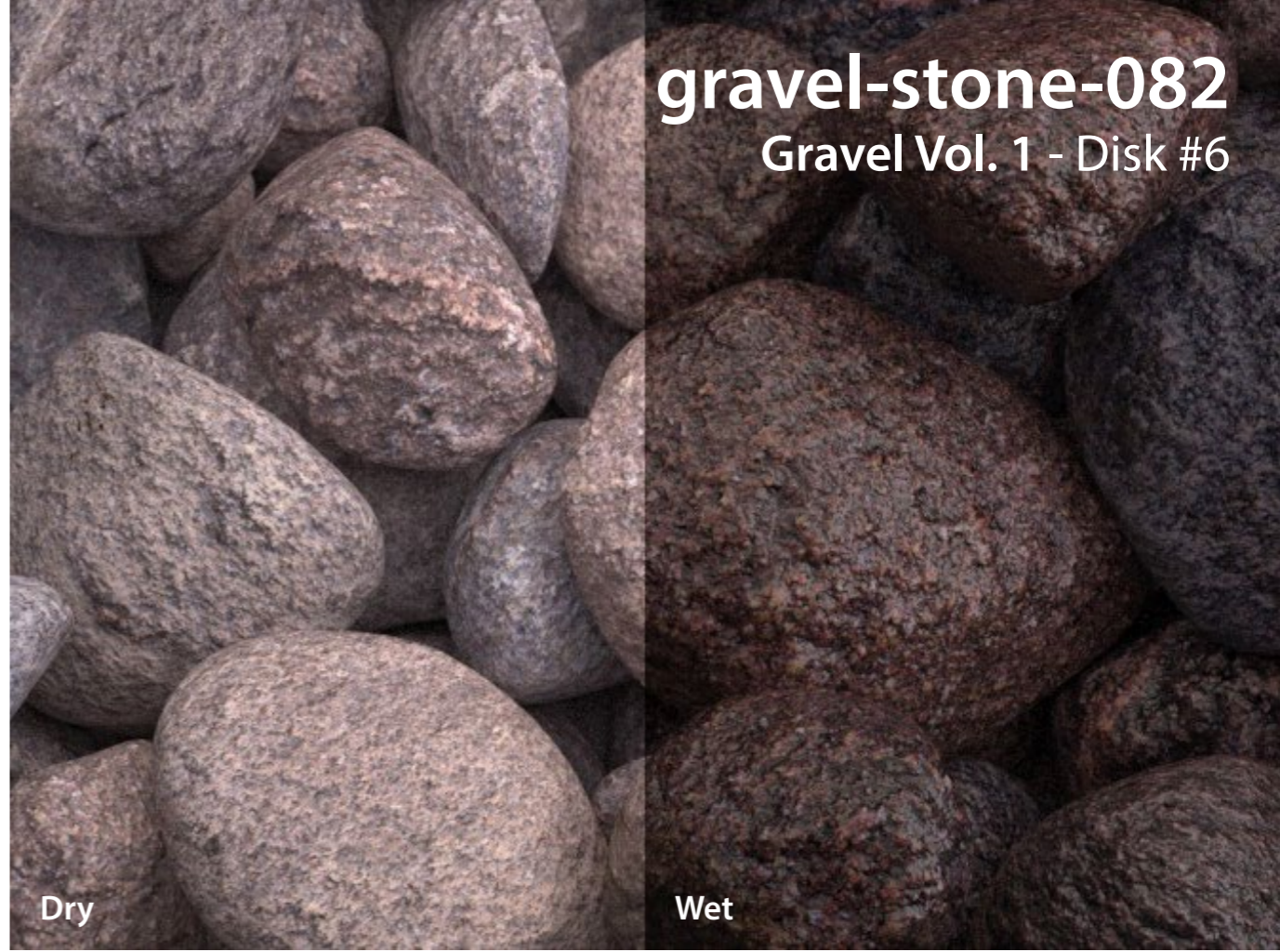
arroway®
textures

Variations



gravel-stone-082

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

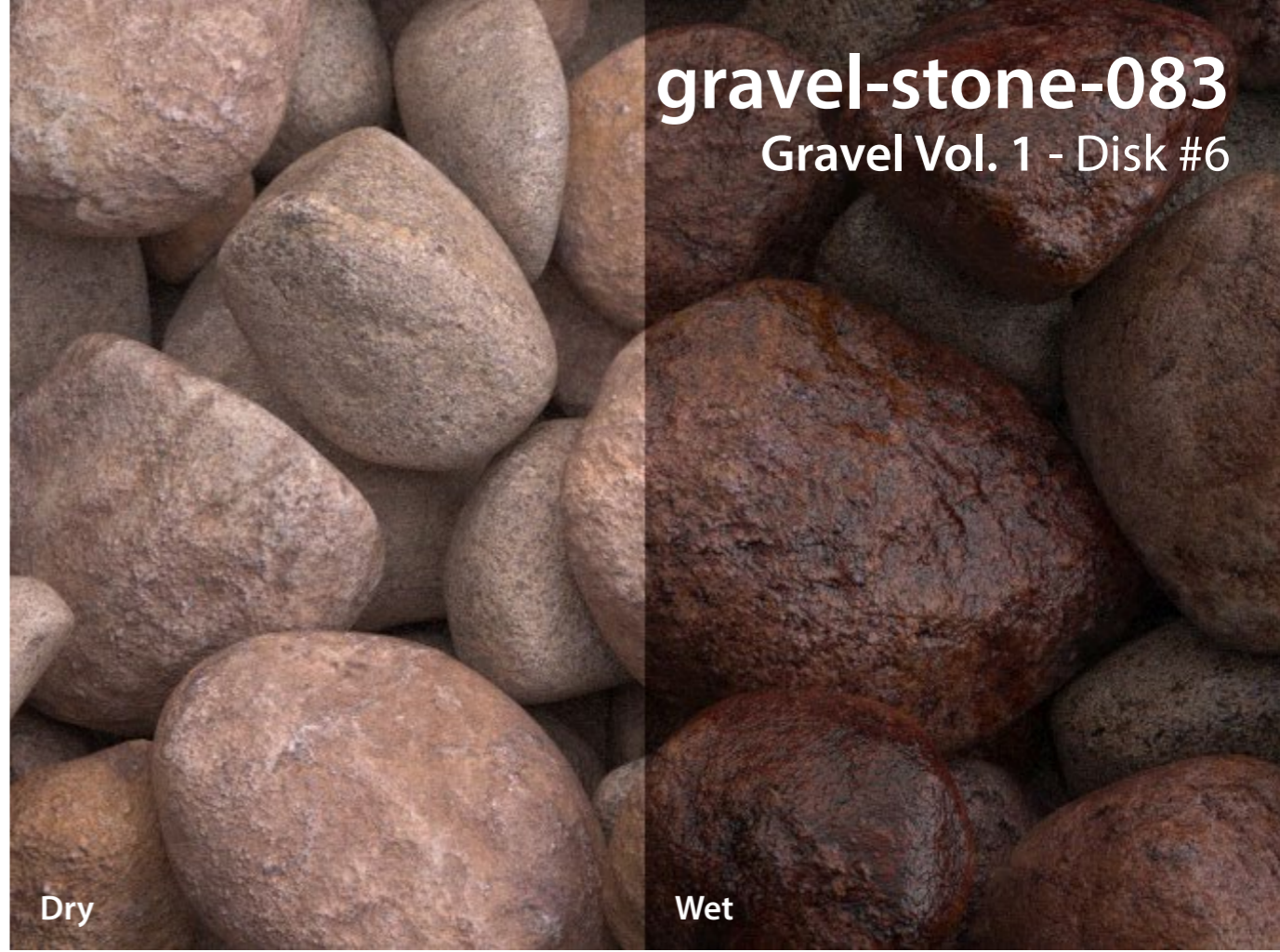
arroway®
textures

Variations



gravel-stone-083

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

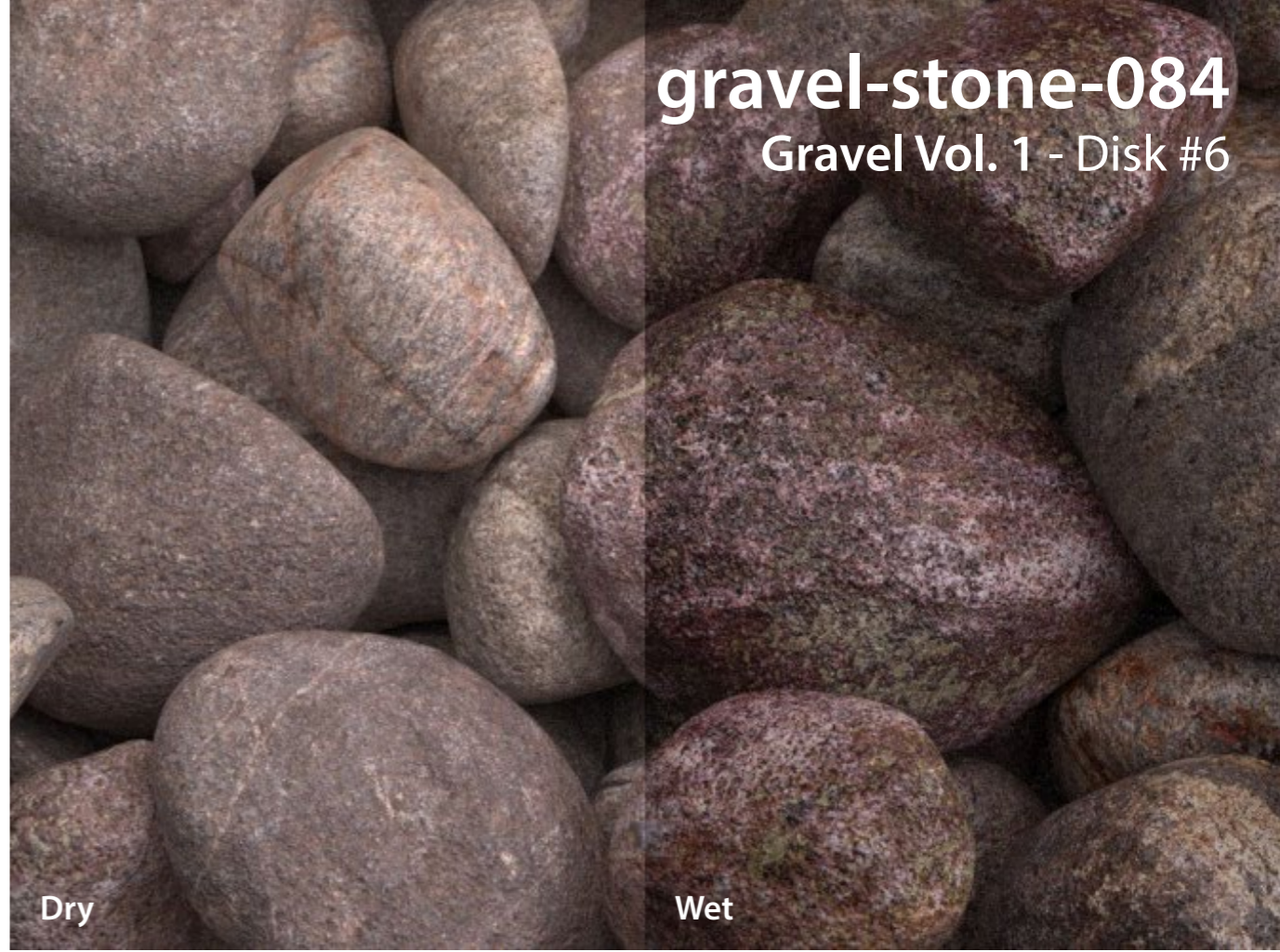
arroway®
textures

Variations



gravel-stone-084

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-085

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

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Variations



gravel-stone-086

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

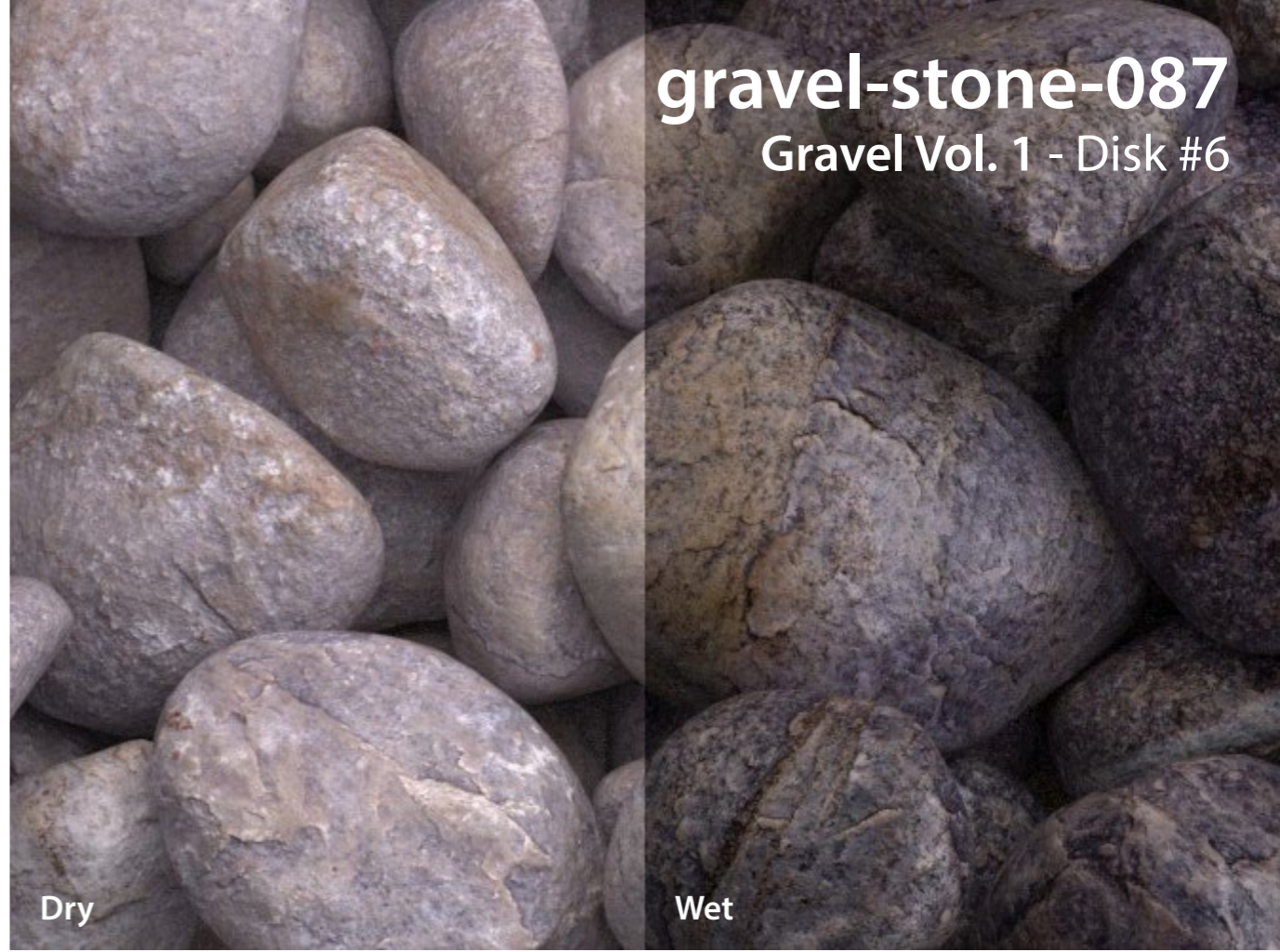
arroway®
textures

Variations



gravel-stone-087

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-088

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-089

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-090

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-091

Gravel Vol. 1 - Disk #6



Dry

Wet

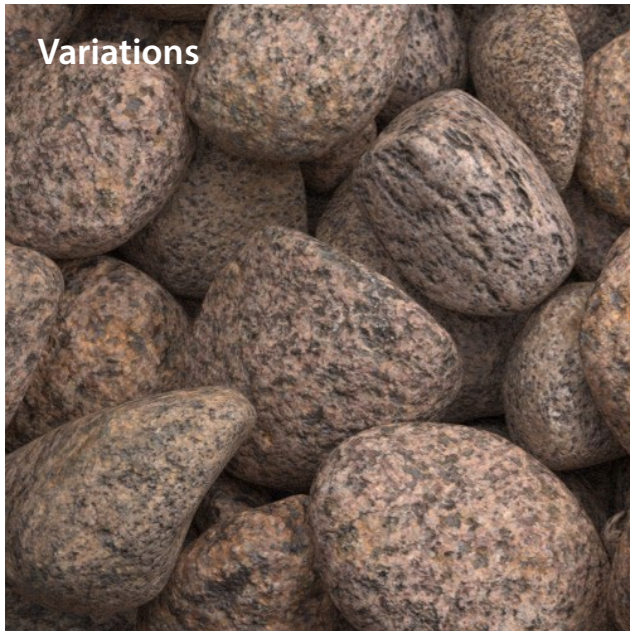
Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway[®]
textures

Variations



gravel-stone-092

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-093

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Variations



gravel-stone-094

Gravel Vol. 1 - Disk #6



Dry

Wet

Map



0.5m x 0.5m @ 208dpi | 4096px x 4096px

arroway®
textures

Gravel Textures

This product contains 134 different gravel textures, which were created based on 15 different gravel types and styles. Each gravel texture basically consists of two parts, the base texture and the variation texture. The base texture contributes the displacement and normal maps, which are unique to the gravel type. The variation texture contains diffuse, bump and reflectivity maps, which are unique to each variation.



Base Textures

There are 15 different base textures in total, each consisting of the following:

- *Displacement map*: Contains depth information, describing the basic shape of the gravel surface
- *Normal map*: Contains surface angle information, also describing the basic shape
- *Ambient occlusion (AO) map*: Contains basic shading information
- *Edge map*: Contains curvature information
- *Mask map*: Contains mask information in form of a random color assigned to every individual stone

The displacement and normal maps are used in conjunction with the variation texture on render time. AO, edge and mask maps can help you create your own gravel textures (e.g. with Photoshop).

Variation Textures

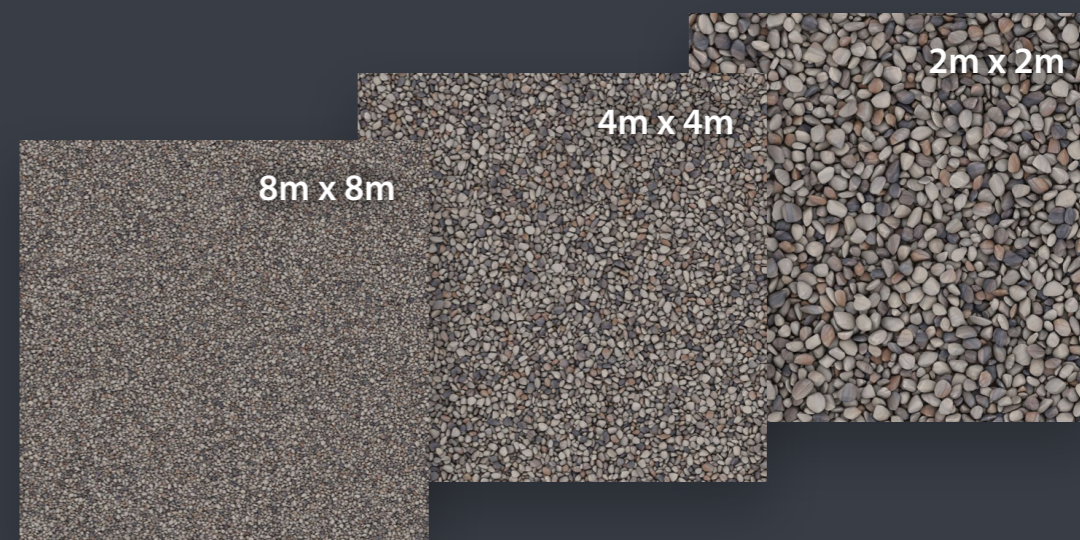
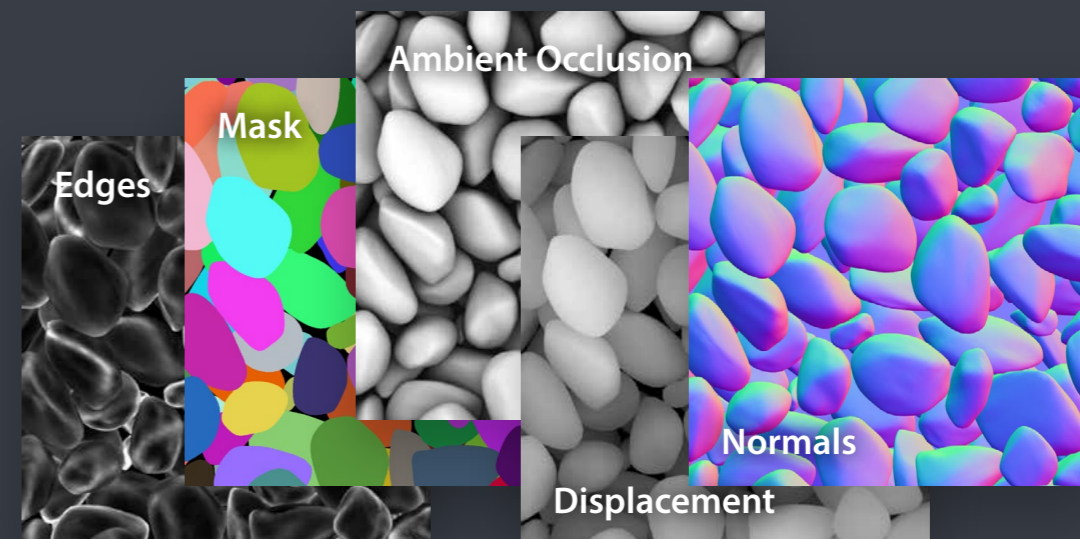
There are 134 gravel textures, each consisting of the following:

- *Diffuse map (+AO)*: Contains the color information of the texture with Ambient Occlusion baked-in.
- *Diffuse map*: A second color map, optimized for use with displacement mapping
- *Bump map*: Contains fine surface detail on individual stone pebbles
- *Reflectivity map*: Contains surface roughness information, describing how reflective the surface appears. This map also has Ambient Occlusion baked-in.

These variation textures are to be used in conjunction with the gravel base textures, mentioned above.

Scale

All gravel textures, base and variation, come in three different scales: 2m x 2m, 4m x 4m and 8m x 8m. This allows you to choose the scale that fits the requirements of your 3D scene best, i.e. larger area vs. higher resolution.



Variations

01

02

03

04

Smoothed 1 / gravel-001

Gravel Vol. 1 - Disk #2

Base texture gravel-base-01

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway®
textures

Variations

01

02

03

04

Smoothed 1 / gravel-002

Gravel Vol. 1 - Disk #2

Base texture gravel-base-01

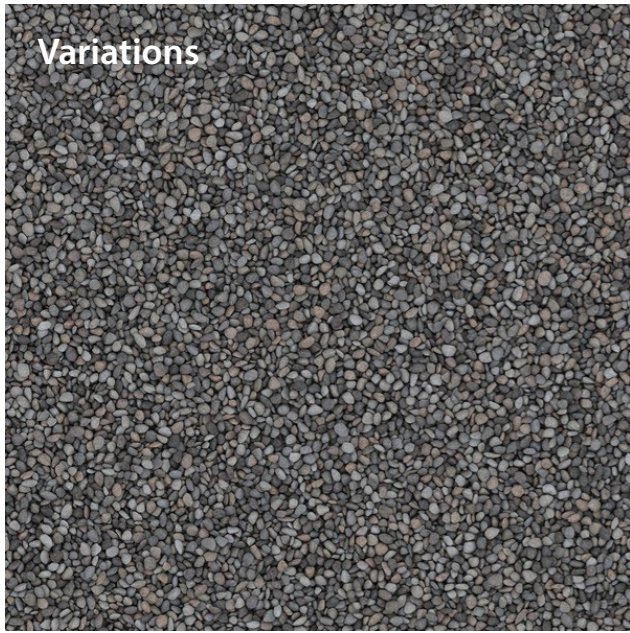
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 1 / gravel-003

Gravel Vol. 1 - Disk #2



Base texture gravel-base-01

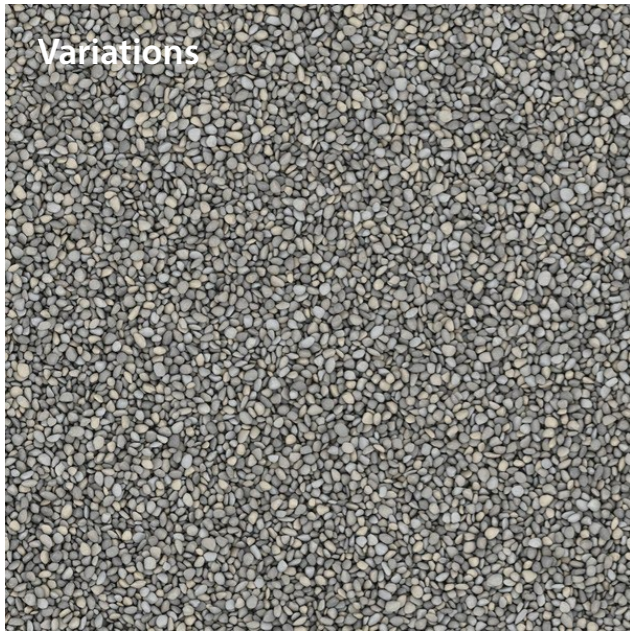
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 1 / gravel-004

Gravel Vol. 1 - Disk #2



Base texture gravel-base-01

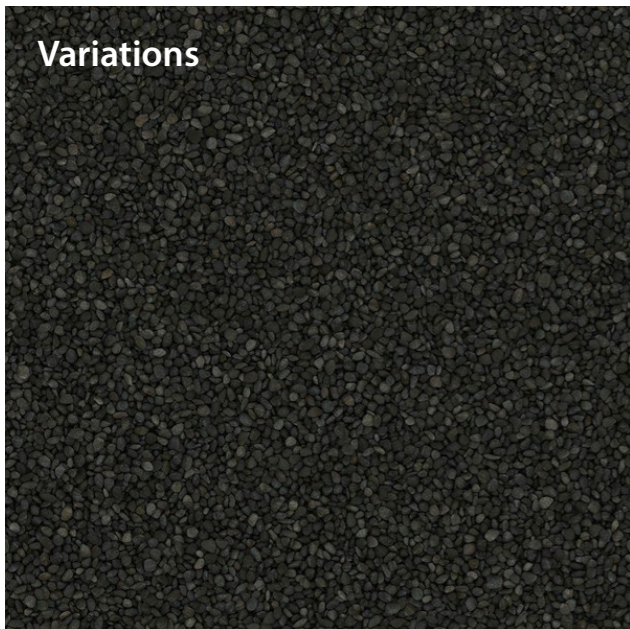
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

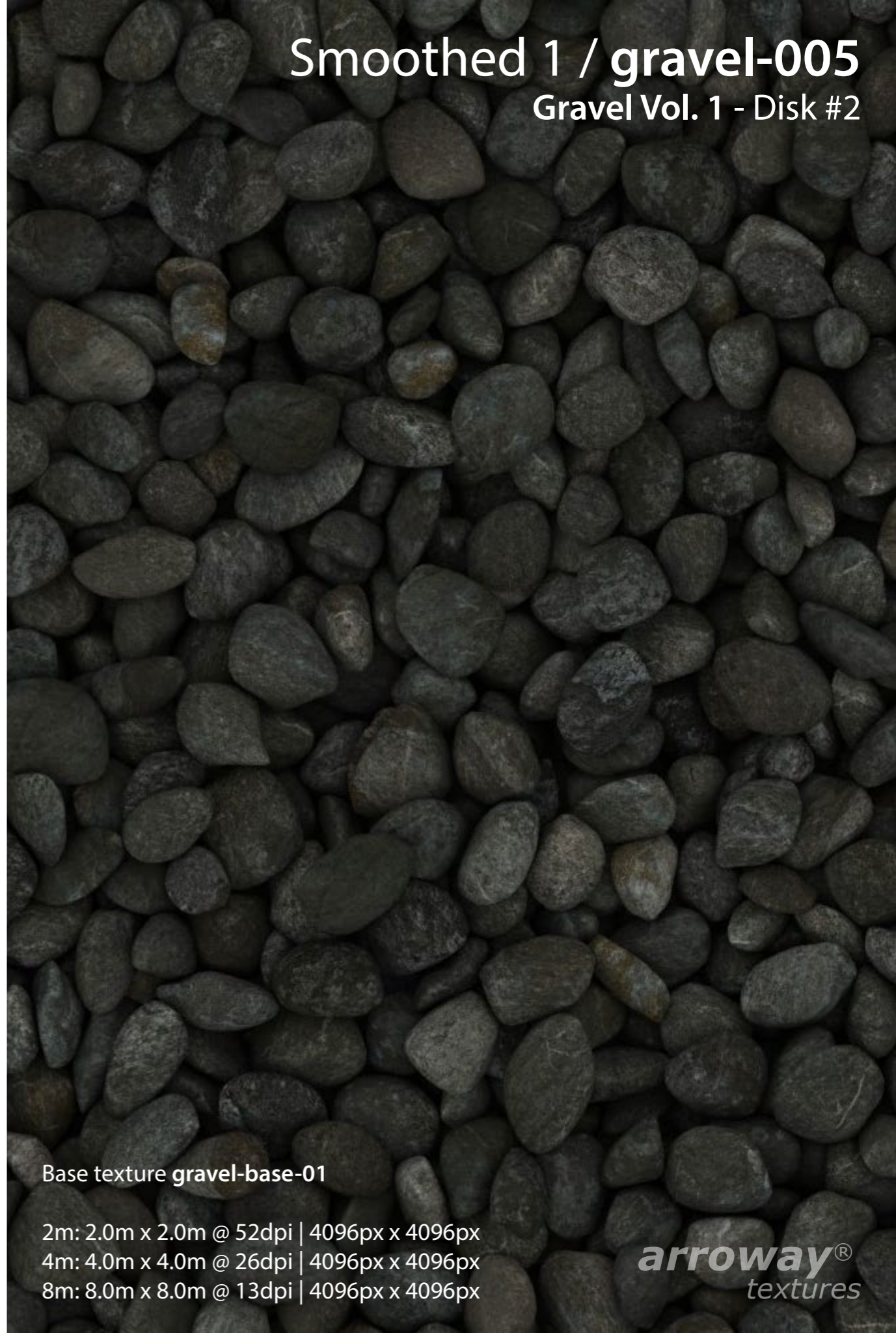
arroway[®]
textures

Variations



Smoothed 1 / gravel-005

Gravel Vol. 1 - Disk #2



Base texture gravel-base-01

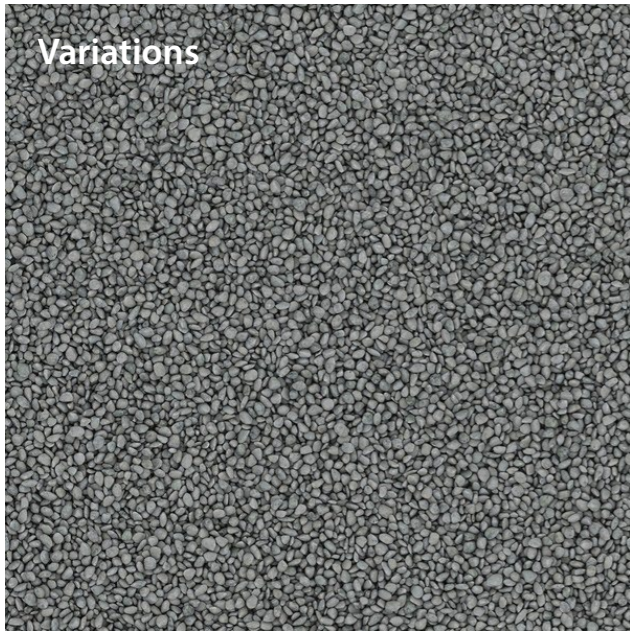
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 1 / gravel-006

Gravel Vol. 1 - Disk #2



Base texture gravel-base-01

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

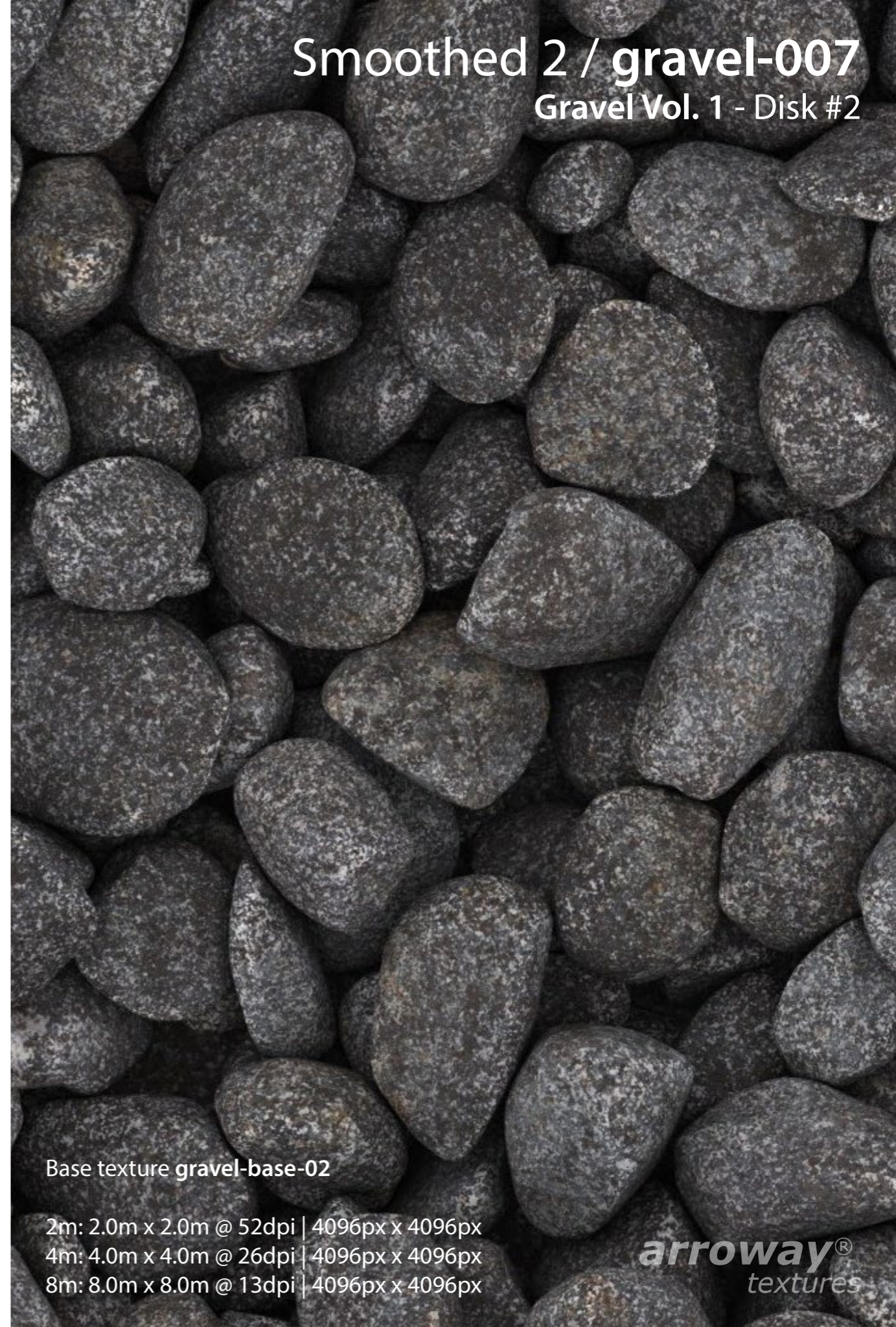
arroway[®]
textures

Variations



Smoothed 2 / gravel-007

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 2 / gravel-008

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

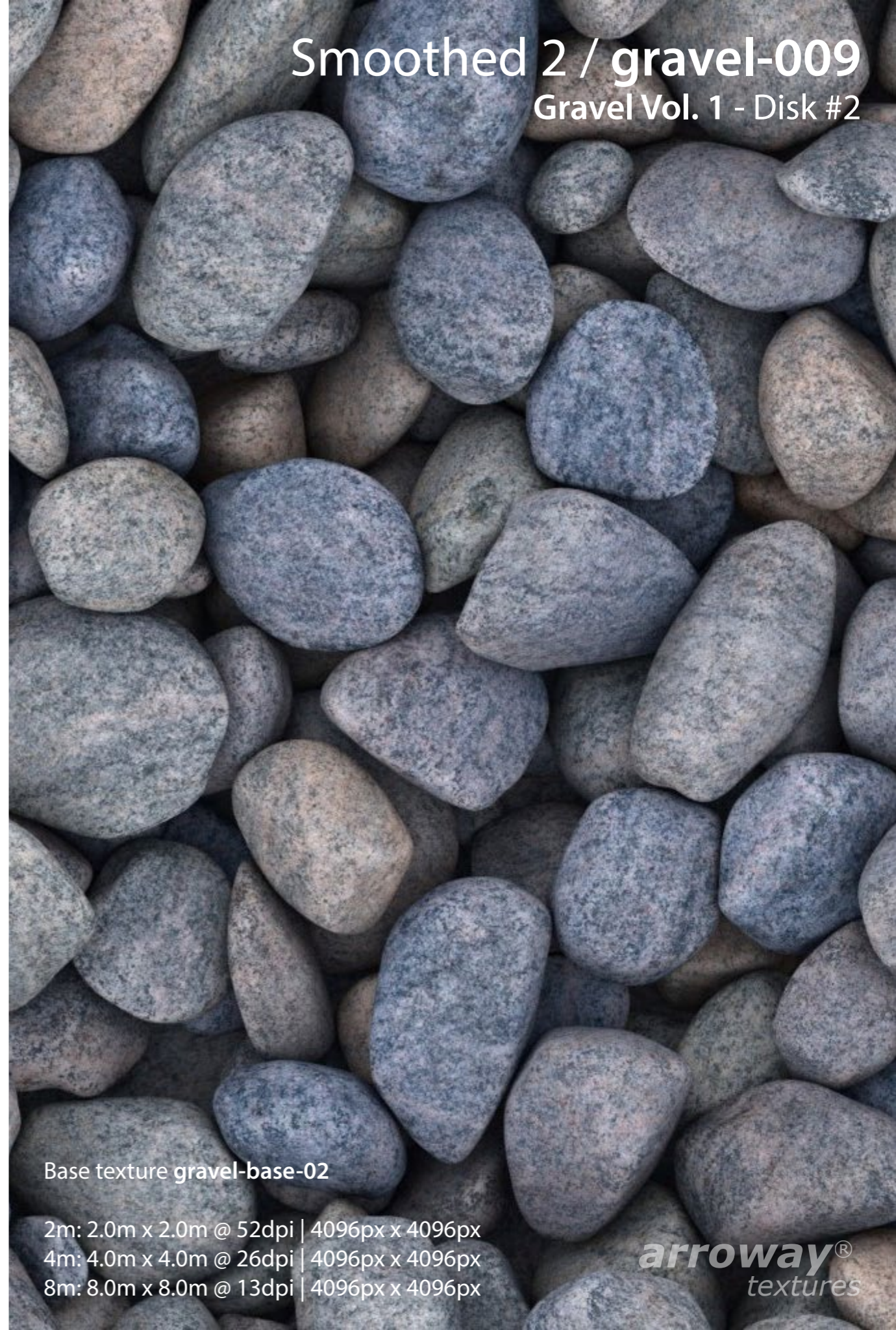
arroway[®]
textures

Variations



Smoothed 2 / gravel-009

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

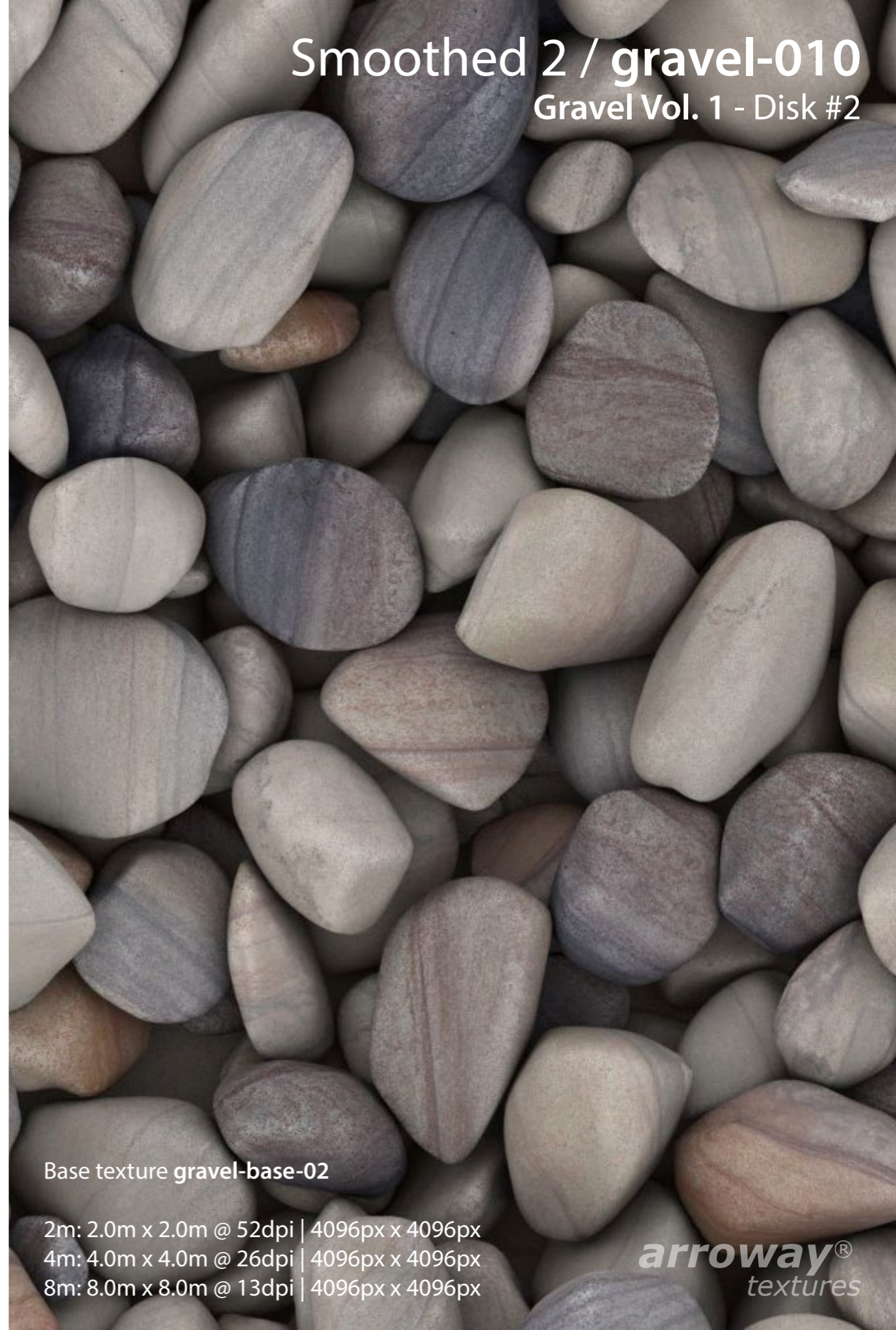
arroway[®]
textures

Variations



Smoothed 2 / gravel-010

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

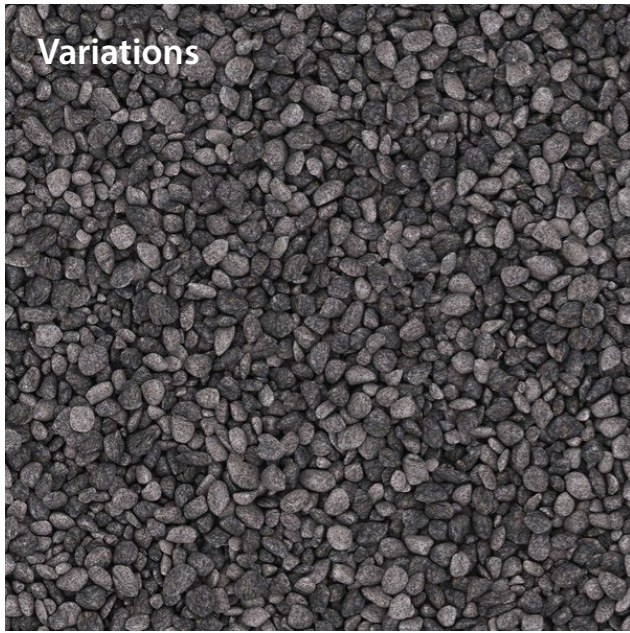
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 2 / gravel-011

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

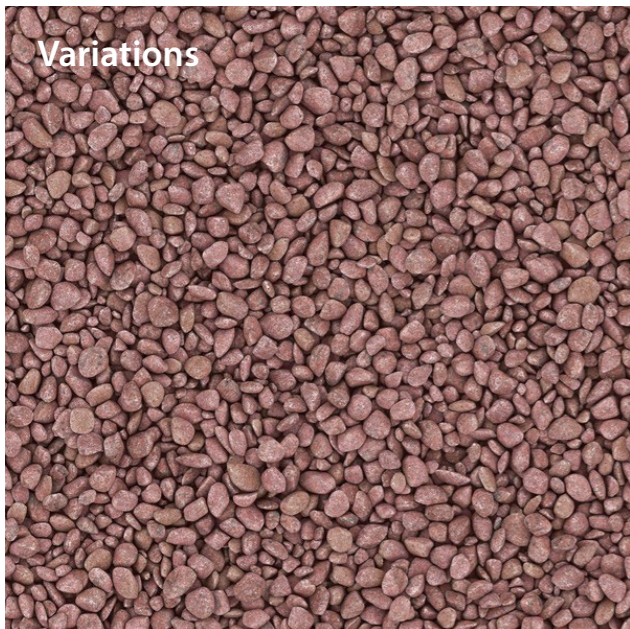
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 2 / gravel-012

Gravel Vol. 1 - Disk #2

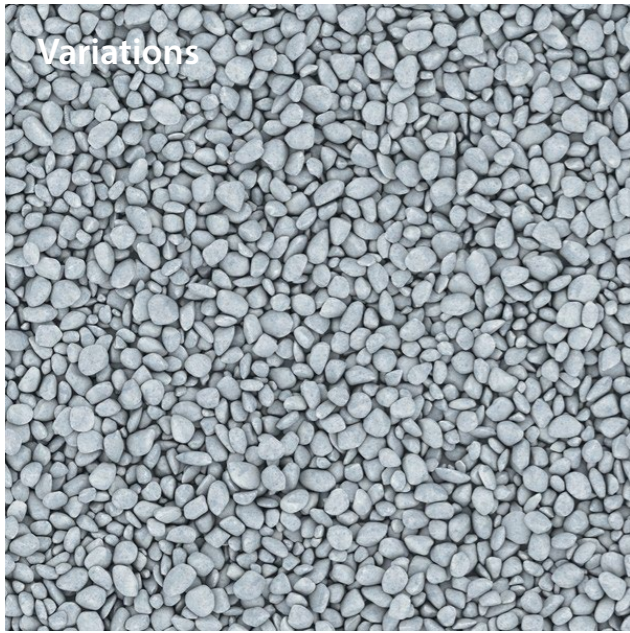


Base texture gravel-base-02

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 2 / gravel-013

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

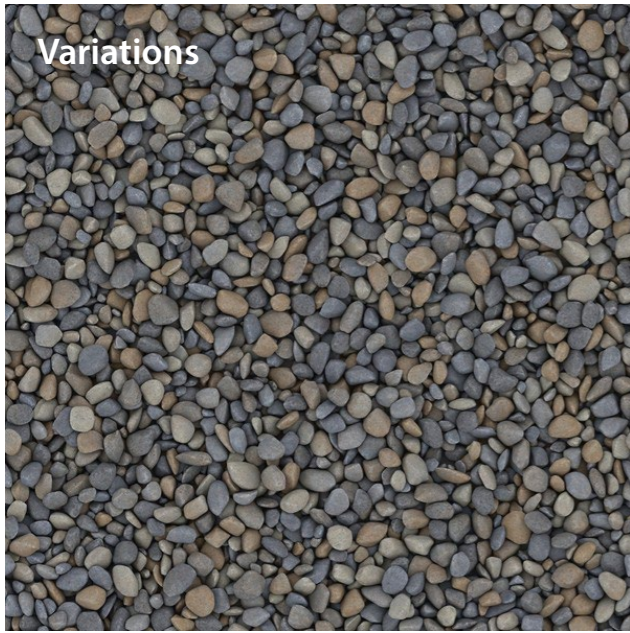
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

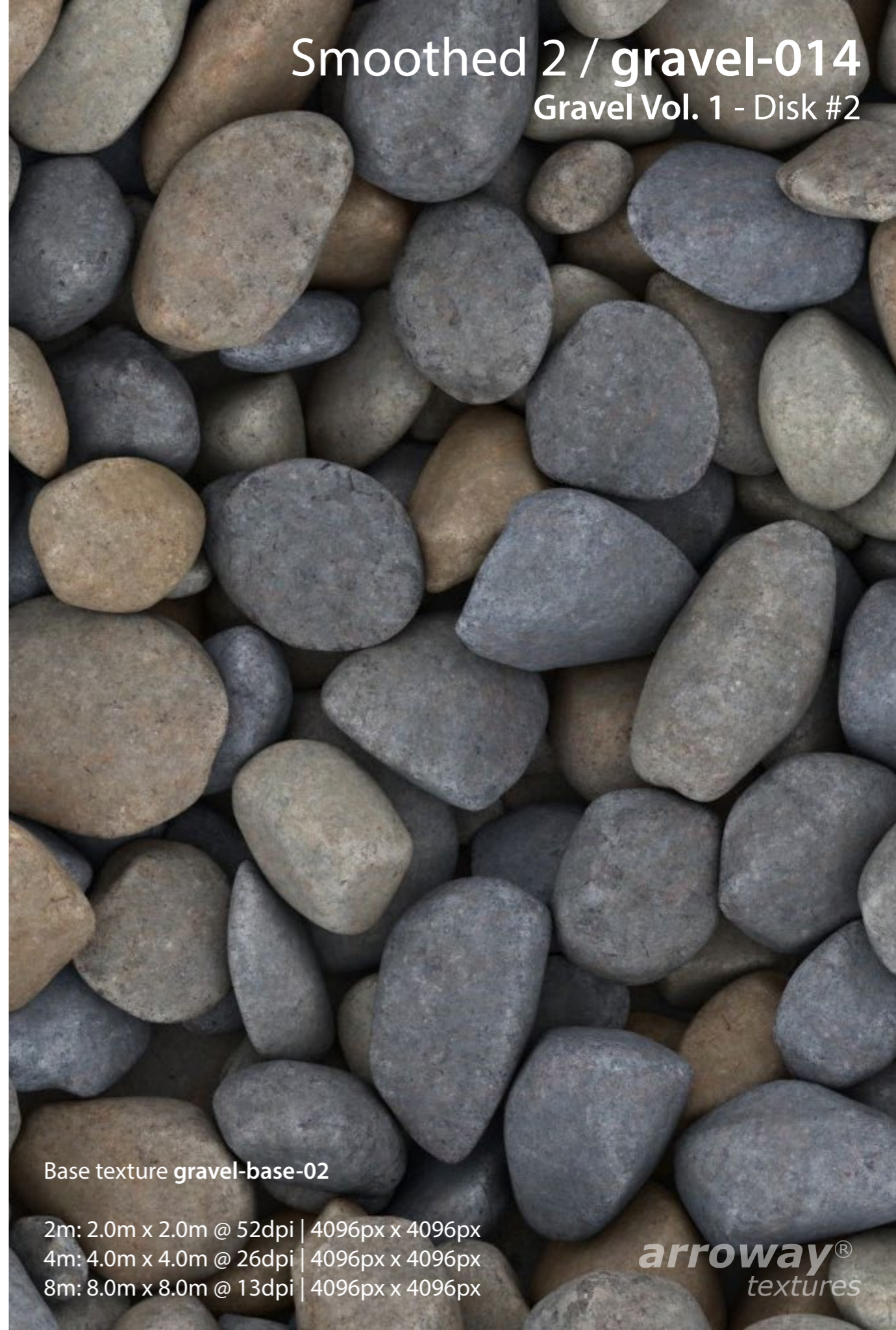
arroway[®]
textures

Variations



Smoothed 2 / gravel-014

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

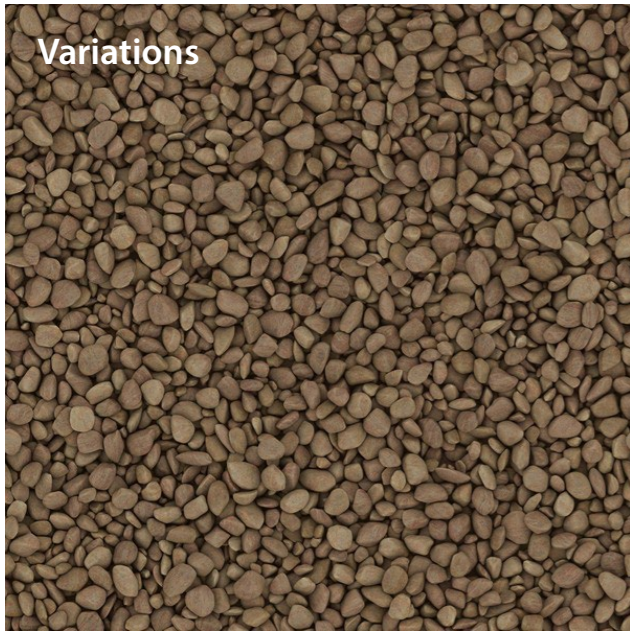
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 2 / gravel-015

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

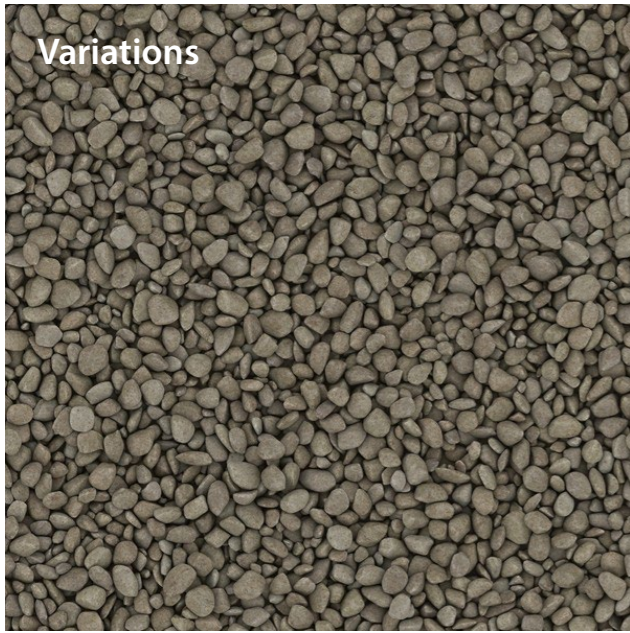
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

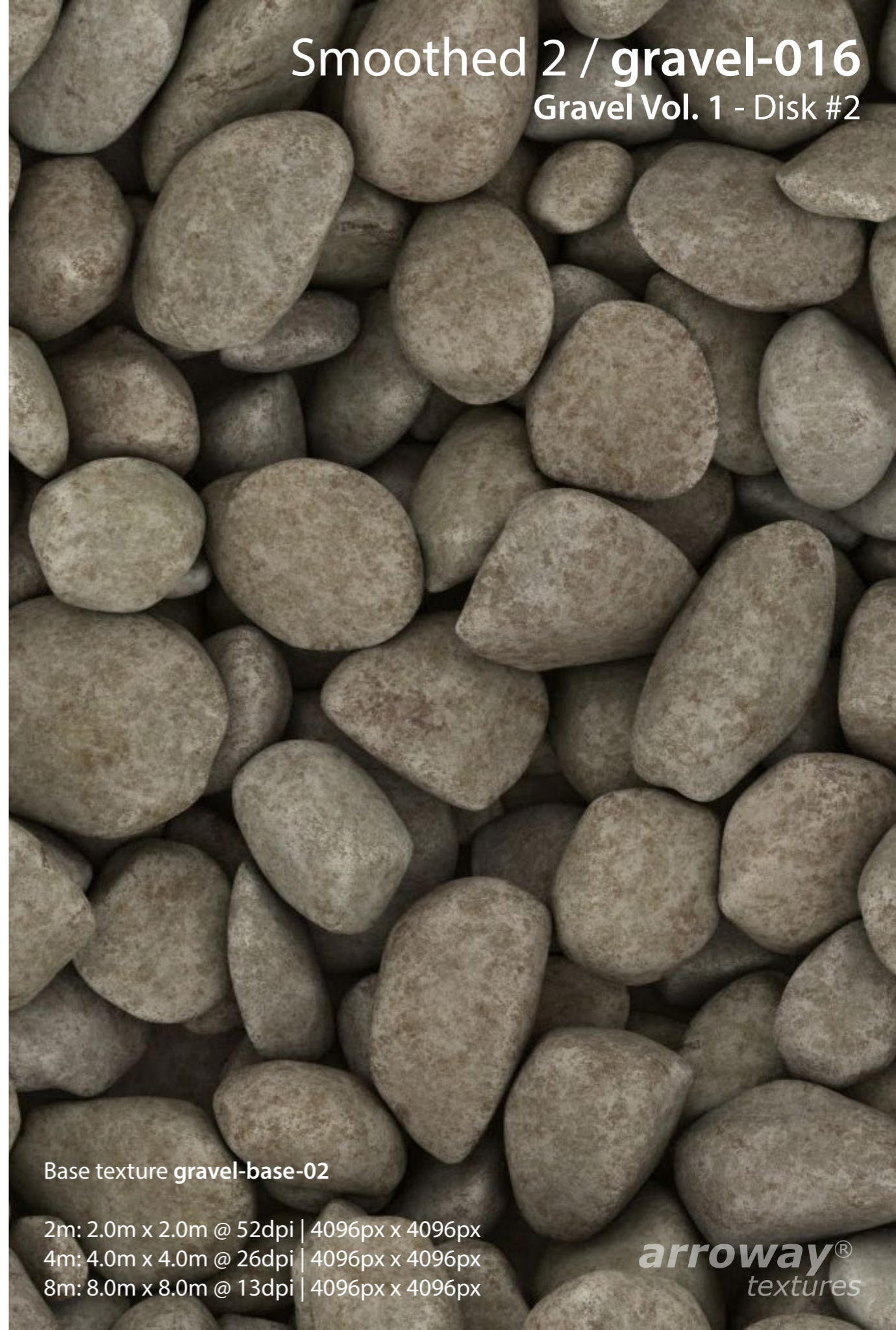
arroway[®]
textures

Variations



Smoothed 2 / gravel-016

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

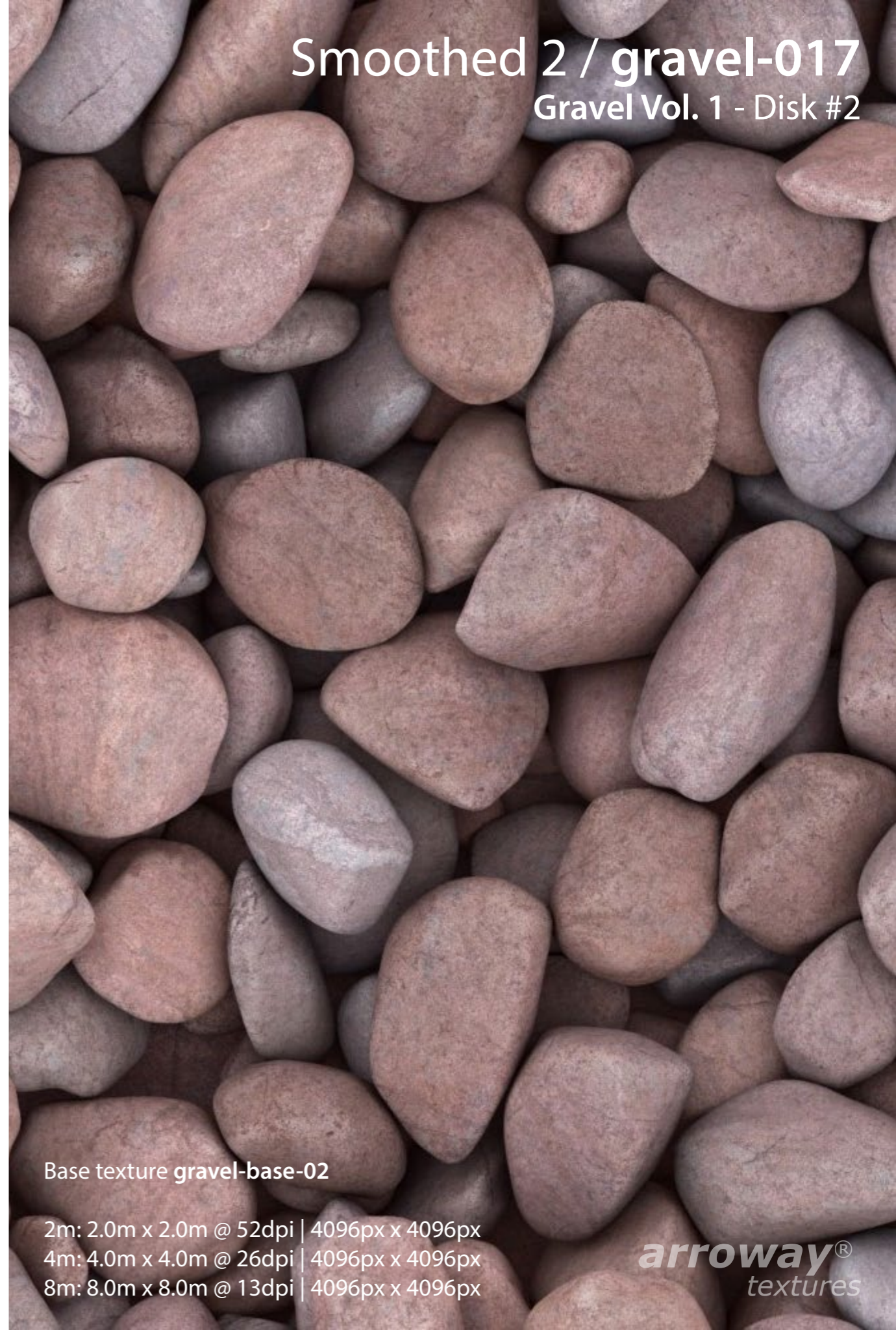
arroway[®]
textures

Variations



Smoothed 2 / gravel-017

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

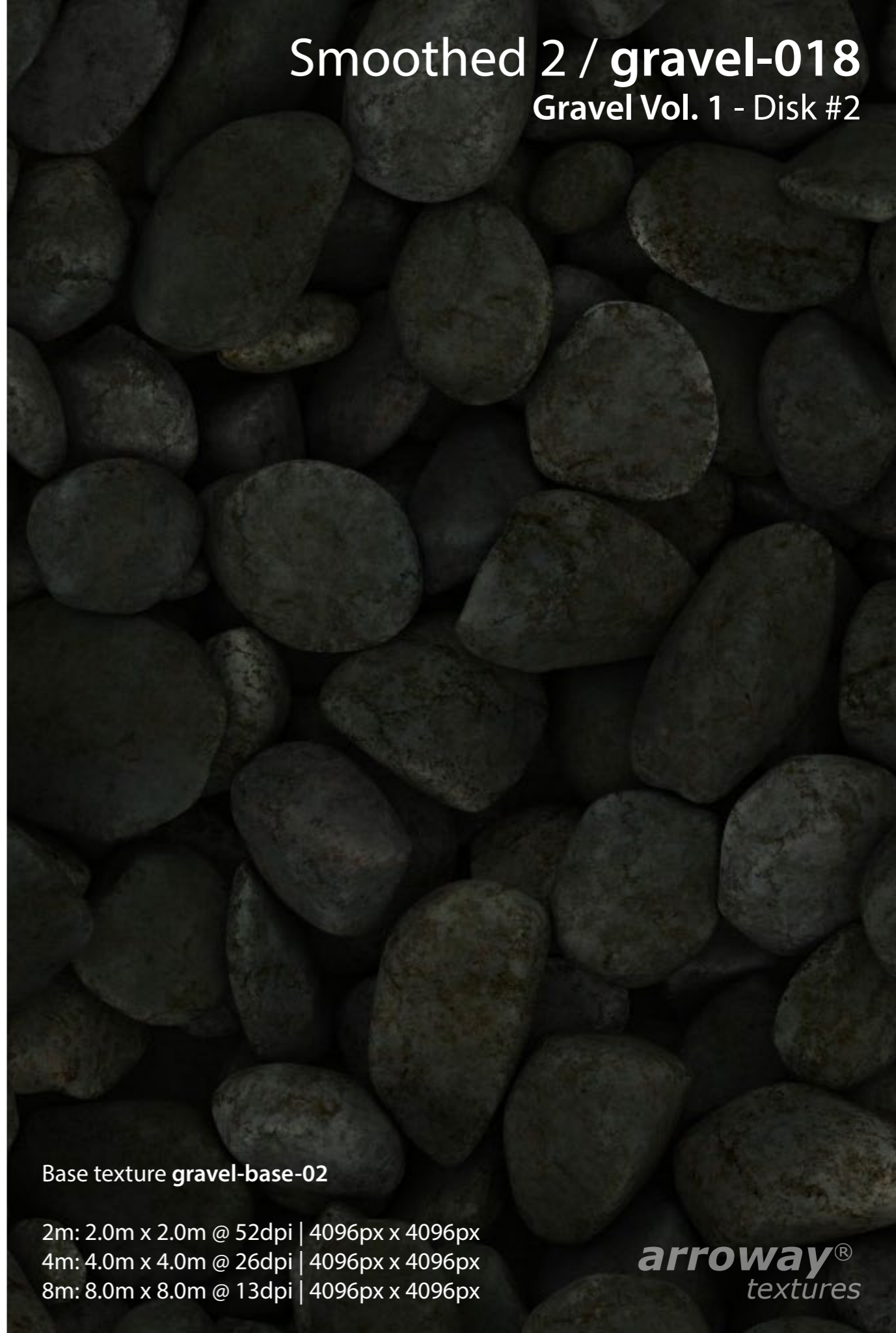
arroway[®]
textures

Variations



Smoothed 2 / gravel-018

Gravel Vol. 1 - Disk #2



Base texture gravel-base-02

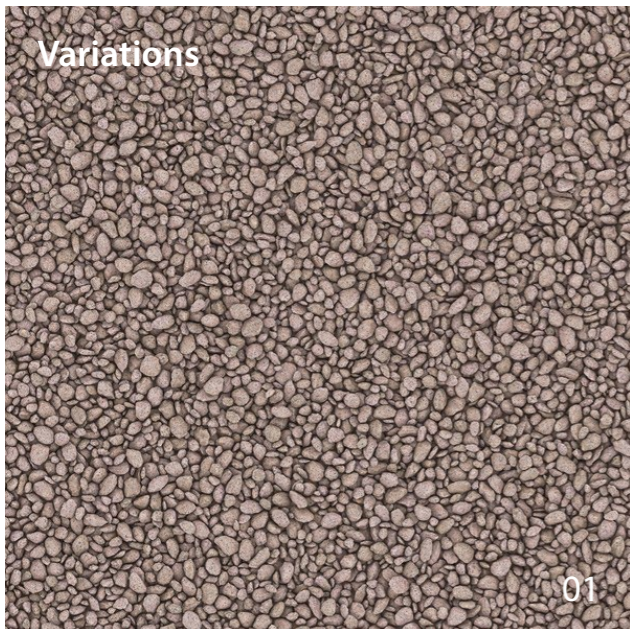
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

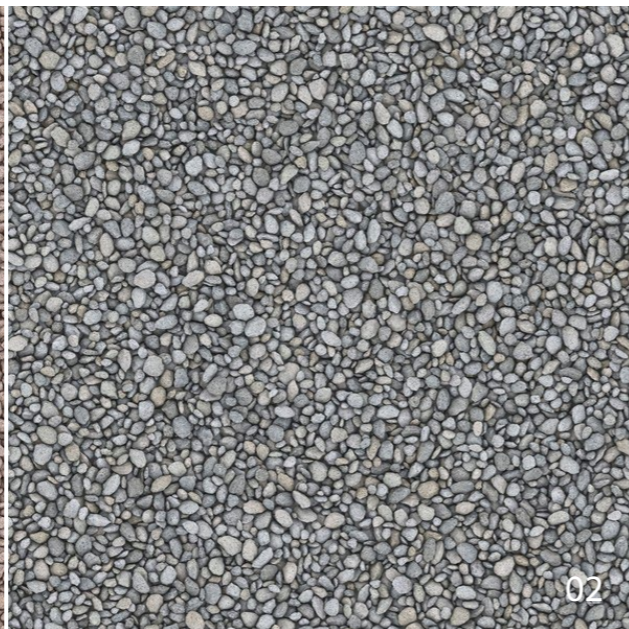
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Smoothed 3 / gravel-019

Gravel Vol. 1 - Disk #2



Base texture gravel-base-03

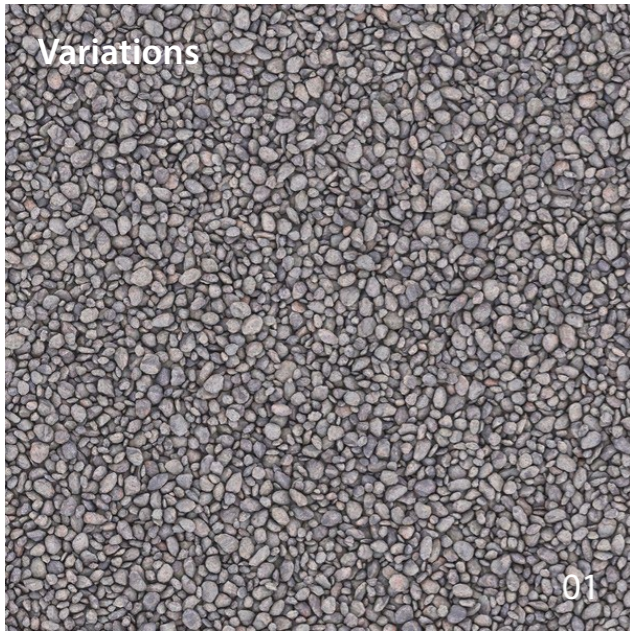
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

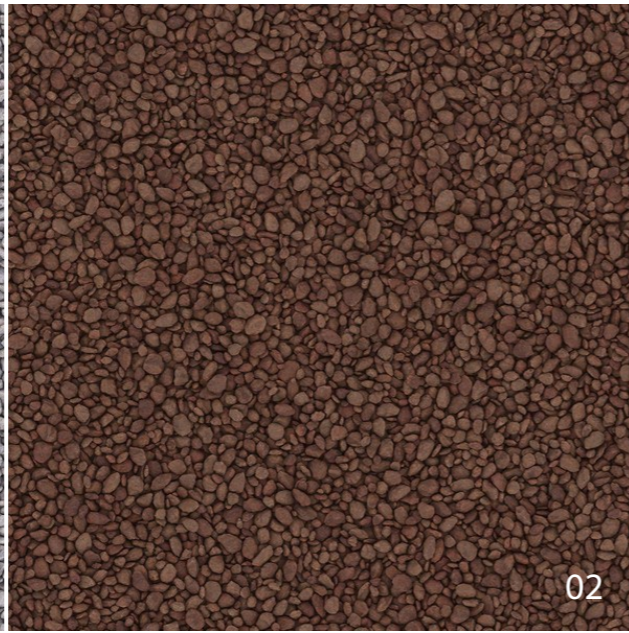
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Smoothed 3 / gravel-020

Gravel Vol. 1 - Disk #2



Base texture gravel-base-03

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Smoothed 3 / gravel-021

Gravel Vol. 1 - Disk #2

Base texture gravel-base-03

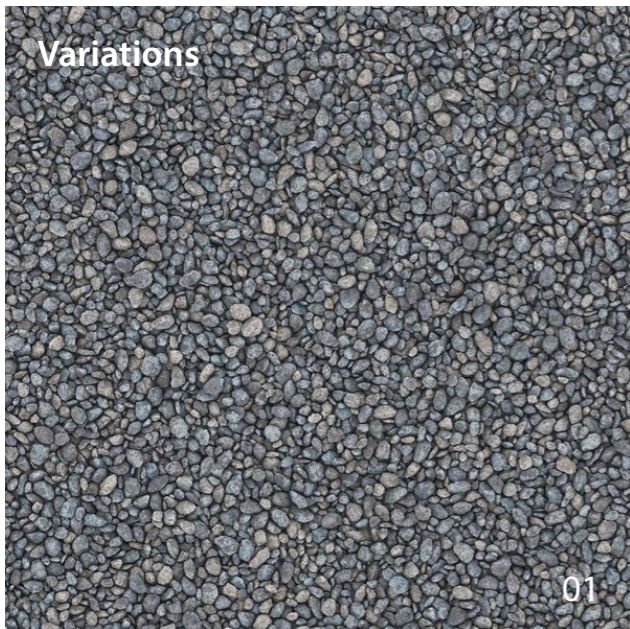
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

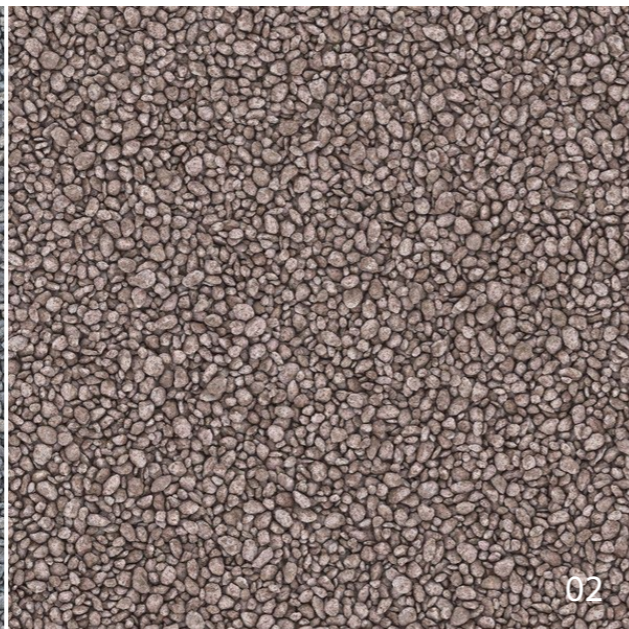
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



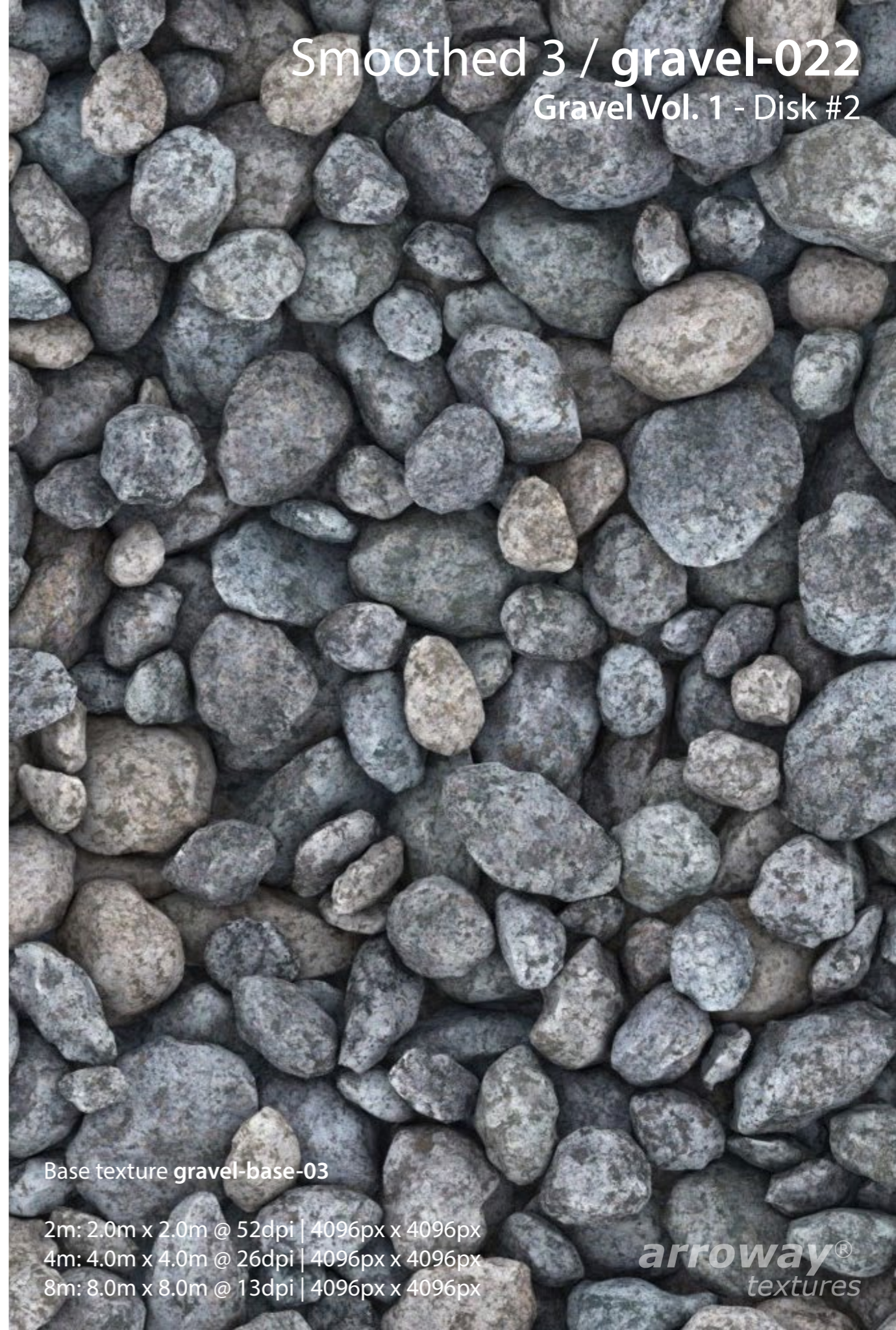
01



02

Smoothed 3 / gravel-022

Gravel Vol. 1 - Disk #2

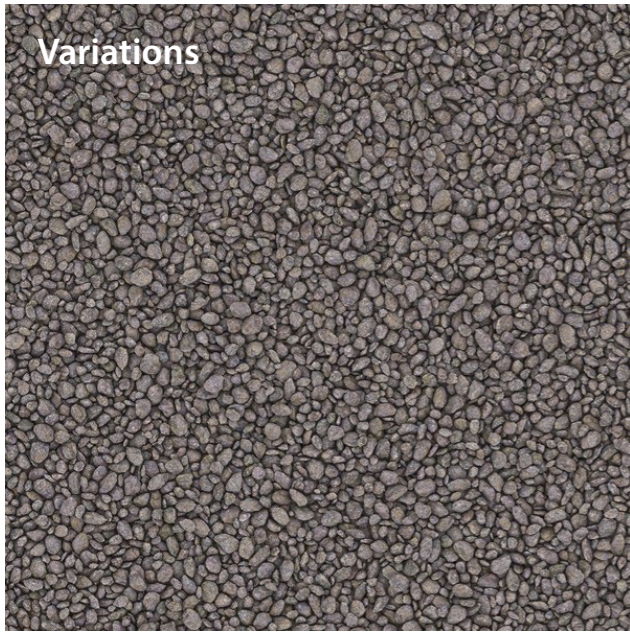


Base texture gravel-base-03

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Smoothed 3 / gravel-023

Gravel Vol. 1 - Disk #2



Base texture gravel-base-03

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

04

05

06

07

Smoothed 4 / gravel-024

Gravel Vol. 1 - Disk #2

Base texture gravel-base-04

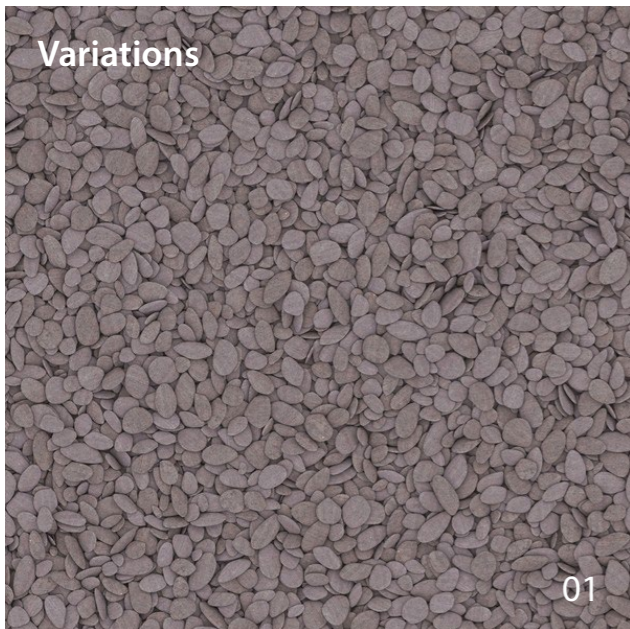
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

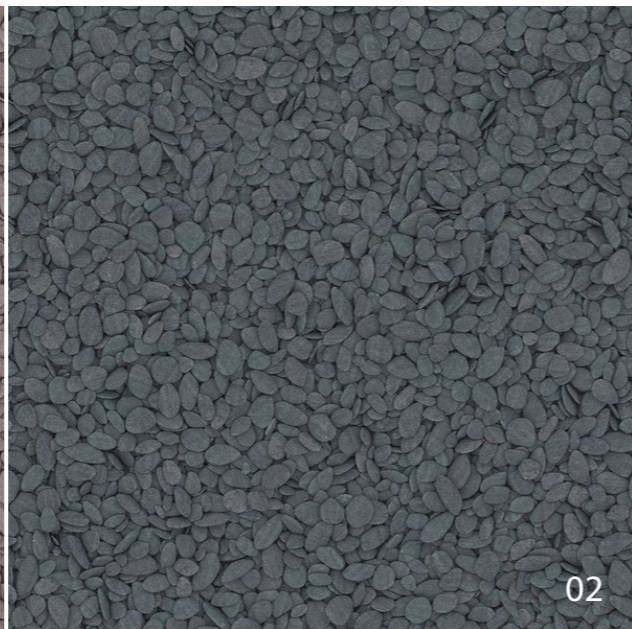
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02



03

Smoothed 4 / gravel-025

Gravel Vol. 1 - Disk #2



Base texture gravel-base-04

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

04

05

Pebbles 1 / gravel-026

Gravel Vol. 1 - Disk #2

Base texture gravel-base-05

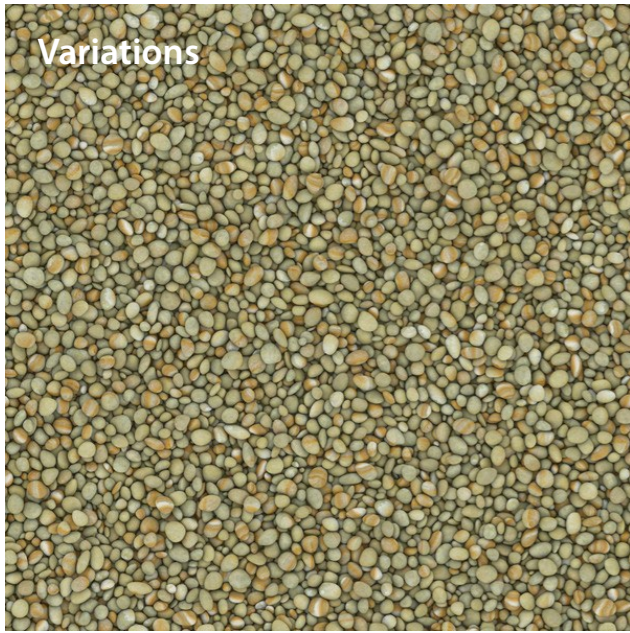
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Pebbles 1 / gravel-027

Gravel Vol. 1 - Disk #2



Base texture gravel-base-05

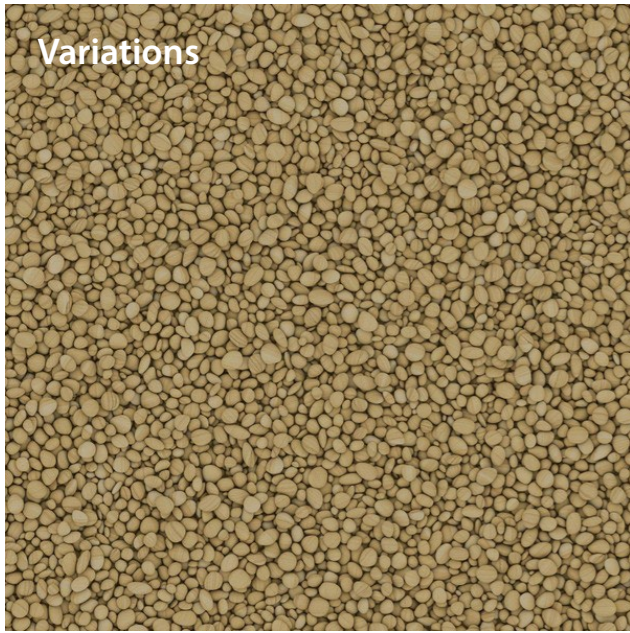
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Pebbles 1 / gravel-028

Gravel Vol. 1 - Disk #2



Base texture gravel-base-05

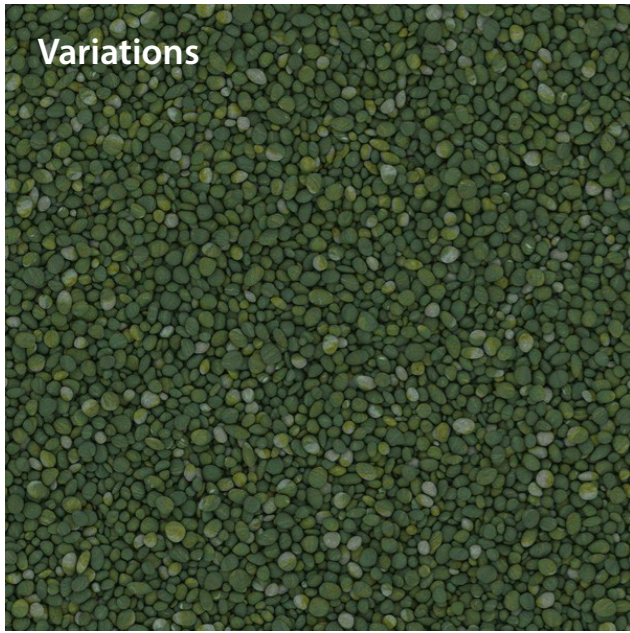
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

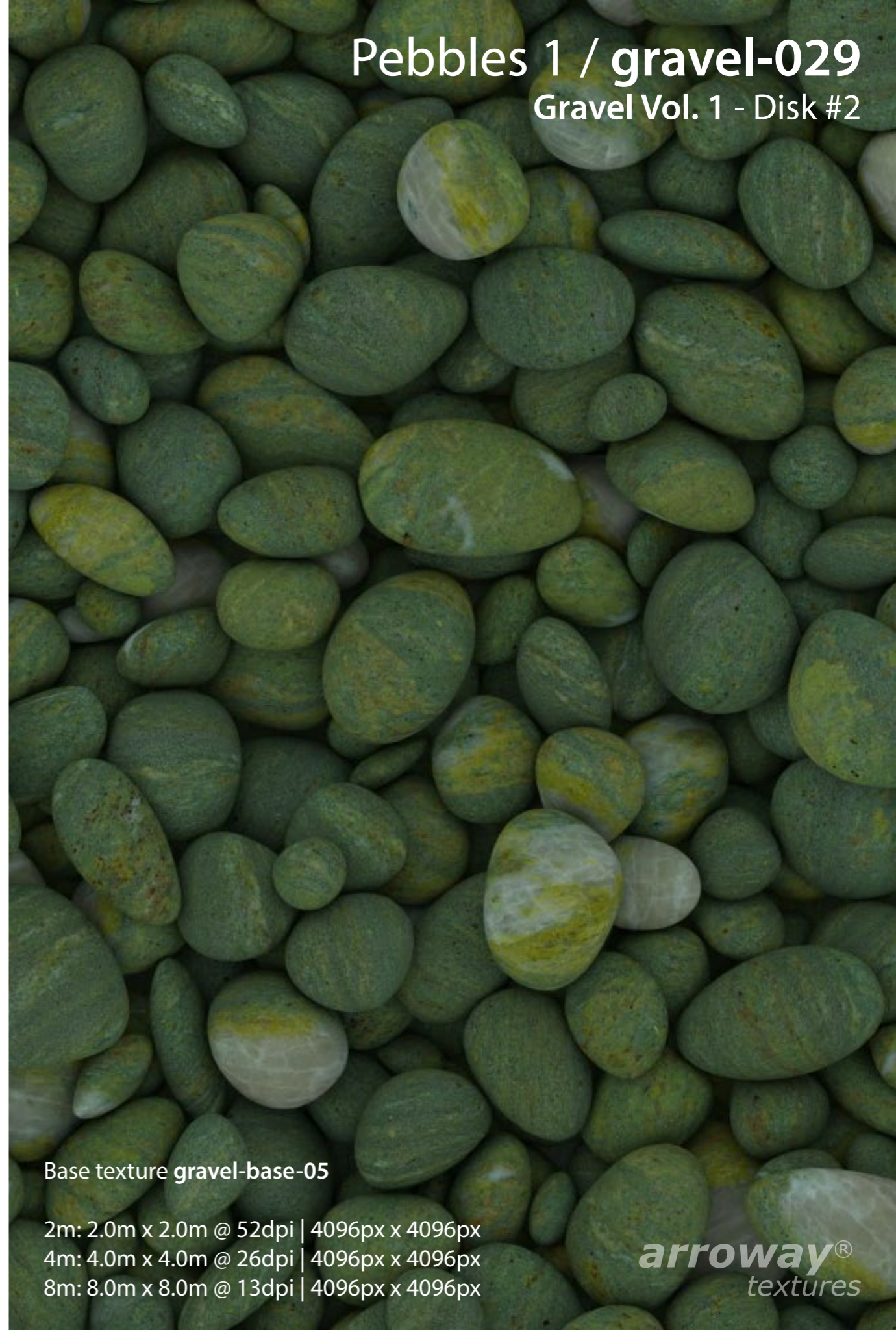
arroway[®]
textures

Variations



Pebbles 1 / gravel-029

Gravel Vol. 1 - Disk #2



Base texture gravel-base-05

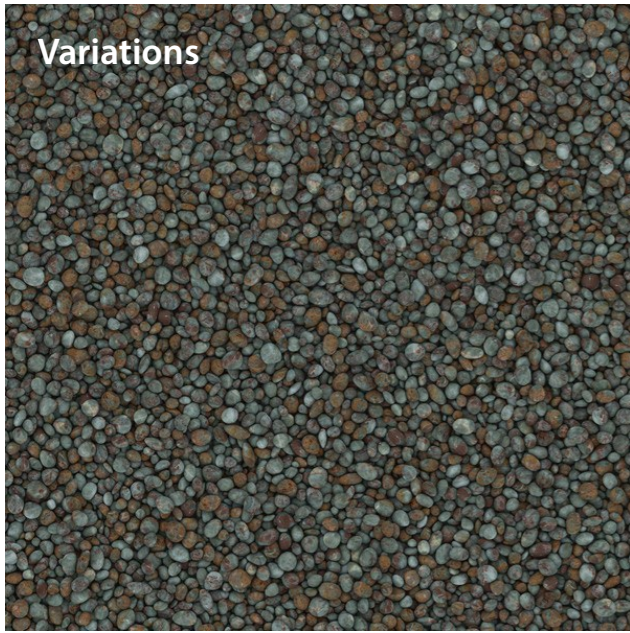
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

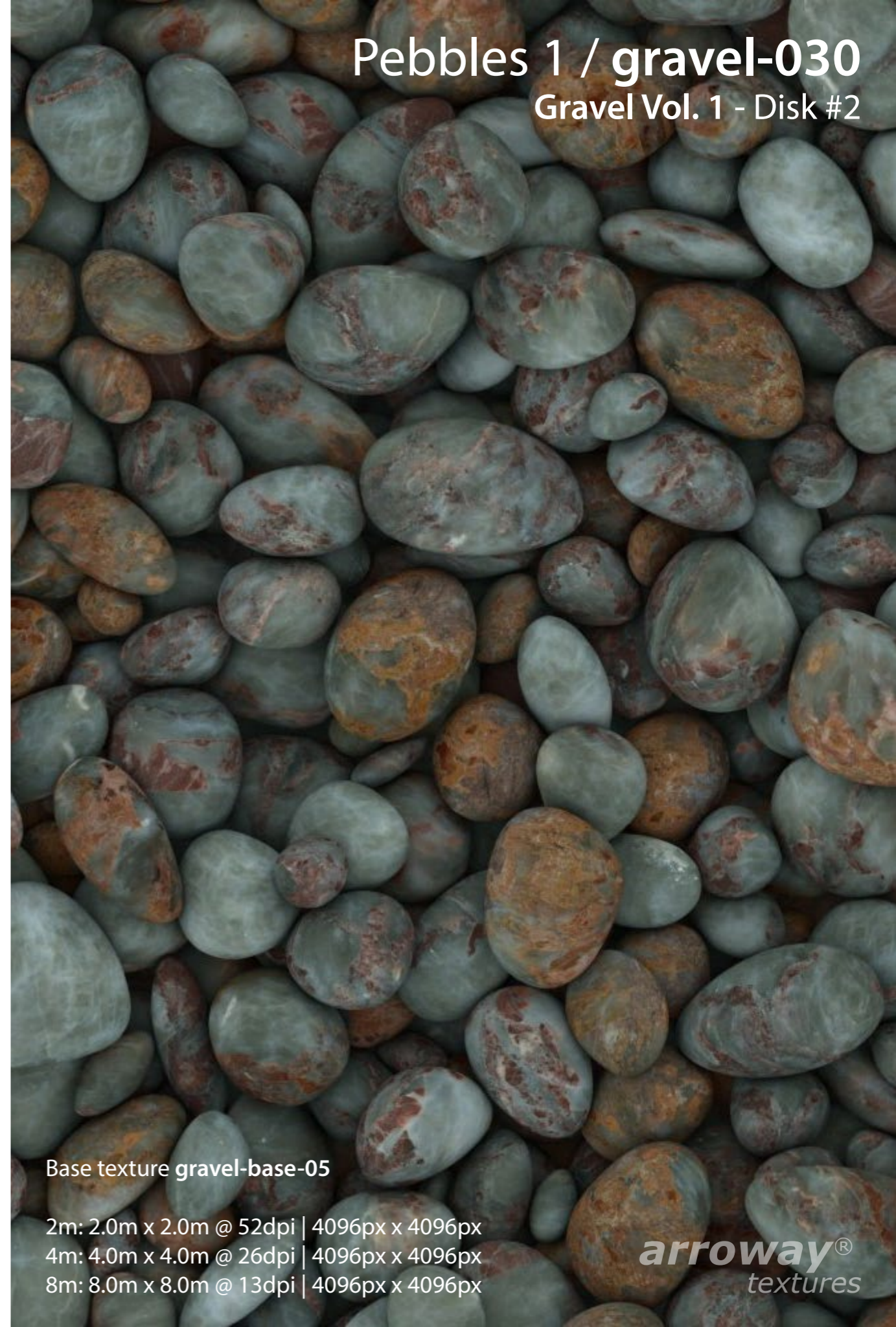
arroway[®]
textures

Variations



Pebbles 1 / gravel-030

Gravel Vol. 1 - Disk #2



Base texture gravel-base-05

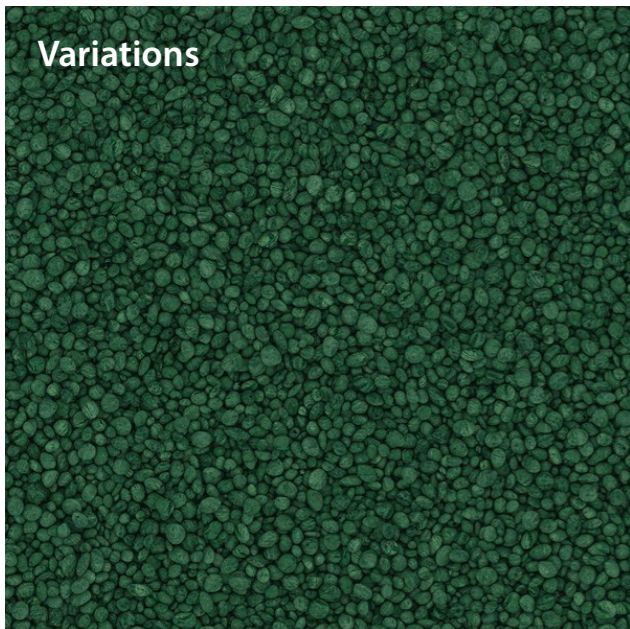
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Pebbles 1 / gravel-031

Gravel Vol. 1 - Disk #2



Base texture gravel-base-05

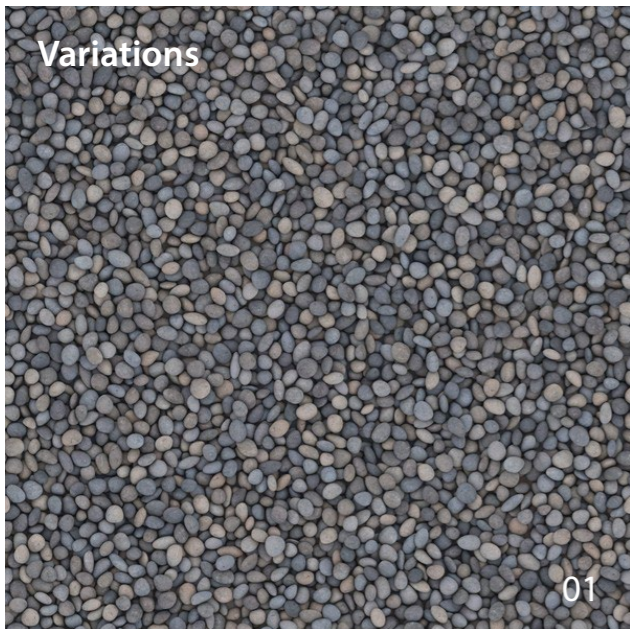
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

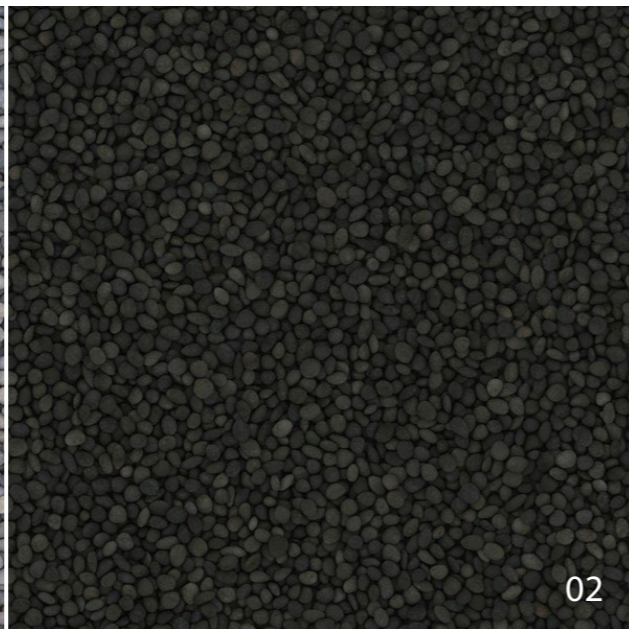
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

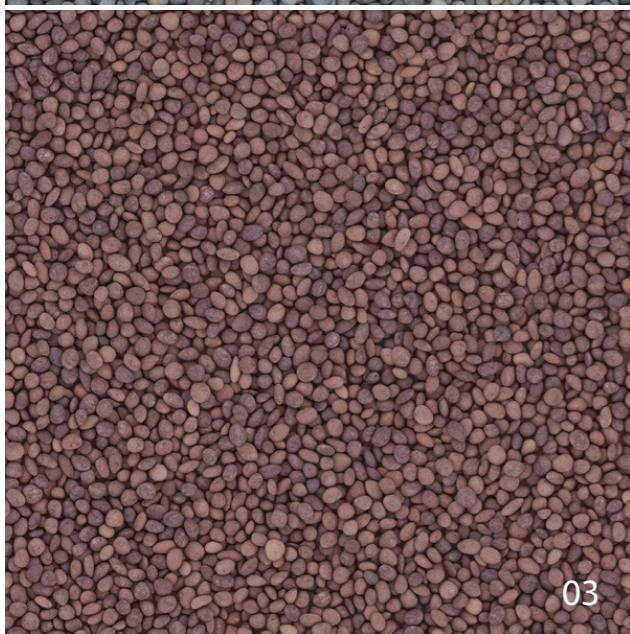
Variations



01



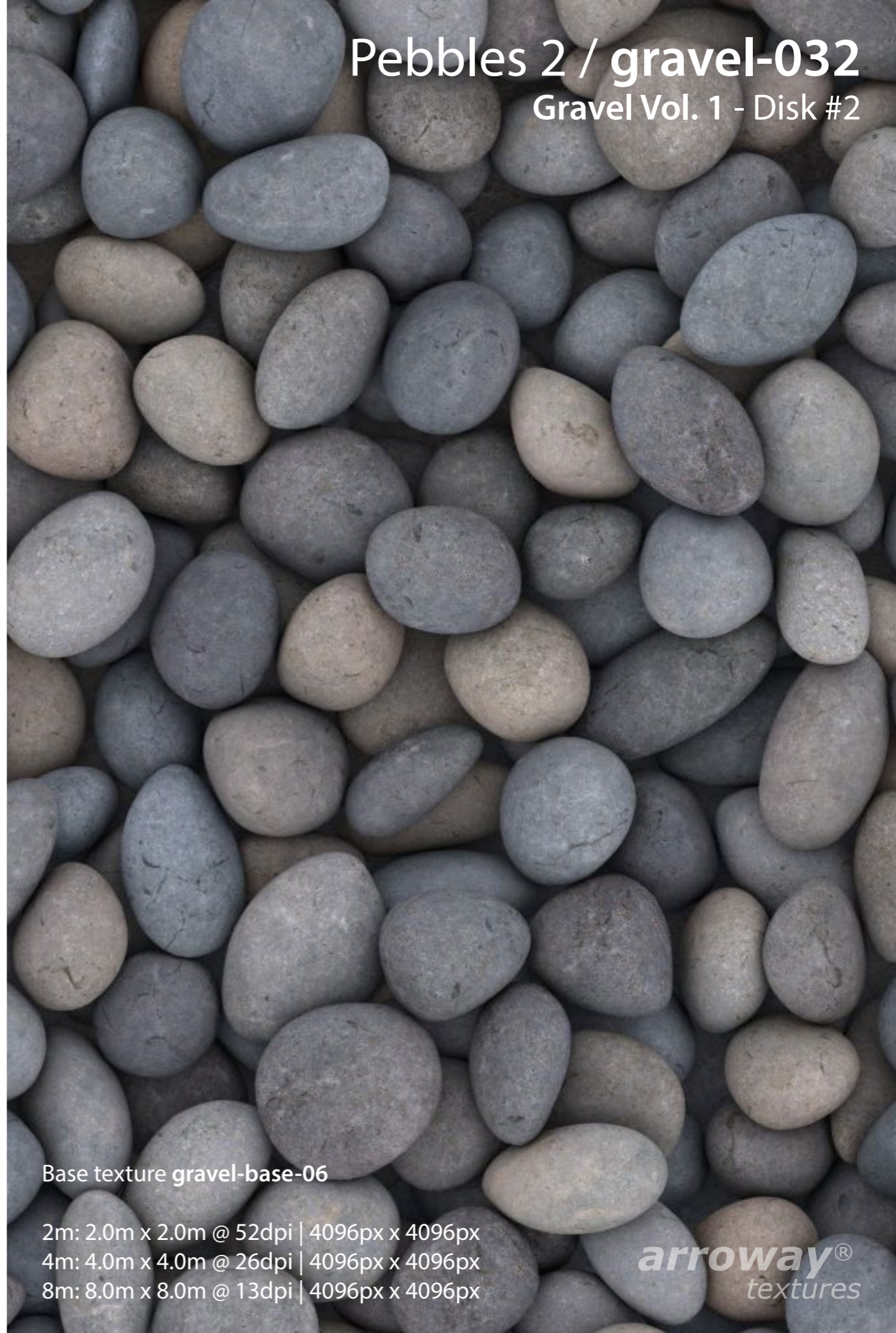
02



03

Pebbles 2 / gravel-032

Gravel Vol. 1 - Disk #2



Base texture gravel-base-06

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

04

Pebbles 2 / gravel-033

Gravel Vol. 1 - Disk #2

Base texture gravel-base-06

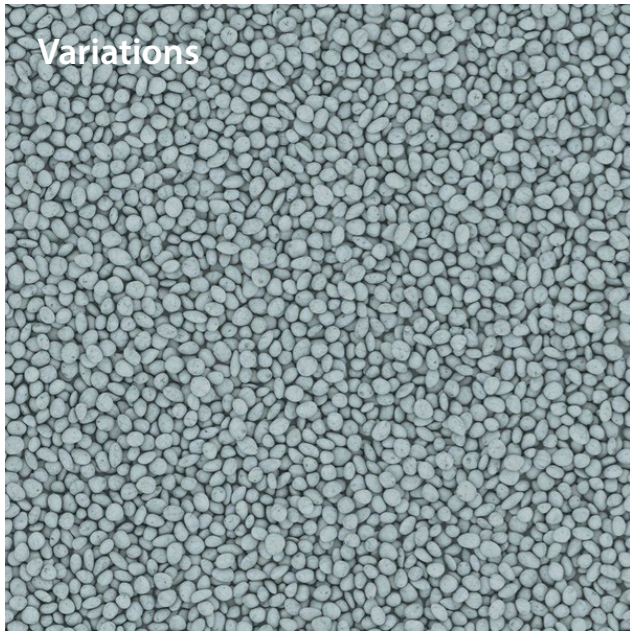
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Pebbles 2 / gravel-034

Gravel Vol. 1 - Disk #2



Base texture gravel-base-06

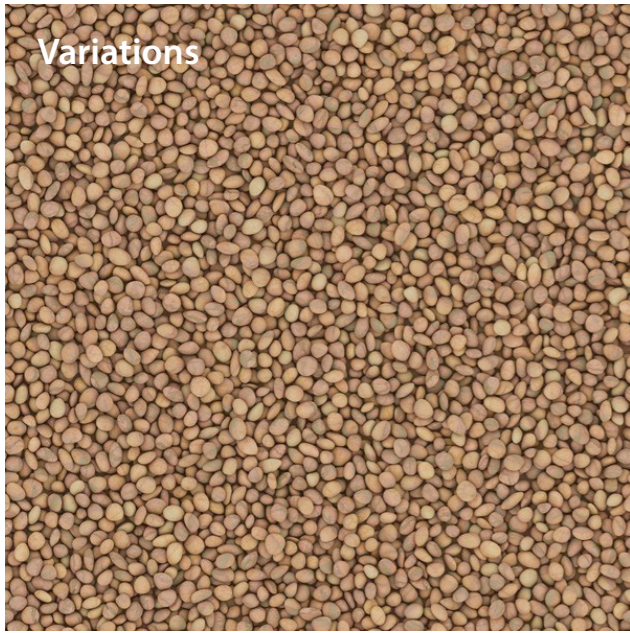
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Pebbles 2 / gravel-035

Gravel Vol. 1 - Disk #2



Base texture gravel-base-06

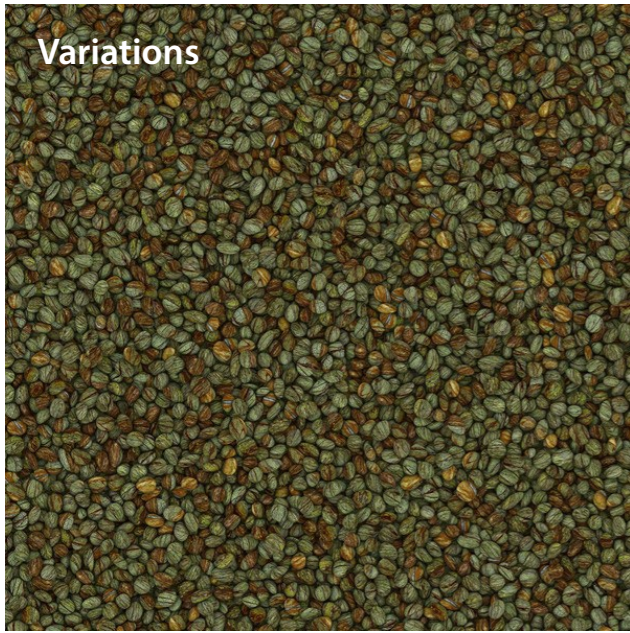
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

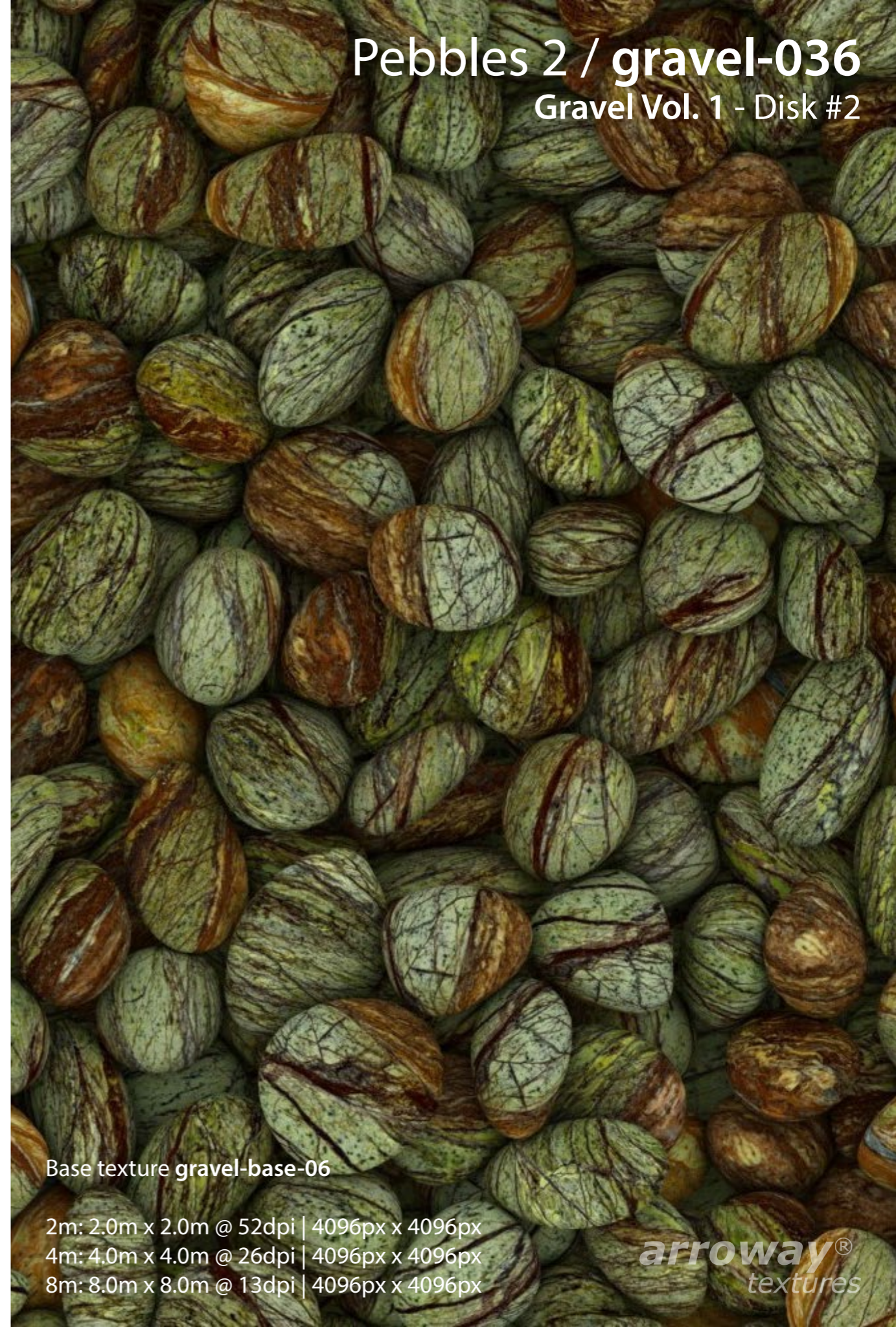
arroway[®]
textures

Variations



Pebbles 2 / gravel-036

Gravel Vol. 1 - Disk #2



Base texture gravel-base-06

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

Pebbles 3 / gravel-037

Gravel Vol. 1 - Disk #2

Base texture gravel-base-07

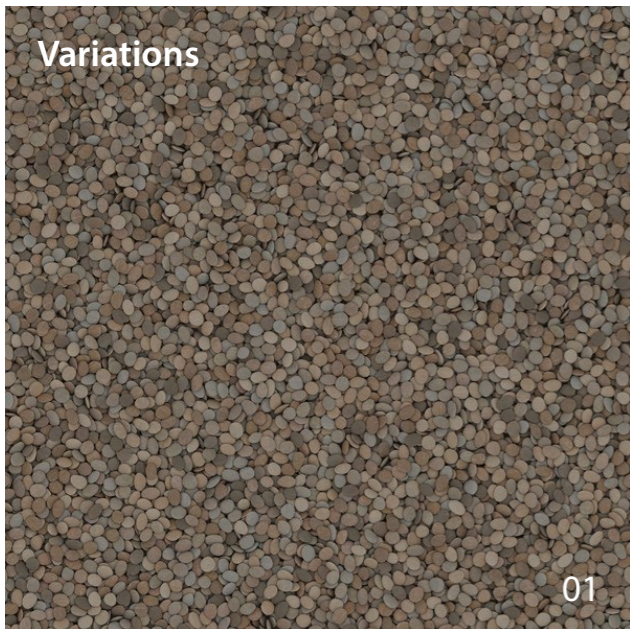
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

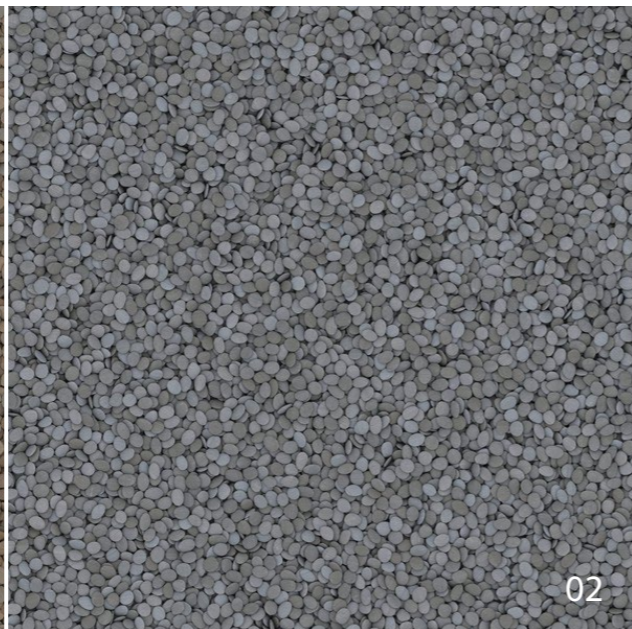
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Pebbles 3 / gravel-038

Gravel Vol. 1 - Disk #2



Base texture gravel-base-07

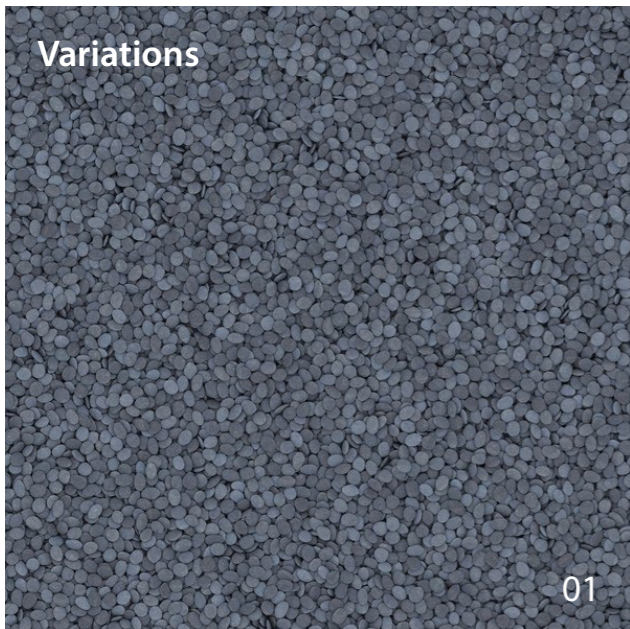
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

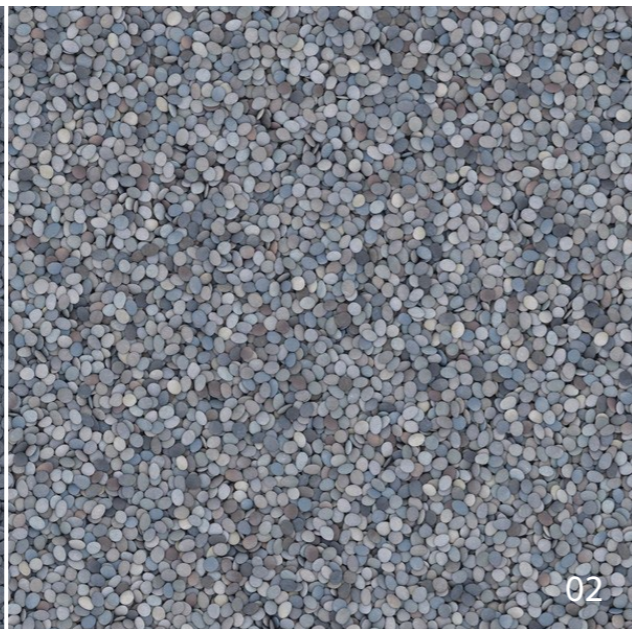
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Pebbles 3 / gravel-039

Gravel Vol. 1 - Disk #2



Base texture gravel-base-07

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

04

05

Pebbles 3 / gravel-040

Gravel Vol. 1 - Disk #2

Base texture gravel-base-07

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Slate 1 / gravel-041

Gravel Vol. 1 - Disk #2

Base texture gravel-base-08

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Slate 1 / gravel-042

Gravel Vol. 1 - Disk #2

Base texture gravel-base-08

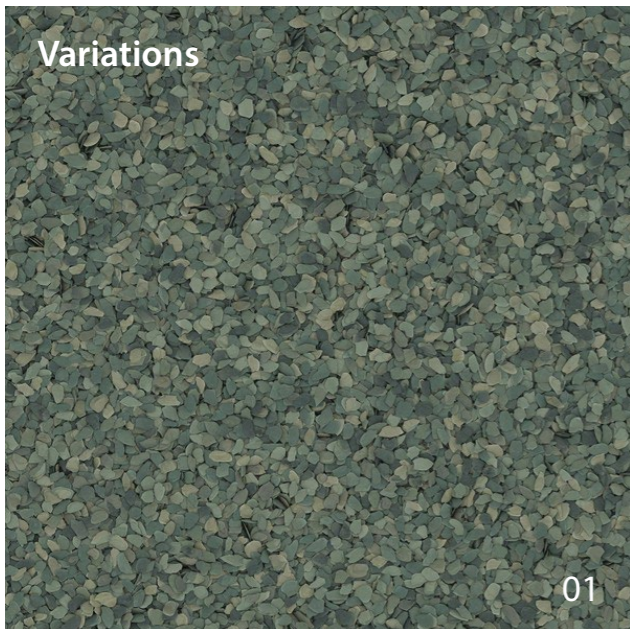
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

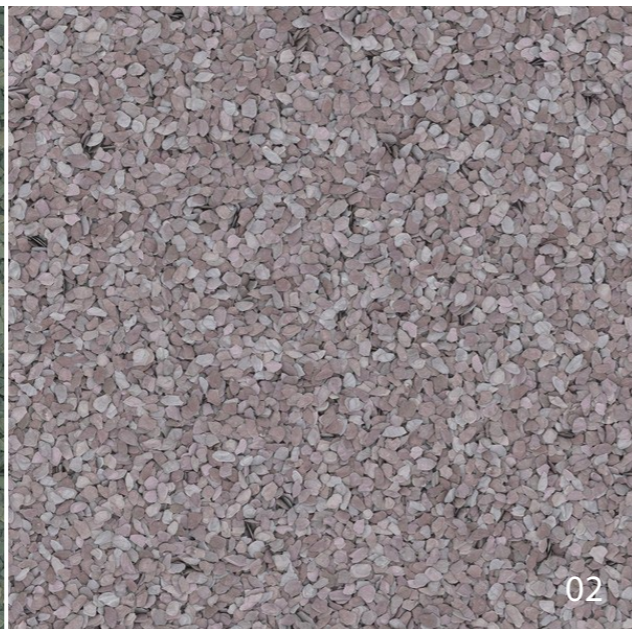
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Slate 1 / gravel-043

Gravel Vol. 1 - Disk #2



Base texture gravel-base-08

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Slate 2 / gravel-044

Gravel Vol. 1 - Disk #2

Base texture gravel-base-09

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

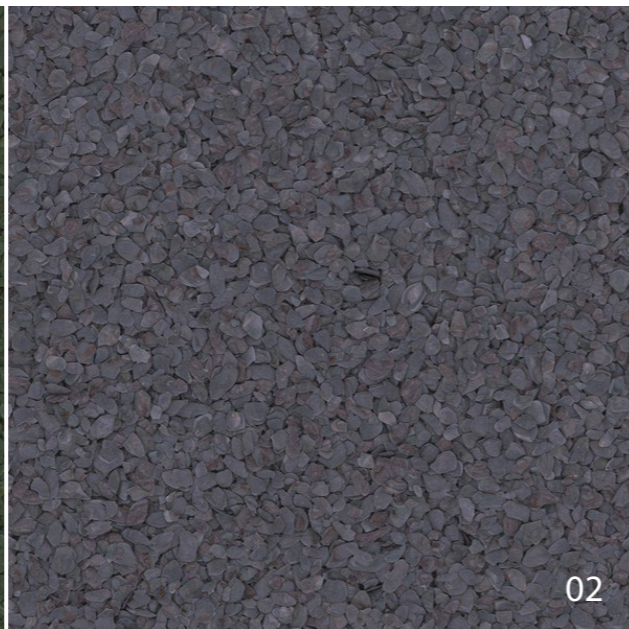
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Slate 2 / gravel-045

Gravel Vol. 1 - Disk #2



Base texture gravel-base-09

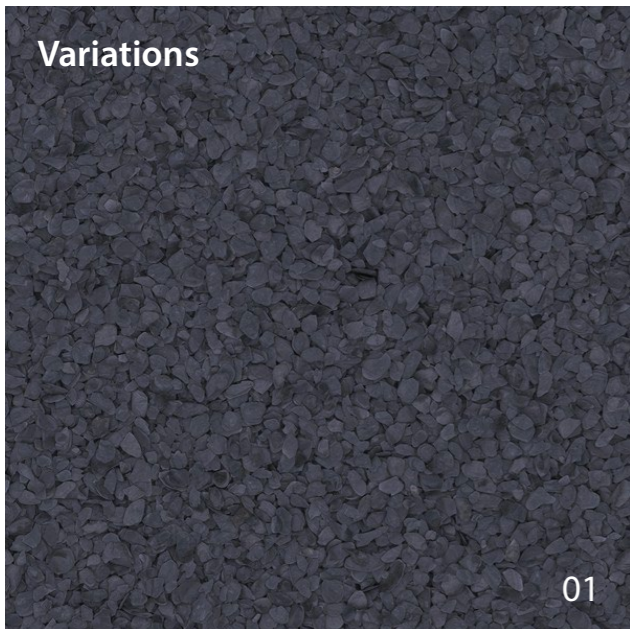
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

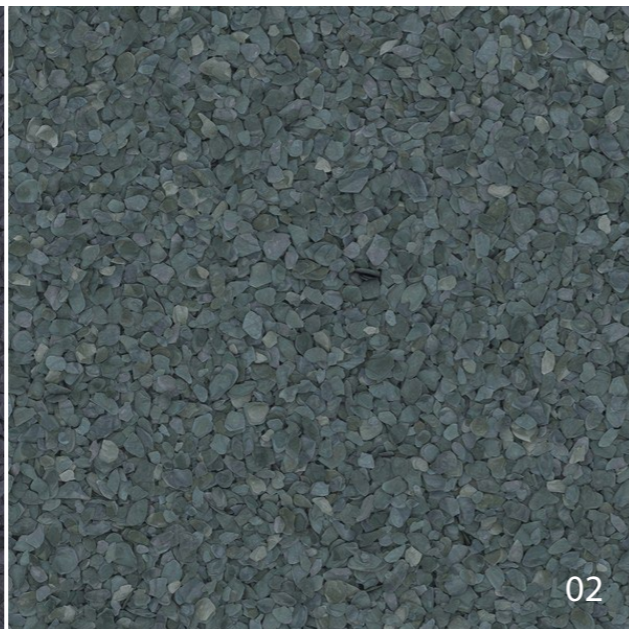
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



01



02

Slate 2 / gravel-046

Gravel Vol. 1 - Disk #2



Base texture gravel-base-09

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

04

Crushed 1 / gravel-047

Gravel Vol. 1 - Disk #2

Base texture gravel-base-10

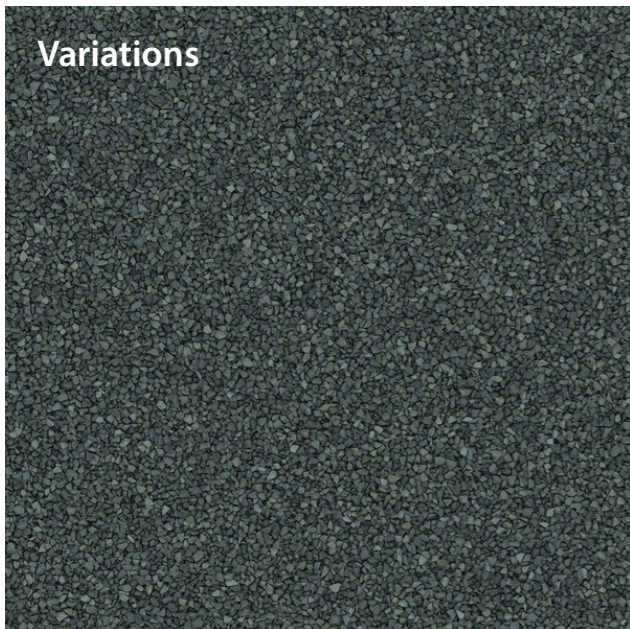
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway®
textures

Variations



Crushed 1 / gravel-048

Gravel Vol. 1 - Disk #2



Base texture gravel-base-10

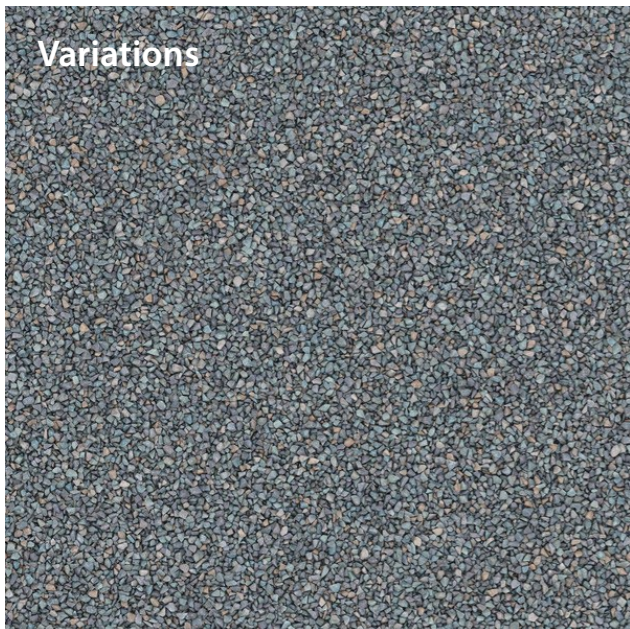
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 1 / gravel-049

Gravel Vol. 1 - Disk #2



Base texture gravel-base-10

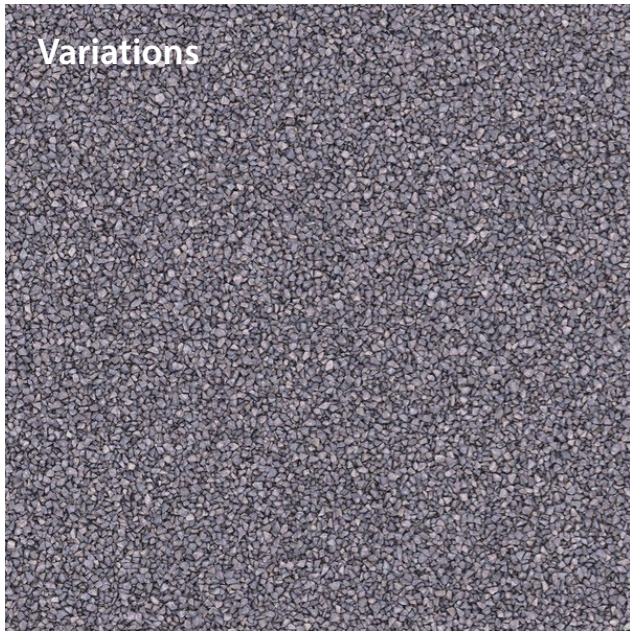
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 1 / gravel-050

Gravel Vol. 1 - Disk #2



Base texture gravel-base-10

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 1 / gravel-051

Gravel Vol. 1 - Disk #2



Base texture gravel-base-10

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Crushed 1 / gravel-052

Gravel Vol. 1 - Disk #2

Base texture gravel-base-10

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 1 / gravel-053

Gravel Vol. 1 - Disk #2



Base texture gravel-base-10

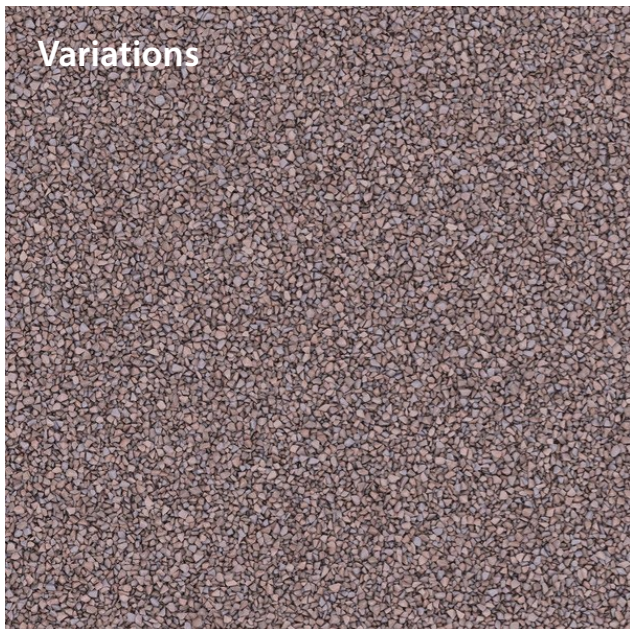
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 1 / gravel-054

Gravel Vol. 1 - Disk #2



Base texture gravel-base-10

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

04

Crushed 2 / gravel-055

Gravel Vol. 1 - Disk #2

Base texture gravel-base-11

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway®
textures

Variations

01

02

Crushed 2 / gravel-056

Gravel Vol. 1 - Disk #2

Base texture gravel-base-11

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

Crushed 2 / gravel-057
Gravel Vol. 1 - Disk #2

Base texture gravel-base-11

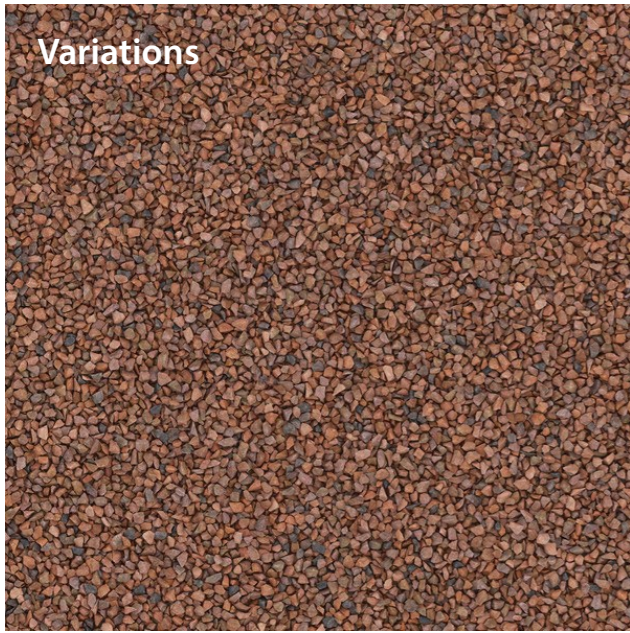
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 2 / gravel-058

Gravel Vol. 1 - Disk #2



Base texture gravel-base-11

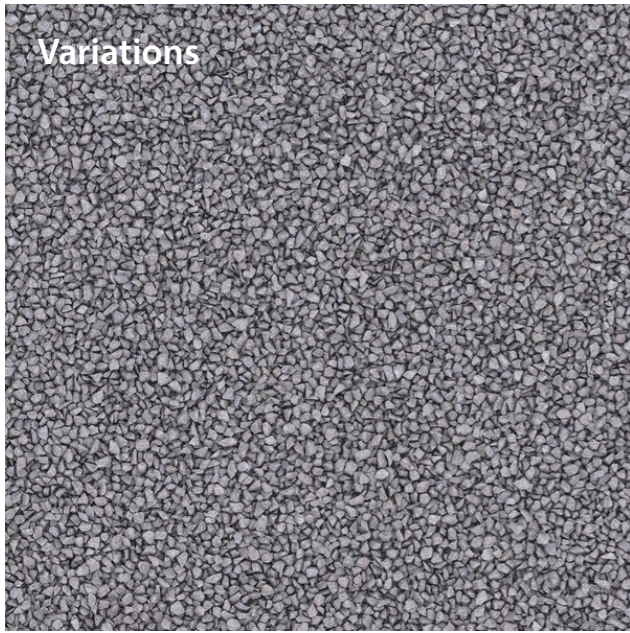
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 2 / gravel-059

Gravel Vol. 1 - Disk #2



Base texture gravel-base-11

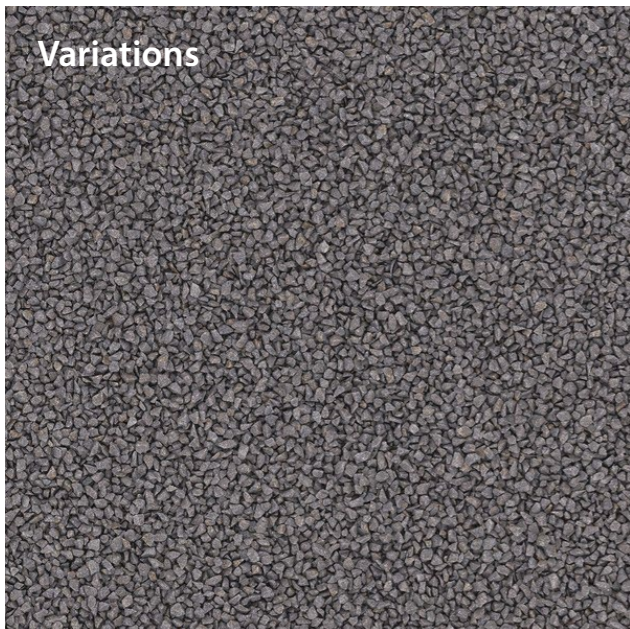
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 2 / gravel-060

Gravel Vol. 1 - Disk #2



Base texture gravel-base-11

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Crushed 2 / gravel-061

Gravel Vol. 1 - Disk #2

Base texture gravel-base-11

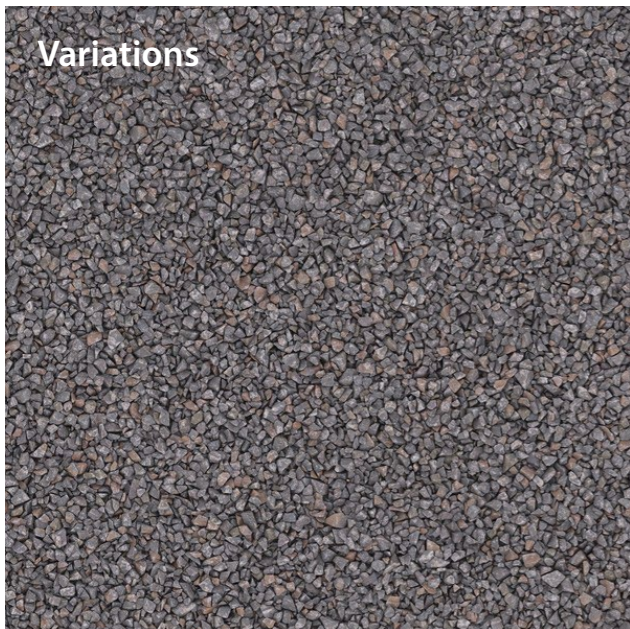
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-062

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

Crushed 3 / gravel-063

Gravel Vol. 1 - Disk #2

Base texture gravel-base-12

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations

01

02

03

Crushed 3 / gravel-064

Gravel Vol. 1 - Disk #2

Base texture gravel-base-12

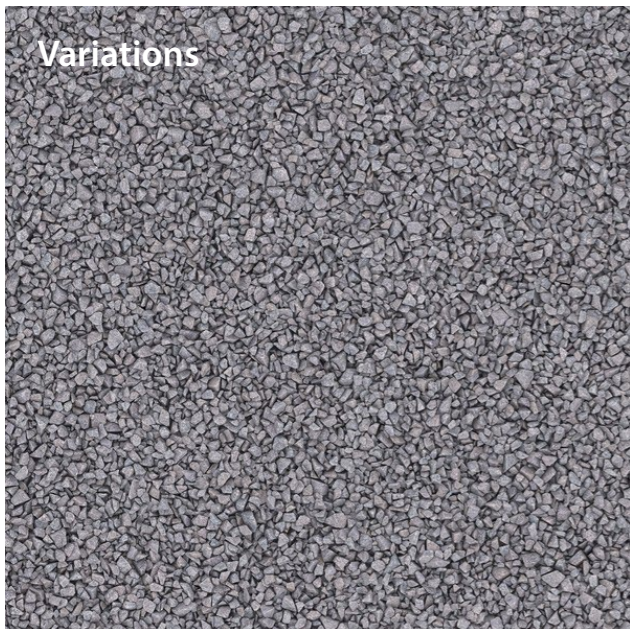
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-065

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

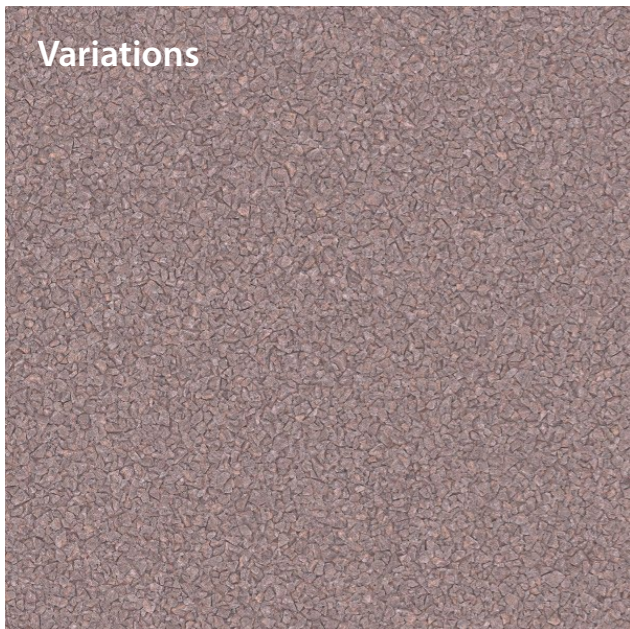
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-066

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

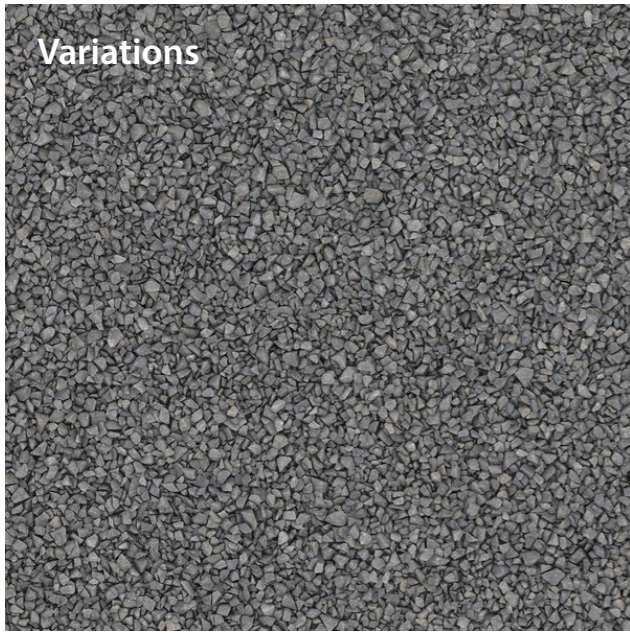
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-067

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-068

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-069

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

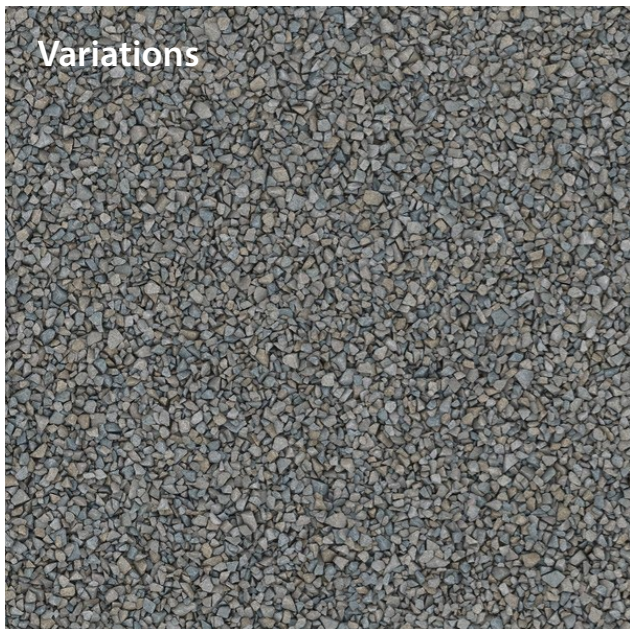
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Crushed 3 / gravel-070

Gravel Vol. 1 - Disk #2



Base texture gravel-base-12

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Mix 1 / gravel-071

Gravel Vol. 1 - Disk #2



Base texture gravel-base-13

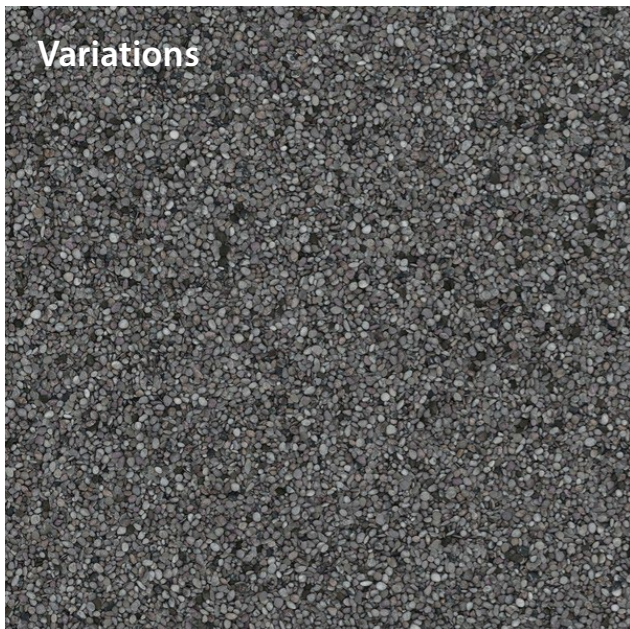
2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Mix 1 / gravel-072

Gravel Vol. 1 - Disk #2



Base texture gravel-base-13

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Mix 1 / gravel-073

Gravel Vol. 1 - Disk #2



Base texture gravel-base-13

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway®
textures

Variations



Mix 2 / gravel-074
Gravel Vol. 1 - Disk #2



Base texture gravel-base-14

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

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textures

Variations



Mix 2 / gravel-075
Gravel Vol. 1 - Disk #2

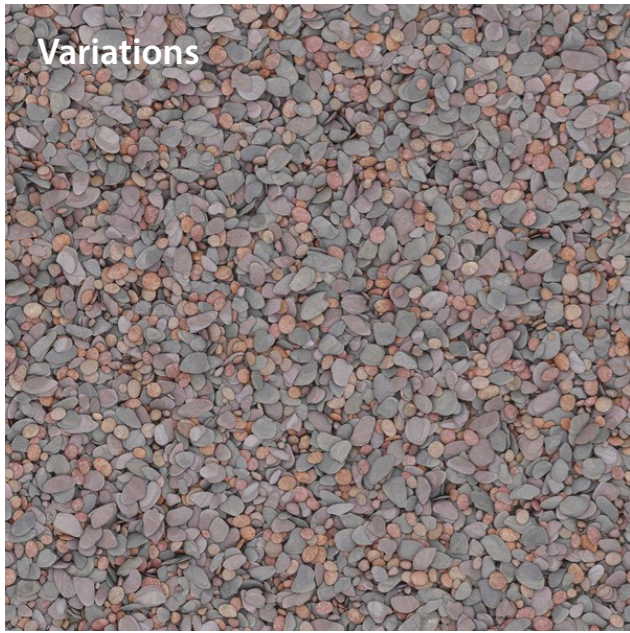


Base texture gravel-base-14

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px
4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px
8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

arroway[®]
textures

Variations



Mix 2 / gravel-076

Gravel Vol. 1 - Disk #2



Base texture gravel-base-14

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

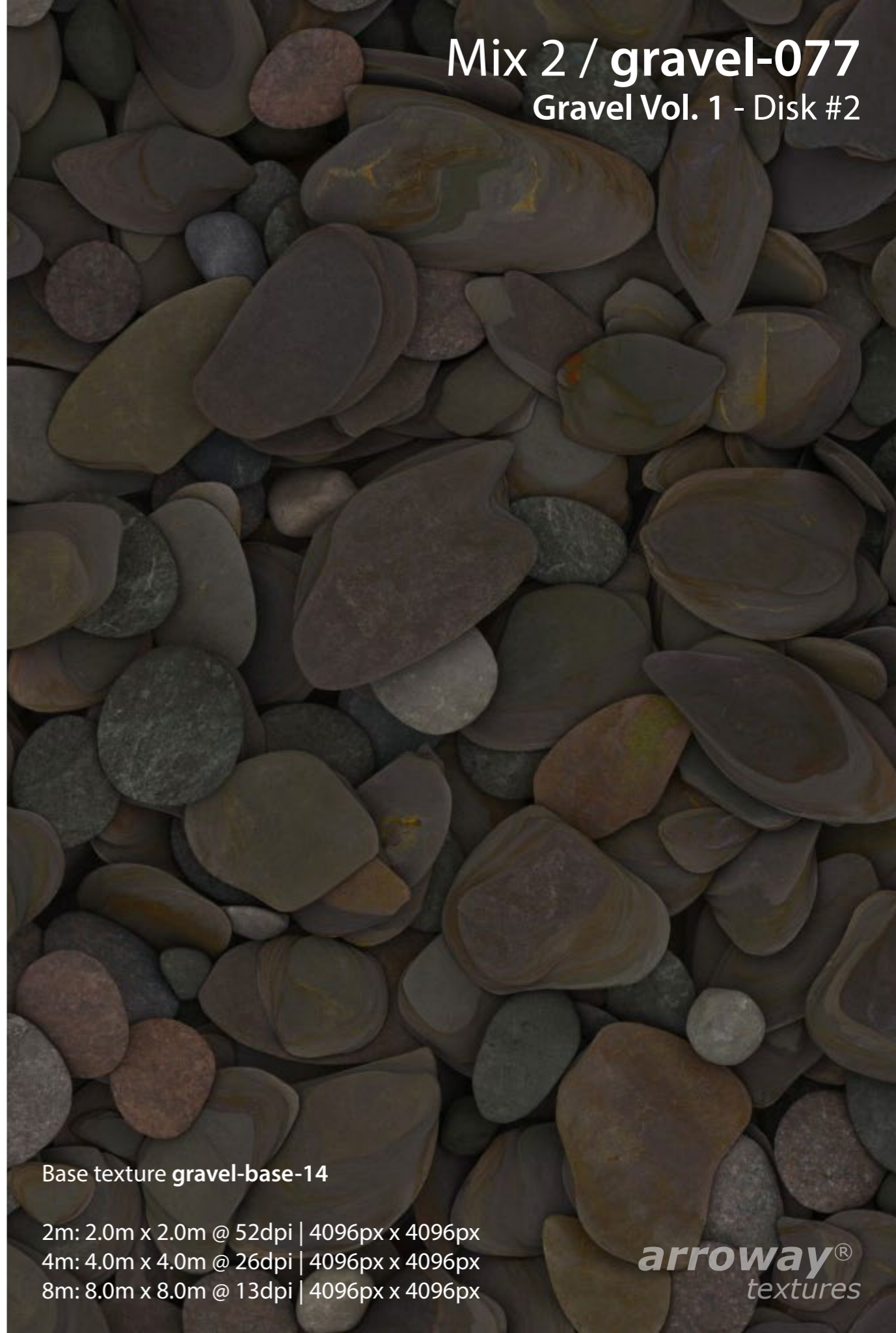
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textures

Variations



Mix 2 / gravel-077

Gravel Vol. 1 - Disk #2



Base texture gravel-base-14

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

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textures

Variations



Mix 3 / gravel-078
Gravel Vol. 1 - Disk #2



Base texture gravel-base-15

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

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textures

Variations



Mix 3 / gravel-079

Gravel Vol. 1 - Disk #2



Base texture gravel-base-15

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

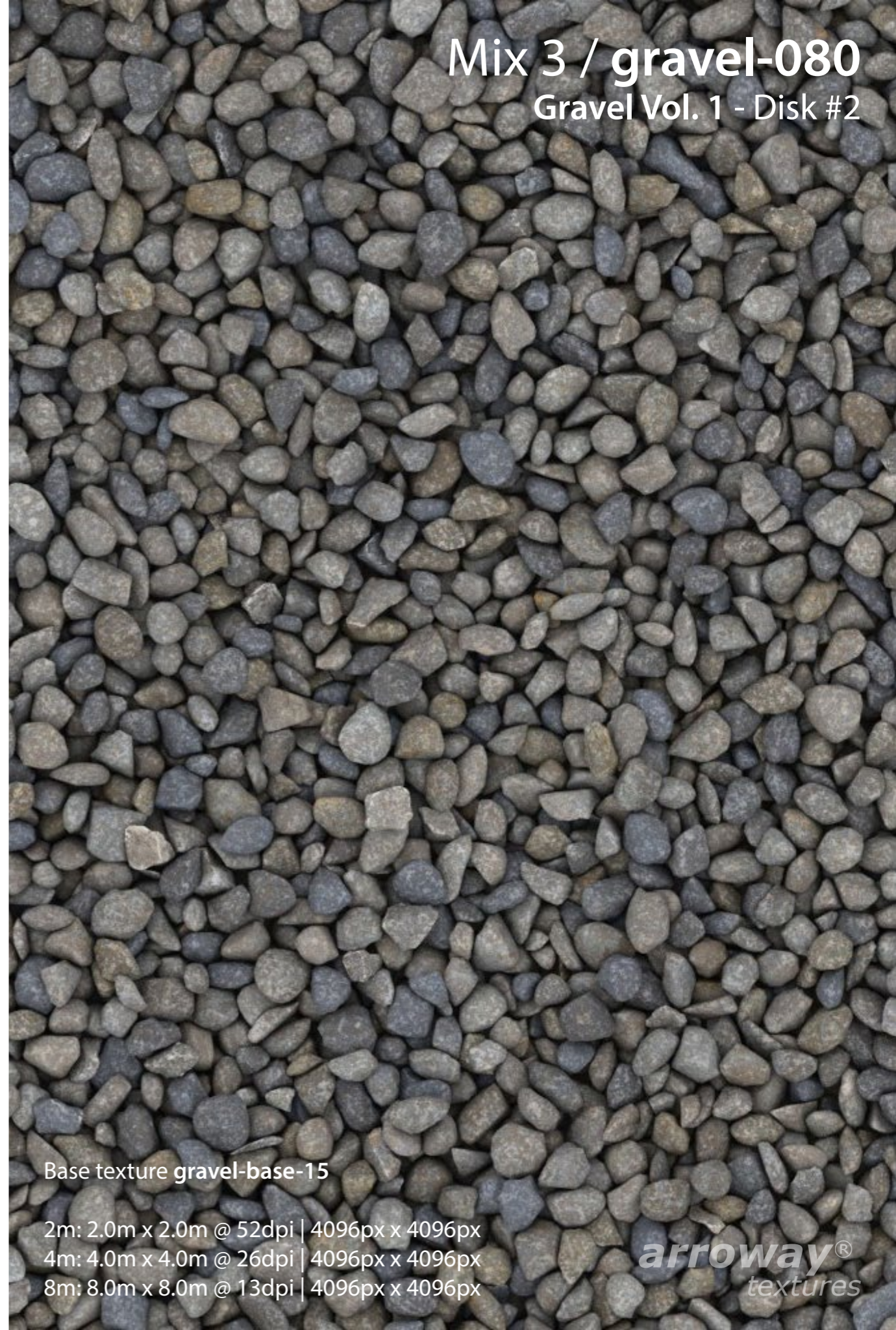
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textures

Variations



Mix 3 / gravel-080

Gravel Vol. 1 - Disk #2



Base texture gravel-base-15

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

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textures

Variations



Mix 3 / gravel-081
Gravel Vol. 1 - Disk #2



Base texture gravel-base-15

2m: 2.0m x 2.0m @ 52dpi | 4096px x 4096px

4m: 4.0m x 4.0m @ 26dpi | 4096px x 4096px

8m: 8.0m x 8.0m @ 13dpi | 4096px x 4096px

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