

# The personal economic growth corresponds to commuting time

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## About

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This dataset covers census tracts within King County, Washington. The ACS estimates for these tracts are on a 5-year period from 2010 to 2021. It includes data on total income per person and commuting times to work for each area. Tracts have been categorized as part of the City of Seattle and have been assigned to neighborhood groups known as "Community Reporting Areas."

**Data Creation Range:** 2010 - 2021

## Motivation

The primary purpose behind creating this dataset was due to a research group from the University of Washington's INFO201 course, aiming to investigate the potential correlation between per capita income and commuting times within specific regions.

## Composition

This dataset contains various attributes, and for those attributes named numerically, the author will provide specific explanations later on. The most crucial instances in this paper are "Trends\_in\_the\_economy" and "Economic\_growth". If a specific area is detected to have experienced economic growth from 2010 to 2021, "Trends\_in\_the\_economy" will display the actual data, and "Economic\_growth" will change to "positive" and vice versa. \*Trends\_in\_the\_economy will be NA if there is no growth.

## Collection

This dataset is provided by the [data.gov](https://data.gov) website and consolidates datasets sampled in Seattle by the American Community Survey.

## Preprocessing

This dataset merges two datasets provided by data.gov based on common variables such as "GEOID," "NAME," "JURISDICTION," "CRA\_NO," "CRA\_GRP," "GEN\_ALIAS," "DETL\_NAMES," and "TRACT\_LABEL." They were combined using the full\_join method.

## Uses

The dataset has not been utilized for further tasks yet. Our intention is to use this dataset to uncover the potential correlation between commuting times and economic growth in the Seattle area and its surroundings within King County, Washington. It might also serve other purposes such as investigating work patterns and commute durations, as well as the urban development pace from 2010 to 2021 in Seattle and its adjacent regions. Please note that the dataset spans a considerable timeframe, so consideration should be given to geographical locations, commuting patterns, and factors like economic inflation when utilizing the dataset.

**GEOID** = Geography ID Number

**NAME** = Tract Name

**B01001\_001E** = Total Population

**B19313\_001E** = Aggregate income in the past 12 months (in inflation-adjusted dollars)

**B19301\_001E** = Per capita income in the past 12 months (in inflation-adjusted dollars)

**CRA\_NO** = Community Reporting Area ID

**CRA\_GRP** = Community Reporting Area Group

**GEN\_ALIAS** = Community Reporting Area Name

**DETL\_NAMES** = Community Reporting Area Neighborhoods

**B08303\_001E** = Workers 16 years and over who did not work from home

**B08303\_002E** = Less than 5 minutes commute

**B08303\_003E** = 5 to 9 minutes commute

**B08303\_004E** = 10 to 14 minutes commute

**B08303\_005E** = 15 to 19 minutes commute

**B08303\_006E** = 20 to 24 minutes commute

**B08303\_007E** = 25 to 29 minutes commute

**B08303\_008E** = 30 to 34 minutes commute

**B08303\_009E** = 35 to 39 minutes commute

**B08303\_010E** = 40 to 44 minutes commute

**B08303\_011E** = 45 to 59 minutes commute

**B08303\_012E** = 60 to 89 minutes commute

**B08303\_013E** = 90 or more minutes commute

**Trends\_in\_the\_economy** = Change in per capita income

**Economic\_growth** = Is economic growth true or false

# Explanation of Attributes