

Erstellung von AI Bildern mit DALL-E-3 Modell

Die Erstellung von AI Bildern mit DALL-E-3 Modell mit ChatGPT-3.5 ist über die API Schnittstelle günstiger als ein ChatGPT-4 Account einzurichten und dort monatlich 20 Dollar dafür zu bezahlen.

Deinen API Key erhältst Du über diese Webseite:

<https://platform.openai.com/account/api-keys>

Dort hab ich einen "Pay As You go" Tarif ausgewählt.

Bilder einfach mit curl erstellen:

```
export OPENAI_API_KEY=sk-XXXXXDein-API-Key
```

```
curl https://api.openai.com/v1/images/generations \
-H "Content-Type: application/json" \
-H "Authorization: Bearer $OPENAI_API_KEY" \
-d '{
  "model": "dall-e-3",
  "prompt": "A cute baby sea otter",
  "n": 1,
  "size": "1024x1024"
}'
```

Bilder erstellen mit Python :

```
pip install openai
```

Das Ergebnis wird dann als JSON ausgegeben , dort den Tag "**URL**" herauskopieren



Bidder erstellen mit NodeRED:

Achtung : Zeile 81 eigenen API Key eintragen und beginnt mit "sk-XXX"

NodeRED Code bitte anklicken

```
[
  {
    "id": "e330b43c654ab038",
    "type": "tab",
```

```
"label": "Flow 3",
"disabled": false,
"info": "",
"env": []
},
{
  "id": "7086e0f63db3332d",
  "type": "inject",
  "z": "e330b43c654ab038",
  "name": "Cute Baby",
  "props": [
    {
      "p": "question",
      "v": " a cute baby sea otter",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "x": 120,
  "y": 180,
  "wires": [
    [
      "c1cc057222a4ec88"
    ]
  ]
},
{
  "id": "c1cc057222a4ec88",
  "type": "function",
  "z": "e330b43c654ab038",
  "name": "DALL-E-3 Create Image",
  "func": "msg.payload = {\n  \"model\": \"dall-e-3\", \n  \"prompt\": msg.question, \n  \"n\": 1, \n  \"size\": \"1024x1024\", \n  \"response_format\": \"url\" \n} \nreturn msg;",
  "outputs": 1,
  "timeout": 0,
```

```
"noerr": 0,
"initialize": "",
"finalize": "",
"libs": [],
"x": 370,
"y": 180,
"wires": [
  [
    "42afba693598e446"
  ]
],
},
{
  "id": "42afba693598e446",
  "type": "http request",
  "z": "e330b43c654ab038",
  "name": "API Image",
  "method": "POST",
  "ret": "obj",
  "paytoqs": "ignore",
  "url": "https://api.openai.com/v1/images/generations",
  "tls": "",
  "persist": false,
  "proxy": "",
  "insecureHTTPParser": false,
  "authType": "",
  "senderr": false,
  "headers": [
    {
      "keyType": "other",
      "keyValue": "Content-Type",
      "valueType": "other",
      "valueValue": "application/json"
    },
    {
      "keyType": "other",
      "keyValue": "Authorization",
      "valueType": "other",
      "valueValue": "Bearer sk-XXXXX"
```

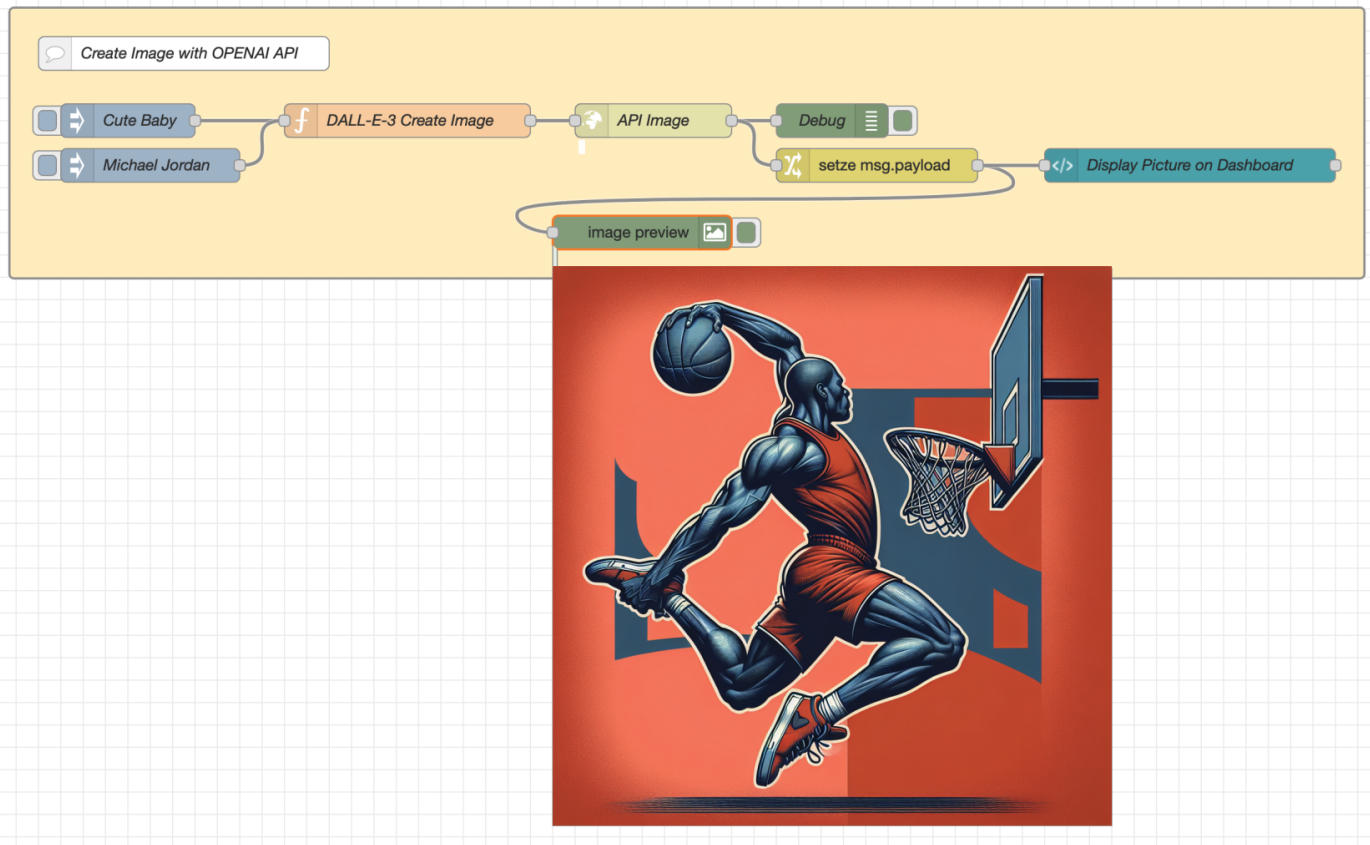
```
    }
  ],
  "x": 590,
  "y": 180,
  "wires": [
    [
      "8f6b829af0ca37de",
      "7441d16059efdc2b"
    ]
  ]
},
{
  "id": "7441d16059efdc2b",
  "type": "change",
  "z": "e330b43c654ab038",
  "name": "",
  "rules": [
    {
      "t": "set",
      "p": "payload",
      "pt": "msg",
      "to": "payload.data[0].url",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 790,
  "y": 220,
  "wires": [
    [
      "db3a937d89d66f7b",
      "6855263aa73b2501"
    ]
  ]
},
```

```
{
  "id": "db3a937d89d66f7b",
  "type": "image",
  "z": "e330b43c654ab038",
  "name": "",
  "width": "500",
  "data": "payload",
  "dataType": "msg",
  "thumbnail": false,
  "active": true,
  "pass": false,
  "outputs": 0,
  "x": 400,
  "y": 320,
  "wires": []
},
{
  "id": "8f6b829af0ca37de",
  "type": "debug",
  "z": "e330b43c654ab038",
  "name": "Debug",
  "active": true,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "payload",
  "targetType": "msg",
  "statusVal": "",
  "statusType": "auto",
  "x": 750,
  "y": 180,
  "wires": []
},
{
  "id": "ca1eb1e42d901944",
  "type": "inject",
  "z": "e330b43c654ab038",
  "name": "Michael Jordan",
  "props": [
```

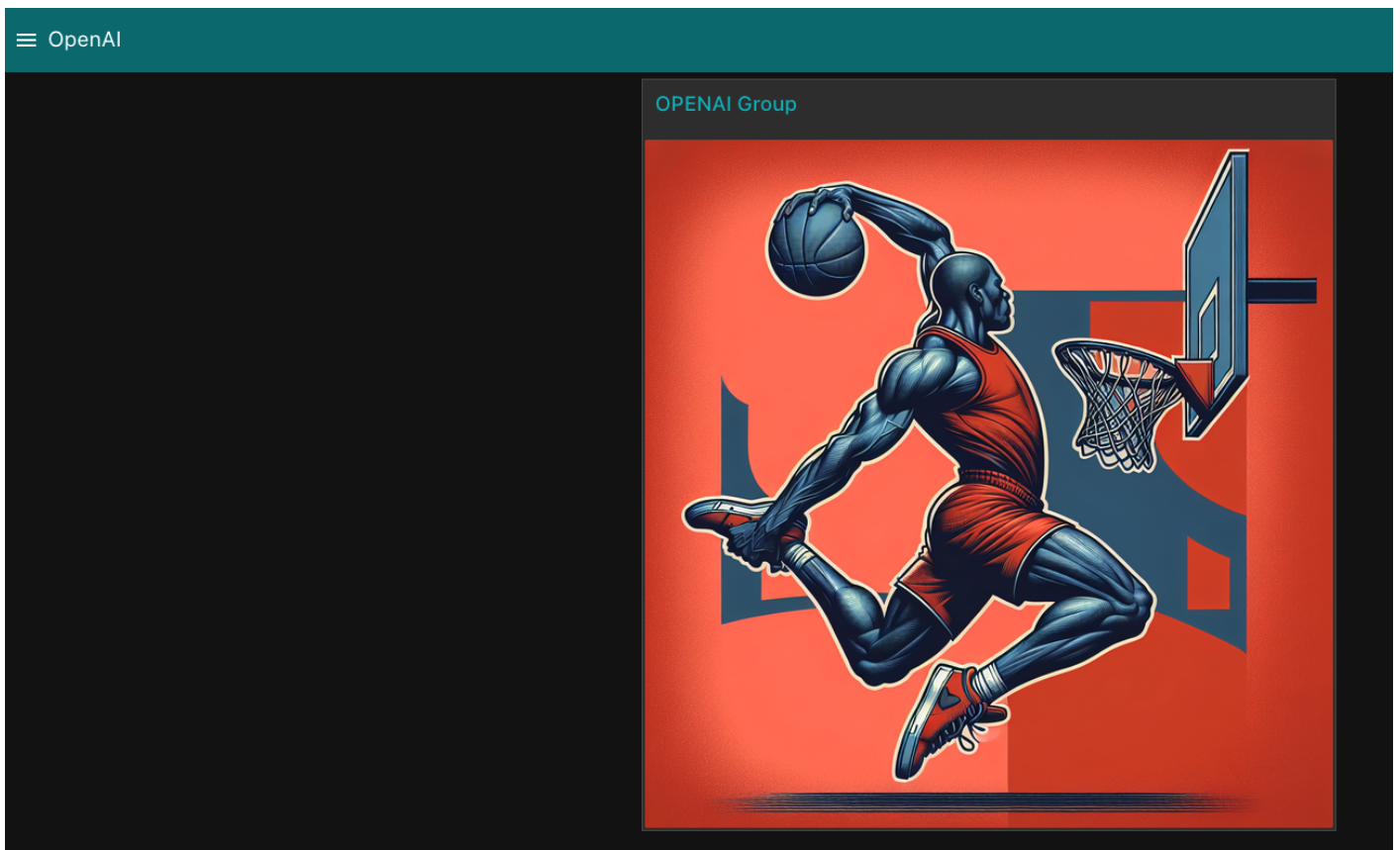
```
{
  "p": "question",
  "v": "Michael Jordan can't dunk in realistic style.",
  "vt": "str"
}
],
"repeat": "",
"crontab": "",
"once": false,
"onceDelay": 0.1,
"topic": "",
"x": 140,
"y": 220,
"wires": [
  [
    "c1cc057222a4ec88"
  ]
]
},
{
  "id": "6855263aa73b2501",
  "type": "ui_template",
  "z": "e330b43c654ab038",
  "group": "0471b7a87c9146b9",
  "name": "Display Picture on Dashboard",
  "order": 0,
  "width": "12",
  "height": "12",
  "format": "<img ng-src={{msg.payload}} alt=\"Bildbeschreibung\">",
  "storeOutMessages": true,
  "fwdInMessages": true,
  "resendOnRefresh": true,
  "templateScope": "local",
  "className": "",
  "x": 1070,
  "y": 220,
  "wires": [
    []
  ]
}
```

```
  },
  {
    "id": "0471b7a87c9146b9",
    "type": "ui_group",
    "name": "OPENAI Group",
    "tab": "800ecd05c740fe27",
    "order": 1,
    "disp": true,
    "width": "12",
    "collapse": false,
    "className": ""
  },
  {
    "id": "800ecd05c740fe27",
    "type": "ui_tab",
    "name": "OpenAI ",
    "icon": "dashboard",
    "order": 10,
    "disabled": false,
    "hidden": false
  }
]
```

Der Flow in der Übersicht mit Bildvorschau. Hierzu wird da "node-red-contrib-image-output" Plugin benötigt.



Ansicht im Dashboard :



Revision #3

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