result_visualization

September 10, 2021

[ ]:
```
import pandas as pd
import plotly.express as px
```

[ ]:
```
centering_result = pd.read_csv("analysis/validation_analysis/result/centering.
↪csv")
```

[ ]:
```
centering_result.head()
```

[ ]:

	Identifier	Centering	Centering_Ground_Truth
0	3727258206	9.728268	9.0
1	3790347075	8.881133	9.0
2	3829836084	8.710790	9.0
3	3889981070	8.789421	9.5
4	3769403002	9.365221	10.0

[ ]:
```
centering_result['Diff'] = (centering_result['Centering'] -␣
↪centering_result['Centering_Ground_Truth'])
fig = px.histogram(centering_result, x = 'Diff', title = 'Centering:␣
↪Differences between prediction and ground-truth values')
fig.show()
```

[ ]:
```
corners_result = pd.read_csv("analysis/validation_analysis/result/corners.csv")
```

[ ]:
```
corners_result.head()
```

[ ]:

	Identifier	Corners	Corners_Ground_Truth
0	3779755024	3.404867	3.0
1	3790347036	7.573063	7.0
2	3729526026	6.359639	6.5
3	3750017066	9.086477	9.5
4	3773489002	3.404867	4.0

[ ]:
```
corners_result['Diff'] = (corners_result['Corners'] -␣
↪corners_result['Corners_Ground_Truth'])
fig = px.histogram(corners_result, x = 'Diff', title = 'Corners: Differences␣
↪between prediction and ground-truth values')
fig.show()
```

[ ]:
```
edges_result = pd.read_csv("analysis/validation_analysis/result/edges.csv")
```

[ ]:
```
edges_result.head()
```

[ ]:

	Identifier	Edges	Edges_Ground_Truth
0	3779755122	5.637629	6.0
1	3761772047	4.274985	4.5
2	3783187046	9.051152	9.0
3	3757764123	5.296044	5.5
4	3817031008	6.221293	6.5

[ ]:
```
edges_result['Diff'] = (edges_result['Edges'] -␣
↪edges_result['Edges_Ground_Truth']).abs()
fig = px.histogram(edges_result, x = 'Diff', title = 'Edges: Differences␣
↪between prediction and ground-truth values')
fig.show()
```

[ ]:
```
surface_result = pd.read_csv("analysis/validation_analysis/result/surface.csv")
```

[ ]:
```
surface_result.head()
```

[ ]:

	Identifier	Surface	Surface_Ground_Truth
0	3834529061	2.298725	1.0
1	3760202035	6.771133	8.0
2	3877888008	8.100383	9.0
3	3857203100	4.342918	4.5
4	3852955009	6.503569	7.0

[ ]:
```
surface_result['Diff'] = (surface_result['Surface'] -␣
↪surface_result['Surface_Ground_Truth']).abs()
fig = px.histogram(surface_result, x = 'Diff', title = 'Surface: Differences␣
↪between prediction and ground-truth values')
fig.show()
```