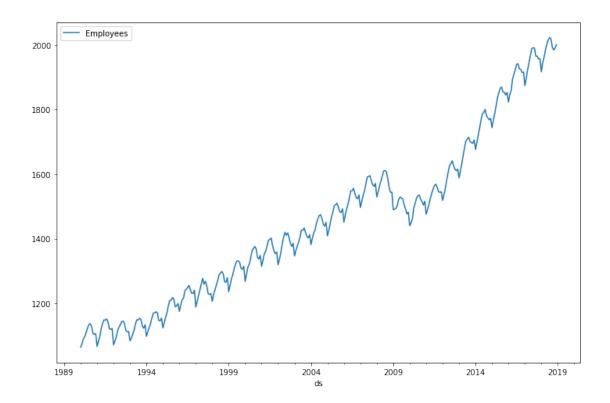
## 02-Prophet-Trend-Changes

October 19, 2022

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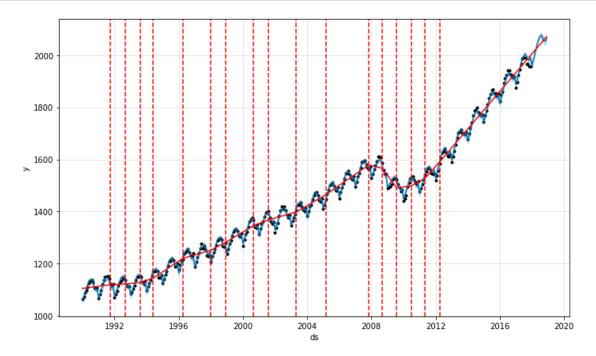
## 1 Trend Changes



```
[9]: len(df)
 [9]: 348
[10]: len(df) - 12
[10]: 336
[12]: train = df.iloc[:336]
      test = df.iloc[336:]
[13]: m = Prophet()
      m.fit(train)
      future = m.make_future_dataframe(periods=12,freq='MS')
      forecast = m.predict(future)
     INFO:fbprophet:Disabling weekly seasonality. Run prophet with
     weekly_seasonality=True to override this.
     INFO:fbprophet:Disabling daily seasonality. Run prophet with
     daily_seasonality=True to override this.
     /anaconda3/lib/python3.6/site-packages/pystan/misc.py:399: FutureWarning:
     Conversion of the second argument of issubdtype from `float` to `np.floating` is
     deprecated. In future, it will be treated as `np.float64 ==
```

```
np.dtype(float).type`.
elif np.issubdtype(np.asarray(v).dtype, float):
```

```
[14]: from fbprophet.plot import add_changepoints_to_plot
fig = m.plot(forecast)
a = add_changepoints_to_plot(fig.gca(), m, forecast)
```



[]: