Introduction to LTV

MARKETING ANALYTICS IN TABLEAU



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LTV

LTV stands for LifeTime Value

- How much a customer is worth to a company over the customer's lifetime
- Also written as CLTV (customer lifetime value)
- Lifetime: how long a customer purchases from a company

- 5 years
- 100 USD/year
- LTV = 5 years x 100 USD /year = 500 USD

LTV Formulas

 $LTV = \text{price (annual, monthly)} \times \text{average lifetime}$

 Average lifetime is the number of periods the average customer purchases for (same unit as price)

$$LTV = \frac{\text{average revenue per customer}}{\text{churn rate}}$$

$$LTV = rac{ ext{total revenue/total number of customers}}{ ext{churn rate}}$$

Churn

Churn: rate at which customers stop purchasing

- Healthy software business: churn rate ~3 8%
- Varies significantly by industry
- Marketing analysts will often examine typical customer purchase patterns to identify a churn window



Membership-based businesses: any cancellation typically considered to churn

Cohorts

Let's return to our formulas briefly:

Each formula contains an average

$$LTV = \text{price (annual, monthly)} \times \text{average lifetime}$$

$$LTV = rac{ ext{average revenue per customer}}{ ext{churn rate}}$$

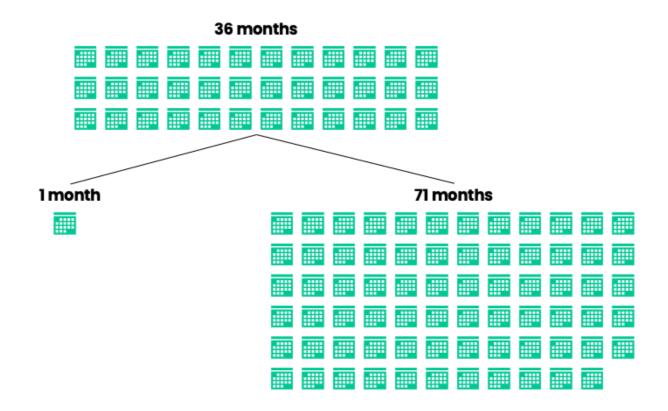
$$LTV = rac{ ext{total revenue/total number of customers}}{ ext{churn rate}}$$

Cohort: a group of customers who behave similarly

• E.g. Do cohorts with higher average spend join via a specific marketing channel?

Cohorts: lifespan example

- Average lifetime of a customer for a boutique fitness studio is 36 months
- Two cohorts: one signing up for 1 month, and another for 71 months



Marketing analysts look at cohort analyses in addition to calculating LTV

LTV/CAC

- LTV/CAC
 - Metric for return on investment (ROI)
- CAC stands for Customer Acquisition Cost
- CAC: marketing spend, on average, to acquire new customer
- ullet $rac{LTV}{CAC} > 1$: customers bring more value than their acquisition cost

We'll review CAC in next section

Let's practice!

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DATEDIFF and DATEPARSE

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Full Name Instructor



Let's practice!

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Introduction to CAC

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Maarten Van den Broeck Senior Content Developer at DataCamp



What is CAC?

CAC = Customer Acquisition Cost

The amount of money a company needs to spend, on average, to acquire a new customer

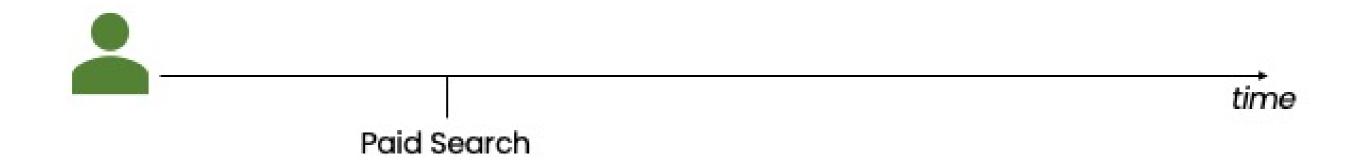
- Typically calculated by marketing departments
- Includes
 - Money marketing spends
 - Spend from outside marketing, like salaries for a sales team and rent on stores

CAC formula

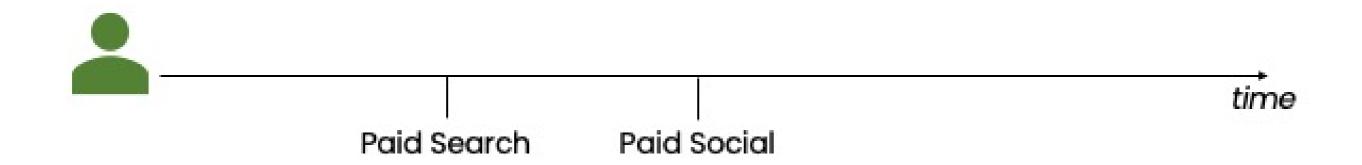
 $CAC = \frac{\text{Total paid marketing spend}}{\text{Total number of new customers}}$



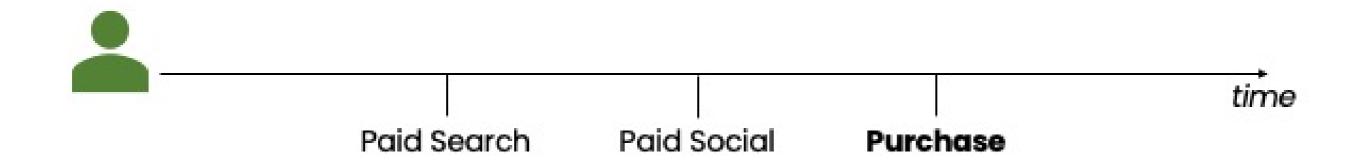
Example: two-touch journey



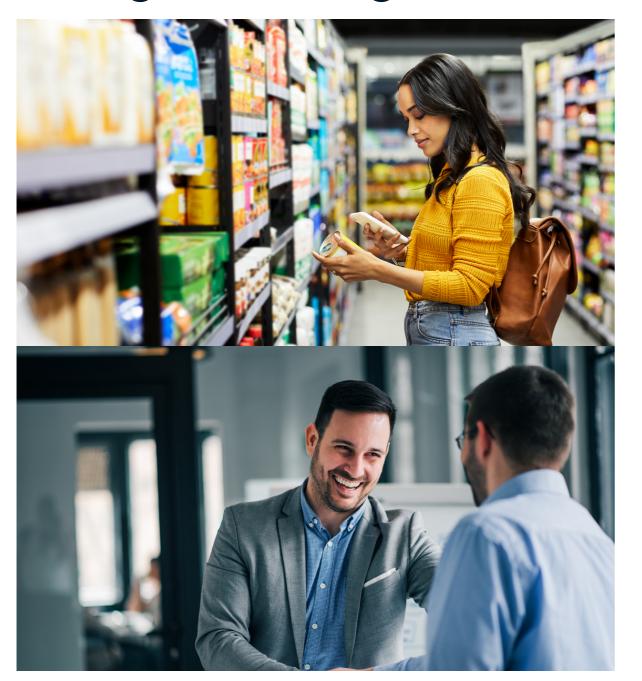
Example: two-touch journey



Example: two-touch journey



CAC by industry



B2C (Business to Consumer)

- E-Commerce, retail
- Lower CAC
- 20 USD 30 USD for well-run operations

B2B (Business to Business)

- Corporate law, commercial real estate
- Higher CAC
- Thousands of dollars

¹ https://growth-division.com/growth-marketing/typical-customer-acquisition-costs/



Marketing spend by industry



Marketing Spend ~ 10% of Revenue

Some industries spend above average, others below

Marketing spend by industry

Industries > 10% on average:

- Retail
- Consumer packaged goods
- Healthcare/pharmaceuticals

Industries < 10% on average:

- Education
- Energy
- Transportation

What's not in CAC

- 1. Email and organic
- 2. Overhead for paid channels

Overhead consists of costs required to launch marketing outside of the cost to run the ad itself

- This includes employees who write and manage content
- For most businesses, overhead costs are very small compared to the cost of running ads
 - Might not be the case for a small start-up

LTV/CAC

- LTV: measure of average customer's worth in terms of revenue
- CAC: measure of cost to acquire a customer

$$\frac{LTV}{CAC} = 1$$

Average cost to acquire a customer = average revenue a customer is worth

If average customer lifetime value is 1,000 USD and customer acquisition cost is 250 USD...

$$\frac{LTV}{CAC} = 4$$

This tells us that every dollar we invest in acquiring a customer yields 4 USD over that customer's lifetime

Let's practice!

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Unioned data

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Let's practice!

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Wrap-up video

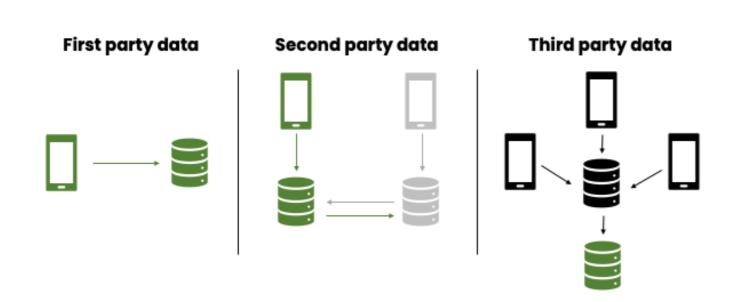
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Technology

- Cookies
- Customer identification

Digital Marketing

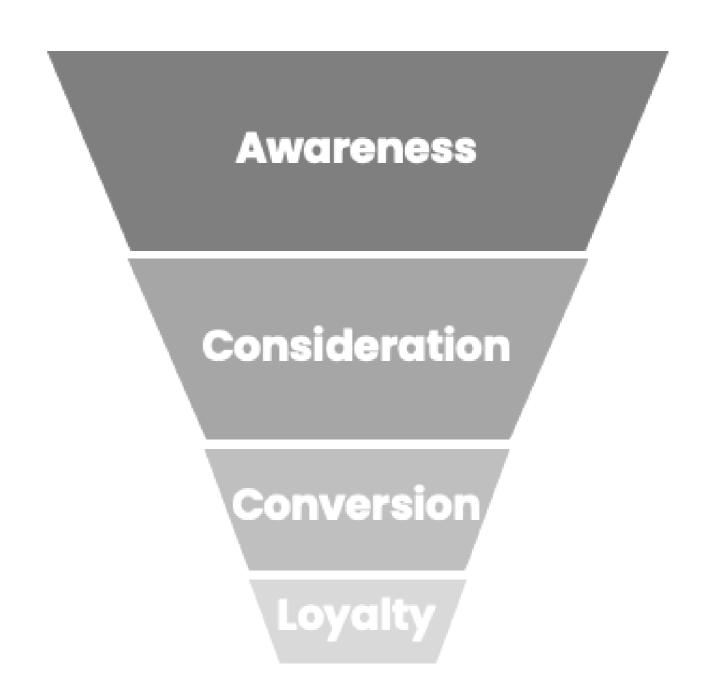
- Journeys
- First and last touch attribution

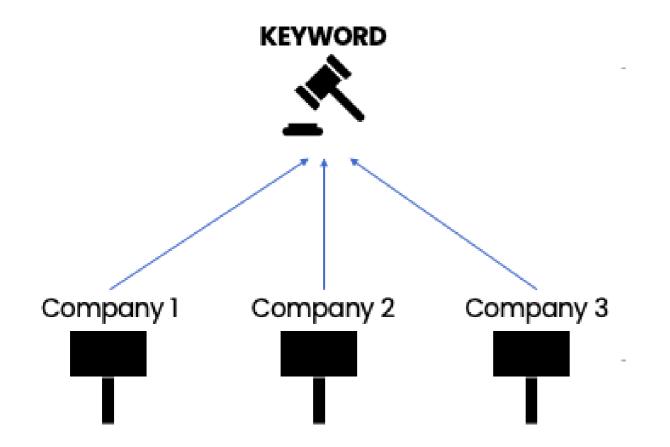
Email

- Funnel
- Click-through rate
- Open rate

Social

- Creatives
- A/B testing





Paid Search

- Keyword
- Ad group
- Unbranded vs. branded search

Organic

- Engagement rate
- Correlation with paid traffic

LTV

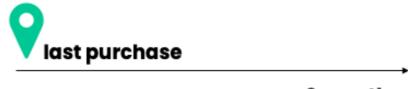
- Churn rate
- Order Size

CAC

- By channel
- In aggregate

LTV/CAC





6 months

Marketing analytics

- Overall marketing performance (LTV/CAC)
- Customer-centric approach (journeys)
- Channel-specific deep-dive

Other courses

Marketing Analytics

- Marketing Analytics for Business
- Marketing Analytics with R
- Marketing Analytics with Python

Congratulations!

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