

LOW POLY

epic pack

by [polyperfect](#)



Have a Suggestion?

info@polyperfect.com

Thanks!

First of all, thank you for purchasing our pack, we really appreciate that! We are putting a lot of effort into this.

We are also planning to expand the list of the characters and their animations in the future with free updates of the pack. Check out our [Discord](#) for any news.

Handy Links ;)

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 - Creation of Non-Fungible-Tokens (NFT) or use in Blockchain-based projects or products.
 - Creation of content for Metaverse-related and/or game-creation software and products.

Inclusion in datasets utilized by Generative AI Programs; in the development of Generative AI Programs; or as inputs to Generative AI Programs.

Updates

VERSION 1.7

- Service Buildings (x12)

VERSION 1.6

- New Construction models (x57)
- New Amusement Park (x23)
- Tiles without bottoms for mesh switching (x76)
- New Vehicle models (x3)

VERSION 1.5

- Tiles can be updated/added in runtime
- Cars and trains now turn and drive through slope changes smoothly
- New tile - rail T intersection

VERSION 1.35

- Material fixes
- A couple of new prop models

VERSION 1.3

- Added a new night city scene
- New material variation
- UV remapping of the buildings.
- A couple of minor meshes fixes

VERSION 1.2

- New buildings

- main rig fix

VERSION 1.11.3

- Camera fix

VERSION 1.11

- Different Scale support fix

VERSION 1.10

- New buildings

VERSION 1.05

- A few models were added
- New functionality for the camera
- Checkpoint system improvements

VERSION 1.0

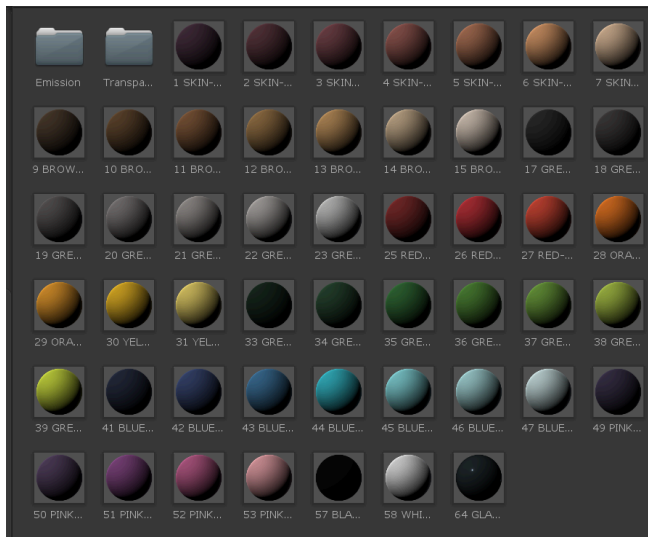
- INITIAL RELEASE

Material vs Textures

There are two versions of our models. Feel free to use the ones that fit your workflow the best. Demo Scenes are made with material prefabs.

“M” Models (Material)

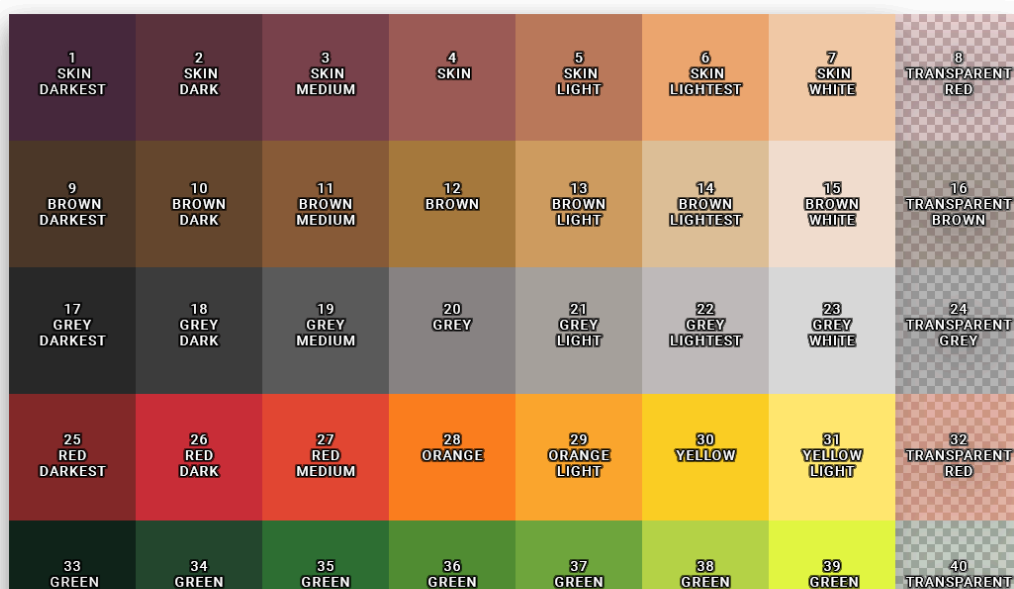
- The color of an object is influenced by texture
- All prefabs share one atlas texture
- Good for speed and mobile



“T” Models (Texture)

- The color of an object is influenced by texture
- All prefabs share one atlas texture
- Good for speed and mobile

“This texture is not perfect, but it's ours.” We are using one big atlas texture and one material for all our meshes. It's great for speed - or so they say :))



Left column is reserved for transparent colors.

							TRANSPARENT VALUES
1 SKIN DARKEST	2 SKIN DARK	3 SKIN MEDIUM	4 SKIN	5 SKIN LIGHT	6 SKIN LIGHTEST	7 SKIN WHITE	8 TRANSPARENT RED
9 BROWN DARKEST	10 BROWN DARK	11 BROWN MEDIUM	12 BROWN	13 BROWN LIGHT	14 BROWN LIGHTEST	15 BROWN WHITE	16 TRANSPARENT BROWN
17 GREY DARKEST	18 GREY DARK	19 GREY MEDIUM	20 GREY	21 GREY LIGHT	22 GREY LIGHTEST	23 GREY WHITE	24 TRANSPARENT GREY
25 RED DARKEST	26 RED DARK	27 RED MEDIUM	28 ORANGE	29 ORANGE LIGHT	30 YELLOW	31 YELLOW LIGHT	32 TRANSPARENT RED
33 GREEN DARKEST	34 GREEN DARK	35 GREEN MEDIUM	36 GREEN	37 GREEN LIGHT	38 GREEN LIGHTEST	39 GREEN WHITE	40 TRANSPARENT GREEN
41 BLUE DARKEST	42 BLUE DARK	43 BLUE MEDIUM	44 BLUE	45 BLUE LIGHT	46 BLUE LIGHTEST	47 BLUE WHITE	48 TRANSPARENT BLUE
49 PINK DARKEST	50 PINK DARK	51 PINK MEDIUM	52 PINK	53 PINK LIGHT	54 EMISSION BLUE	55 EMISSION PURPLE	56 TRANSPARENT WHITE
57 BLACK	58 WHITE	59 EMISSION WHITE	60 EMISSION RED	61 EMISSION ORANGE	62 EMISSION YELLOW	63 EMISSION GREEN	64 GLASS

1 SKIN DARKEST	2 SKIN DARK	3 SKIN MEDIUM	4 SKIN	5 SKIN LIGHT	6 SKIN LIGHTEST	7 SKIN WHITE	8 TRANSPARENT RED
9 BROWN DARKEST	10 BROWN DARK	11 BROWN MEDIUM	12 BROWN	13 BROWN LIGHT	14 BROWN LIGHTEST	15 BROWN WHITE	16 TRANSPARENT BROWN
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**EMISSION
VALUES**

Bottom part is for emission ones.

Path Finding

Basic implementation of the A* algorithm with the use of a sorted queue.

This script is required for pathfinding for trains, cars, and humans.

Heuristic function is implemented as the Manhattan distance.

Pathfinding tree is created with nodes of type [path](#).

Path

This script is used as a basic node in the pathfinding tree.

Path type

Determines for what path can be used (Road - Road vehicles, Rail - Trains, Sidewalk - Humans).

Speed

The maximum speed vehicle can move on this path. On sidewalks this variable doesn't matter.

Next Paths

Holds all paths that are immediately connected to the end of this path. When part of the tile is set up automatically by Tile script.

Path Checkpoints

An ordered list of path checkpoints through which path goes.

When the Edit toggle is on, the selected checkpoint can be edited by the Position handle in the scene or set to the exact local position above this list. Checkpoints can be rearranged by dragging.

New checkpoints can be added by + button on the bottom right.

Currently selected checkpoint can be deleted by clicking on - button next to + button.

Trains

Locomotives and all wagons have their tags set to “Train”.

Wagons

Trains can have from zero up to 64 wagons.

Each wagon gameobject must have attached:

- Wagon script with reference to box collider.
 - Reference to front and rear bogie
- Box collider - must be set to match the length of the mesh.

Max speed

Determines the maximum speed (in km/h) a locomotive can achieve.

Acceleration

Acceleration of the train.

Checkpoints

Checkpoints are world positions through which the [pathfinder](#) tries to find a path for the train.

At the start the train tries to find a path to the first checkpoint.

When the train reaches the end it goes back through the same checkpoints.

Front bogie

Transform of front bogie, needs to be at local x and y = 0.

Rear bogie

Transform of rear bogie, needs to be at local x and y = 0.

Road Vehicles

Each vehicle has pathfinding and CarBehavior script as well as Rigidbody component set to kinematic and gravity off. Of course the box collider and box collider are set to trigger in front of the vehicle to detect vehicles/traffic lights/crosswalk in front. Tag of the gameobject that script and collider is attached to must be set to Car.

Random destination

When turned on finds a path to a random accessible tile from the current position.
When turned off finds the path through setup checkpoints.

Closed Circuit

Only visible if Random destination is off.
When true, the path created from checkpoints is sharing start and end.
When false, the path goes through checkpoints. When the vehicle reaches the end it goes back through the same checkpoints.

Max speed

Max speed of this vehicle.

Checkpoints

Only visible if Random destination is off.
Checkpoints are world positions through which the [pathfinder](#) tries to find a path for the vehicle.
At the start it tries to find a path to the first checkpoint.

Front wheels middle point

Transform of position between front wheels, needs to be at local x and y = 0.

Rear wheels middle point

Transform of average position between rear wheels, needs to be at local x and y = 0.

Front wheels

List containing transforms of front wheels. Pivot must be at the center of the wheel.

Transform must be set as a child of an empty wheel object. This is because we need to set the rotation of the wheel and turn radius.

Rear wheels

List containing transforms of rear wheels. Pivot must be at the center of the wheel.

Ships

Ships don't follow paths created by pathfinder rather follow predetermined paths.

Trajectory

Path that ship will follow. When it reaches end of path

Max speed

Determines the maximum speed (in km/h) a ship can achieve.

Acceleration

Acceleration of the ship.

Ship Tipping

Maximum angle in degrees that ship can tip.

Planes

Planes same as ships don't follow paths created by pathfinder rather follow predetermined paths.

Trajectory

Path that plane will follow. When it reaches the end of the path it continues from the start.

Max speed

Determines the maximum speed (in km/h) a plane can achieve.

Acceleration

Acceleration of the plane.

Tiles

Each drivable/walkable tile must have Tile script attached to it.

At the awake function it gets all of its connected neighbors tiles. Gap between tiles to be connected must be less than 1,5m. Next it searches through all child objects for Path script and adds them to the list. Then the Start function connects all paths saved in the list there's next paths. If you want to update or add new Tiles in runtime you need to call UpdateTile function on the modified Tile.

Tile Shape

The shape of tile paths.

Vertical Tile

Determines if tile is tunnel/ hill(ramp) / bridge or basic plain.

Tile Type

What path types are on this tile. Road includes pathwalks.

Level Crossing

LevelCrossingController script requires a box collider at the gameobject and needs to be set as trigger as well as rigidbody set to kinematic. When a train enters the collider all road vehicles will stop if they enter. If they are already on the level crossing they will continue driving.

Level Crossings

List of individual LevelCrossing scripts.

The LevelCrossing script controls individual barriers and lights.

Crosswalks

Crosswalk script requires a box collider at the gameobject and needs to be set as trigger. When a human steps into a collider all road vehicles will stop if they enter. If they are already on the crosswalk they will continue driving.

Traffic Lights

Traffic Light Control

This script's job is switching between two sets of traffic lights in every preset seconds.

First Lights

First set of traffic lights which will be green at the same time.

Second Lights

Second set of traffic lights which will be green at the same time.

Time Interval

Time in second that traffic lights switch.

Traffic Light script

This script requires a box collider at the gameobject and needs to be set as trigger.

This trigger job is to stop vehicles at red lights. Gameobjects tag needs to be set to "TrafficLight".

Crosswalk

Reference to crosswalk script which will stop humans from crossing when they can't.

Gameobject that the crosswalk script is attached to needs its tag set to

"TrafficLightCrosswalk".

FAQ

1) Will your packs work with URP?

All of our packs are made with standard Unity shaders so it's quite easy to upgrade them to the URP. Here is the video on how to do it:

<https://www.youtube.com/watch?v=YTJo3RnmPTw>

2) Can I use your assets with a different engine?

Yes, but we will not be able to support you. As long as they are safely stored within the engine and you are not reselling or redistributing them. No AI as well.

3) Can I use your assets commercially?

Yes, as long as they are safely stored within your product and you are not reselling or redistributing them. No AI as well. Please carefully read this: [EULA and Terms of Service](#)