



A Nuvem na Educação

Ronan Damasco

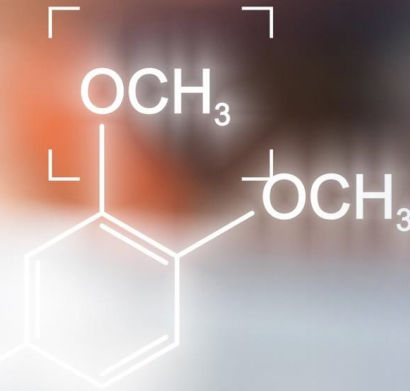
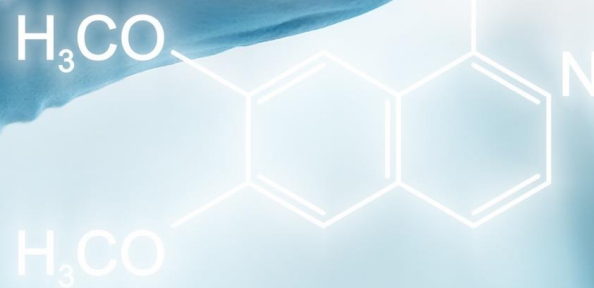
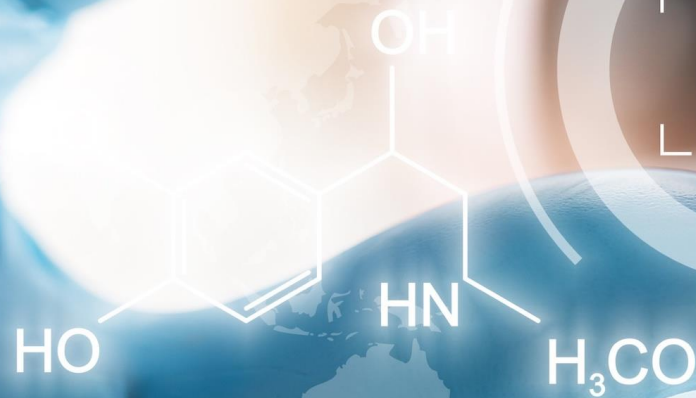
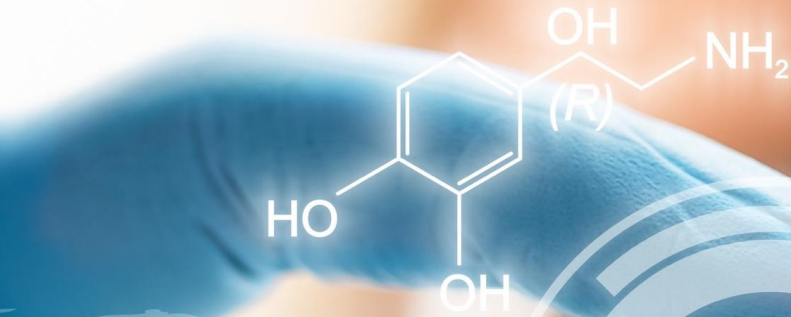
Diretor Nacional de Tecnologia

ronand@microsoft.com

O mundo em transformação

485432001/905

• 10722 14-311
172009



Cb =pH[H⁺] [OH⁻]

Analysis: Complete.
Position: #120498 05
Offset: &4005 980 011B
Current status: Online.

Cb =pH[H ⁺]	[OH ⁻]	Alpha(A)	beta(B)
7.403.98E-08	2.51E-07	0.201	0.201
7.602.51E-08	3.98E-07	0.285	0.285
8.001.00E-08	1.00E-06	0.500	0.500
8.403.98E-09	2.51E-06	0.715	0.715
8.801.58E-09	6.31E-06	0.863	0.863
9.001.00E-09	1.00E-05	0.909	0.910



SEGURANÇA



EDIFÍCIOS & EFICIÊNCIA
ENERGÉTICA



ACESOS, CONTROLES &
PAGAMENTOS



TRANSPORTE
CONECTADO

CULTURA ORIENTADA A DADOS



SAÚDE
CONECTADA



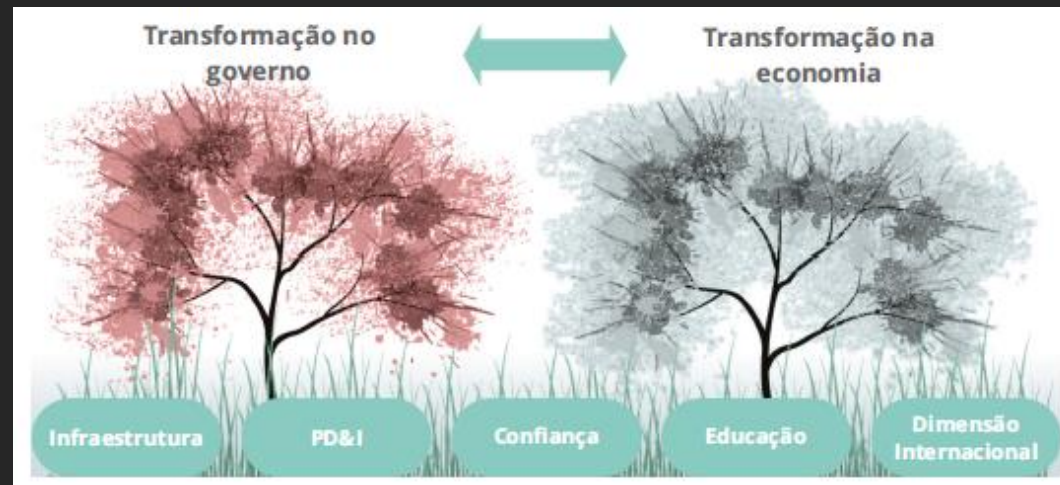
ANALÍTICA NA
EDUCAÇÃO



EXPERIÊNCIA DO
USUÁRIO

Estratégia Brasileira para a Transformação Digital

Decreto 9.319, de 21/mar/18



Eixos de transformação digital	Eixos Habilitadores					Nº de ações previstas:
	Infraestrutura e acesso às TICs	Pesquisa, Desenvolvimento e Inovação	Confiança no Ambiente Digital	Educação e Capacitação Profissional	Dimensão Internacional	
Economia baseada em dados						6
Um mundo de dispositivos conectados						6
Novos modelos de negócio						24
Cidadania e Governo						11
Nº de ações previstas:	9	10	15	9	10	Total de ações: 100



O Impacto no Mercado de Trabalho

Mudanças no Mercado de Trabalho



50% dos empregos serão eliminados devido a automação

30-40% dos empregos no futura vão requerer “soft skills”

42% dos empregadores acham que os recém-graduados estão preparados adequadamente

50M

People who are needed to fill open technical jobs by 2030.

Source:

Burning Glass Technologies, 2015

800M

Individuals need to learn new skills for their jobs by 2020.

Source:

LinkedIn

40%

Employers reporting that skill shortages have a negative impact on their business.

Source:

Manpower Group 2017

65%

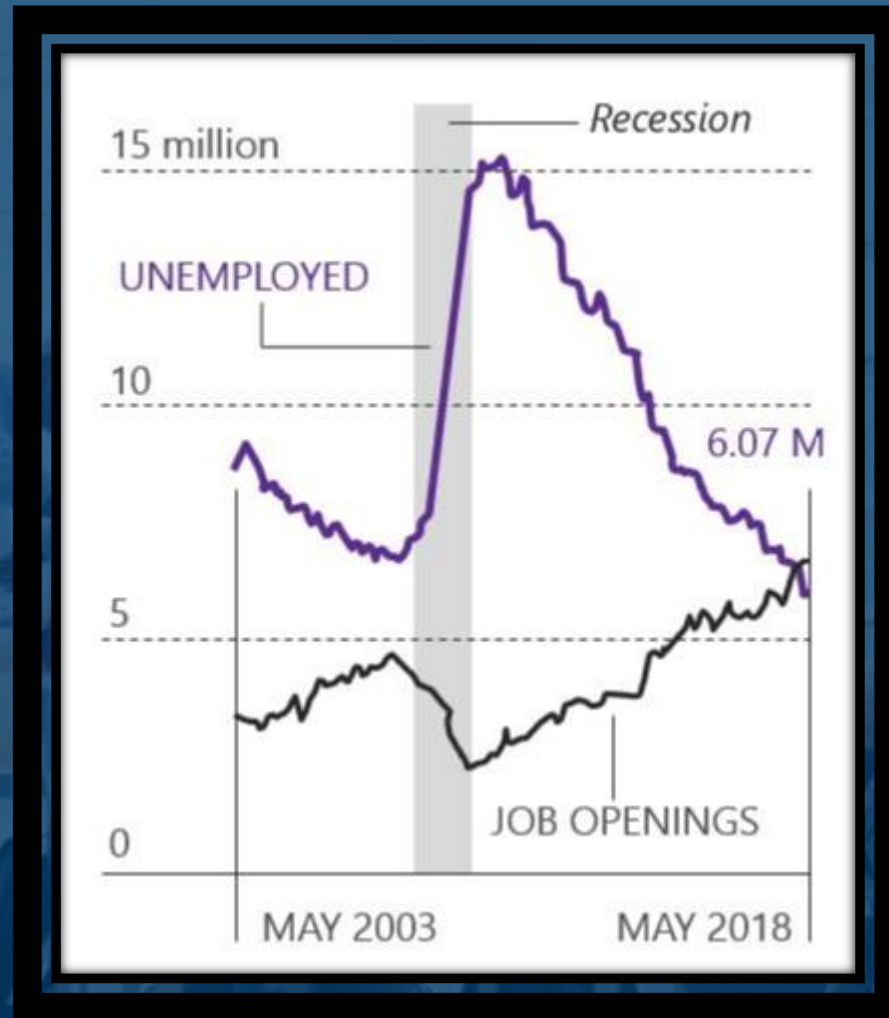
Of students today will do jobs that don't yet exist.

Source:

The Future Laboratory

Empregos que vão requerer habilidades técnicas





Source: BLS data seasonally adjusted, nonfarm job openings

Empregos que não existiam há 10 anos atrás

App Developer

Social Media Manager

Data Scientist

Driverless car engineer

Cloud computing specialist

Sustainability Manager

YouTube content creators

Drone Operators



**WHAT JOBS
COULD LOOK
LIKE IN 2040**

O que as 20 principais habilidades revelam

O IDC analisou mais de 76 milhões de postagens de postos de trabalho, 25 mil postos de trabalho e sites corporativos das empresas de pessoal - representando cerca de 80% de todas as postagens do ano passado - para identificar as posições que terão o maior crescimento e salários esperados até 2024.

O que descobriram a seguir foi interessante. As 20 habilidades mais necessárias em todas as profissões - além da proficiência em **Microsoft Office** (# 4) e **Microsoft PowerPoint** (# 16) - incluíam **habilidades de comunicação oral e escrita**, **orientação de detalhes**, **habilidades de marketing**, **integridade** e **orientação ao cliente**.

Pesquisa indica proficiência no Office como principal habilidade requisitada no mercado de trabalho.

1

Habilidades de comunicação oral e escrita

2

Solução de problemas

3

Integridade

4

Microsoft Office



5

Orientação a detalhes

Visão da Microsoft para a Educação



Transformação na Educação

Enorme potencial para educação nos tempos de mudança.

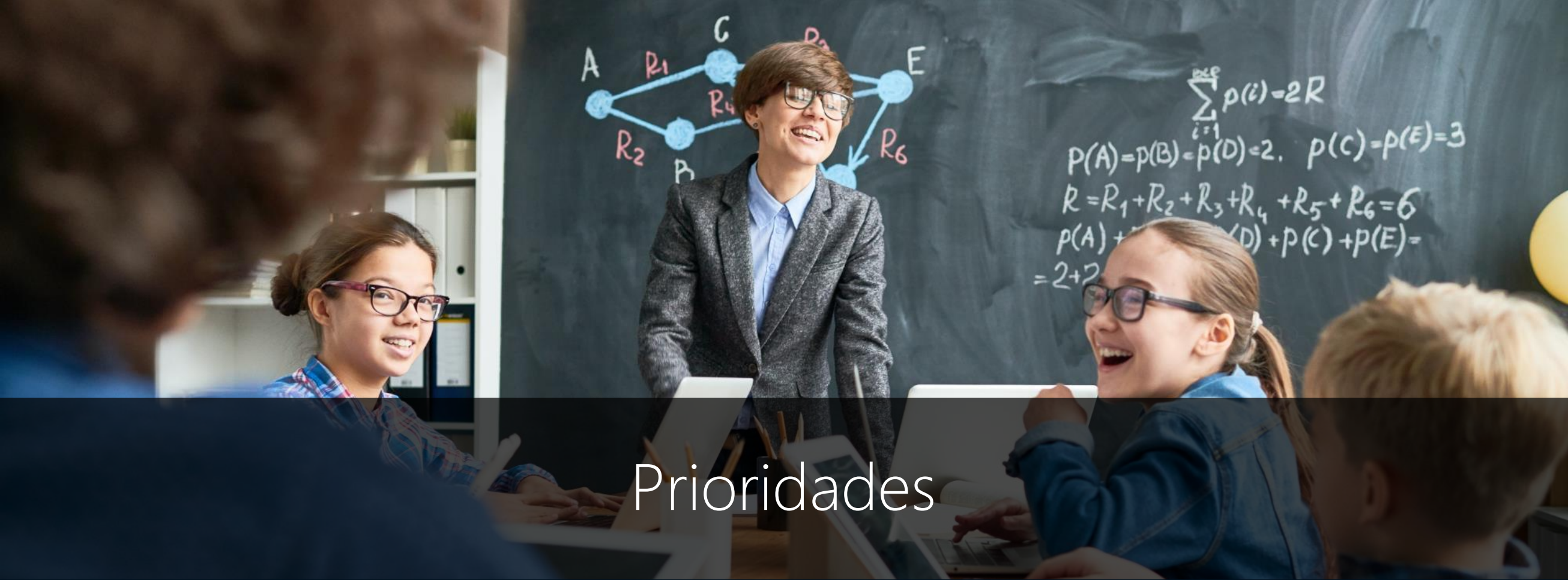
Prover ferramentas que deem a todos os estudantes oportunidades de aprendizado iguais.

Amplificar a criatividade dos estudantes, professores e administradores.

Criar salas de aula mais eficientes e maximizar o tempo de aprendizagem.

Ensinar as habilidades necessárias para um futuro em constante e rápida transformação.





Prioridades

AVANÇAR A CIÊNCIA
DA COMPUTAÇÃO

SUPORTAR MELHOR
OS PROFESSORES

ENGAJAR OS ESTUDANTES

Não basta colocar dispositivos nas salas de aula





Microsoft Teams for Education

THE HUB FOR TEAMWORK IN OFFICE 365 EDUCATION

Salas de aula colaborativas

Economizam tempo dos professores e engajam melhor os estudantes

Melhoram a Comunicação administrativa

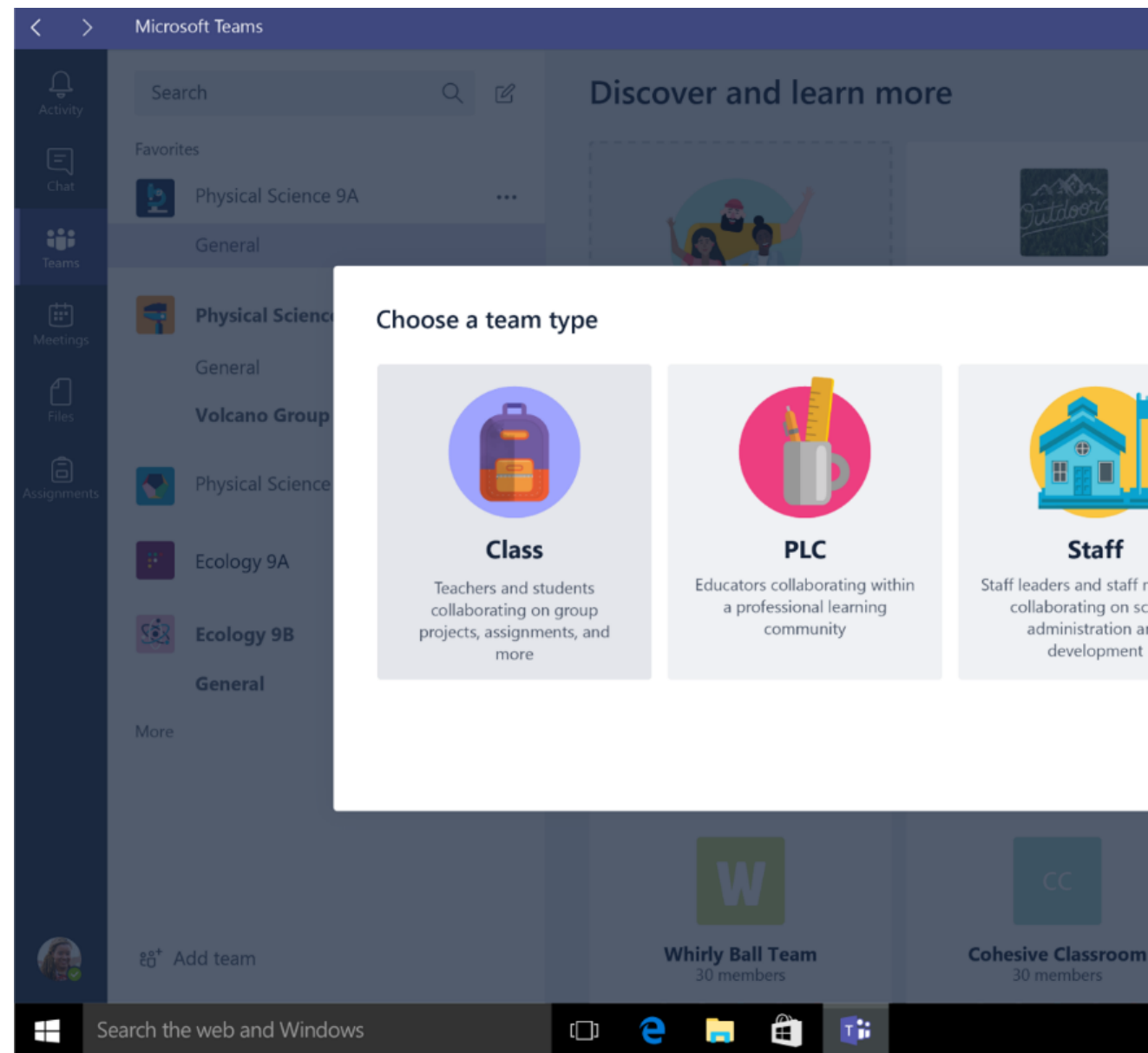
Auxilia nas iniciativas da escola

Conecta os educadores em comunidades de aprendizado

Melhoram habilidades de Ensino

Promove grupos/times

Para projetos ou eventos





Integração com OneNote

Cria tarefas

Com opção de personalização para aprendizado individualizado

Organiza

Pasta digital por lição ou módulo

Avaliação e Feedback

Usando sistema de pontuação ou feedback escrito

Lições interativas

Para todos os estudantes ou para alguns somente

The image displays two overlapping screenshots from the Microsoft Teams interface. The top screenshot shows the 'Assignments' page, which is organized by date from Monday, Feb 13 to Friday, Feb 17. It features several assignment cards with status indicators: 'Turned in' (green checkmark), 'Not turned in' (grey circle), and 'Past due' (red exclamation mark). Assignments include 'Language Arts', 'Intro to Art 9C', 'Physical Science 9A' (with a 'KM HW1' task), 'Precalculus', and 'Physical Science 9A' (with a task to 'Practice solving KM equations'). The bottom screenshot shows a 'Class Notebook' for 'General (3rd Period World History)'. The notebook has a sidebar with a table of contents listing sections like 'Welcome', 'Collaboration Space', and 'Content Library'. The main content area displays a page titled 'What is Government?' with text explaining government as a system. A hand-drawn diagram shows 'COMMUNITY?' in the center, surrounded by 'REGULATE', 'PROTECT', and 'MANAGE' in ovals, all connected by arrows. Below the text, there are bullet points and a highlighted question: 'What other examples can you think of?'.

Colaboração Corporativa e na Sala de Aula

Office 365, EMS, W10 e Minecraft

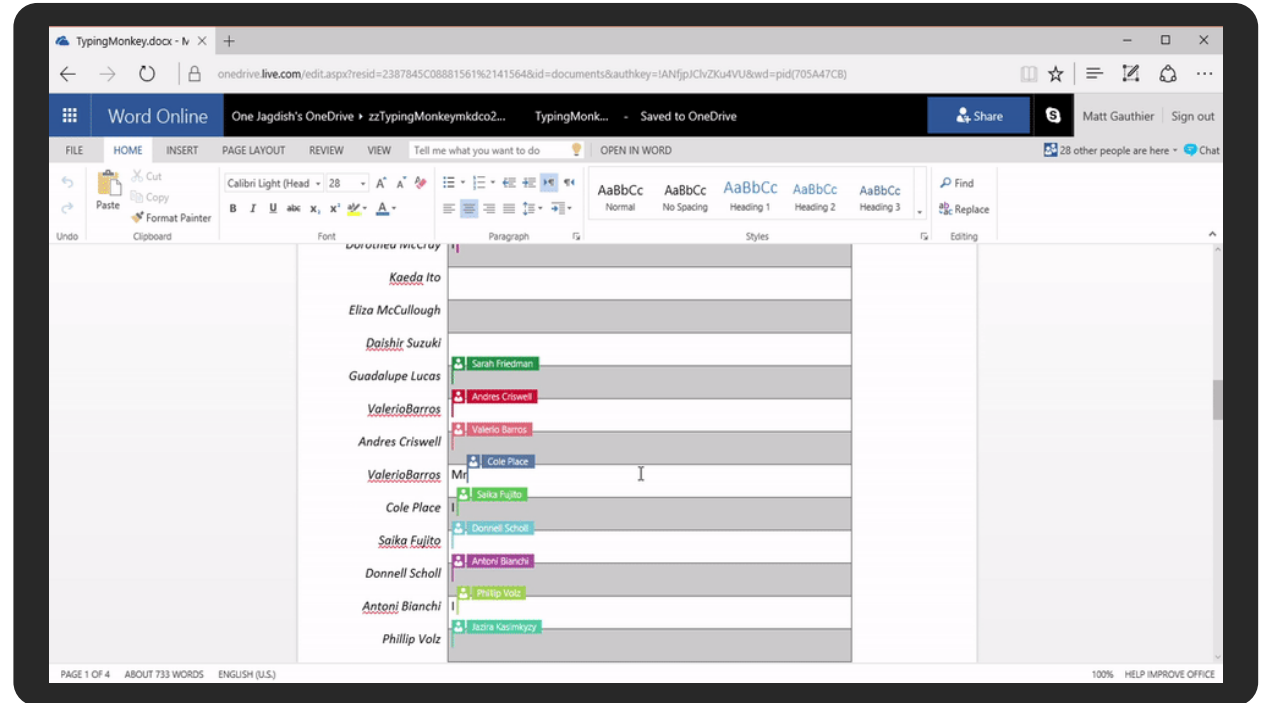
Ferramentas de colaboração com o Office 365 para Educação

Ferramentas de conexão com o conjunto de aplicativos de colaboração móveis

Controle dos dados com ferramentas avançadas de segurança e conformidade

Aprendizado de estudantes usando o único software integrado ao ambiente da instituição

Criar, compartilhar e colaborar com serviços inteligentes que economizam tempo.



Office Online applications



Services



Platform Services

Security & Management

- Portal
- Active Directory
- Multi-Factor Authentication
- Automation
- Key Vault
- Store / Marketplace
- VM Image Gallery & VM Depot

Compute

- Cloud Services
- Service Fabric
- Batch
- Remote App

Web and Mobile

- Web Apps
- API Apps
- API Management
- Mobile Apps
- Logic Apps
- Notification Hubs

Developer Services

- Visual Studio
- Azure SDK
- Team Project
- Application Insights

Hybrid Operations

- Azure AD Connect Health
- AD Privileged Identity Management
- Backup
- Operational Insights
- Import/Export
- Site Recovery
- StorSimple

Integration

- Storage Queues
- Biztalk Services
- Hybrid Connections
- Service Bus

Analytics & IoT

- HDInsight
- Machine Learning
- Data Factory
- Event Hubs
- Stream Analytics
- Mobile Engagement

Data

- SQL Database
- SQL Data Warehouse
- Redis Cache
- Search
- DocumentDB
- Tables

Media & CDN

- Media Services
- Content Delivery Network (CDN)

Infrastructure Services

Compute

- Virtual Machines
- Containers

Storage

- BLOB Storage
- Azure Files
- Premium Storage



































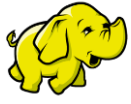
















Networking

- Virtual Network
- Load Balancer
- DNS
- Express Route
- Traffic Manager
- VPN Gateway
- Application Gateway

Datacenter Infrastructure (34 Regions)



Escolha e Flexibilidade

DevOps										
Gerenciamento										
Aplicações										
Frameworks de Aplicativos & Ferramentas										
Banco de Dados & Middleware										
Infraestrutura										

Azure Lab Services



Azure Lab Services PREVIEW

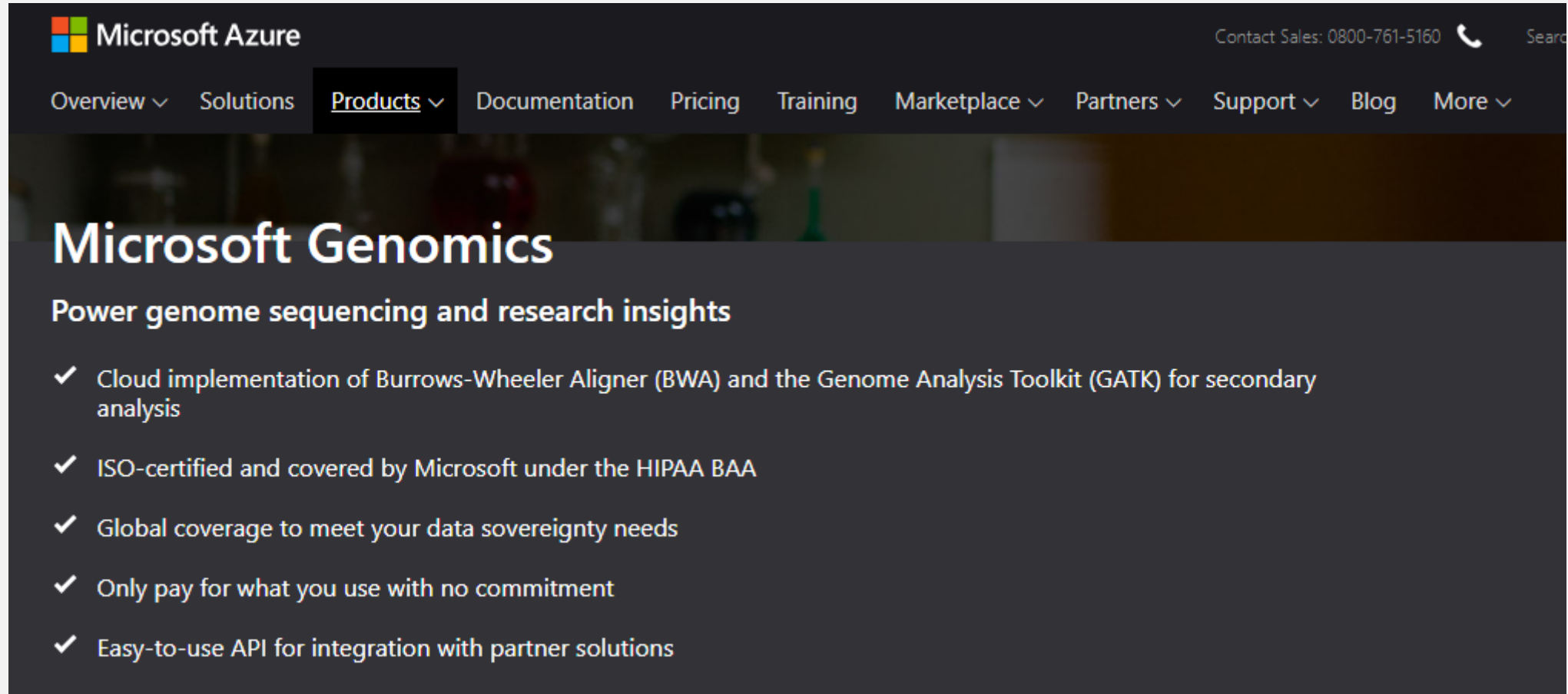
Computer labs in the cloud

- ✓ Build Windows or Linux environments
- ✓ Provision each lab with specific software and settings
- ✓ Invite innovation with flexibility to create and experiment
- ✓ Minimize costs with policy and schedule settings
- ✓ Set up labs for classrooms, trials, development and testing, and other scenarios

[Get started >](#)

[New to Azure? Start free >](#)

Microsoft Genomics



Microsoft Azure Contact Sales: 0800-761-5160 Search

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Microsoft Genomics

Power genome sequencing and research insights

- ✓ Cloud implementation of Burrows-Wheeler Aligner (BWA) and the Genome Analysis Toolkit (GATK) for secondary analysis
- ✓ ISO-certified and covered by Microsoft under the HIPAA BAA
- ✓ Global coverage to meet your data sovereignty needs
- ✓ Only pay for what you use with no commitment
- ✓ Easy-to-use API for integration with partner solutions

Azure HPC

High performance computing

Break free from the overhead and limitations of your on-premises infrastructure. Tap into unlimited resources to scale your high performance computing (HPC) jobs—analyzing large-scale data, running simulations and financial models, and experimenting while reducing time to market.

Implement your high performance computing solution



[View solution architectures >](#)

Use a Cray supercomputer

Run your most demanding workloads on a Cray supercomputer—near the Azure services you're already using. Add a dedicated Cray supercomputer to your virtual network in Azure and innovate faster, access advanced services, and consolidate your IT footprint.

[Learn how to get a Cray in Azure >](#)



Scale on demand, stay on budget

When the amount of data you have to ingest and process grows, tap into cloud resources for elastic extension of compute capabilities. Scale cost-effectively with the high performance computing (HPC) capabilities of Azure.

Quantum Development Kit

Powering a new generation of development



A new quantum-focused programming language

The first of its kind, Q# is a brand-new quantum-focused programming language with native type, operators, and other abstractions. Q# features rich integration with Visual Studio and VS Code and interoperability with the Python programming language. The enterprise-grade development tools give you the fastest path to quantum programming on Windows, macOS, or Linux.



Advanced code optimization in a simulated environment

Set breakpoints, step into the Q# code, debug line-by-line, and estimate the real-world costs to run your solution. Simulate quantum solutions requiring up to 30 qubits with a local simulator, or use the Azure simulator for large-scale quantum solutions requiring more than 40 qubits.

[Learn more >](#)



Open source license for libraries and samples

Developed by top industry experts, a collection of ready-to-use building blocks take you from being a beginner to building your first quantum solution. The open source license allows development libraries and samples to be used in your applications, while also enabling you to contribute your own enhancements to the growing Q# community.

Helpful resources, at your fingertips

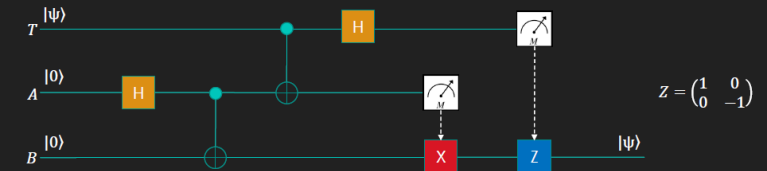
In-depth documentation guides you through the key concepts of quantum development.

[Learn more >](#)

Stay up to date on quantum computing from Microsoft

[Sign up >](#)

Teleportation



```
operation Teleport(msg : Qubit, there : Qubit) : () {
    body {
        using (register = Qubit[1]) {
            let here = register[0];
            H(here);
            CNOT(here, there);
            CNOT(msg, here);
            H(msg);
            // Measure out the entanglement.
            if (M(msg) == One) { Z(there); }
            if (M(here) == One) { X(there); }
        }
    }
}
```

Democratizando a Inteligência Artificial:

Para todas as pessoas e organizações



Video Indexer



Unlock video insights

Ignite 2016 - Innovation Keynote

People

Satya Nadella
Microsoft CEO
[Show biography](#) [Find in Bing](#)

Appears for a total of 53% of the entire duration

00:57:11

Speech Sentiment

- Neutral (36%)
- Positive (61%)
- Negative (3%)

Keywords

data drivers cognitive services action
neural network framework crm press opportunity

The image displays the 'Unlock video insights' interface. On the left is a video player thumbnail for 'Ignite 2016 - Innovation Keynote'. On the right, a large white arrow points to a detailed analysis panel. This panel includes a 'People' section with a profile for Satya Nadella, showing his role as Microsoft CEO and a video timeline indicating he appears for 53% of the duration. Below this is a 'Speech Sentiment' section with a bar chart showing 61% positive, 36% neutral, and 3% negative sentiment. At the bottom is a 'Keywords' section with a list of terms like 'data', 'drivers', 'cognitive services', 'action', 'neural network', 'framework', 'crm', 'press', and 'opportunity'.



RonanDamasco-Ago18

Edit

Insights Transcript

Search... Portuguese

Edit Off | Autoscroll On | OCR On

Oi pessoal eu sou ronan damasco e tô gravando esse vídeo aqui a pedido do meu grande amigo robson santarém Pra falar sobre o tema da cultura e das pessoas a

ueuo

importância destes 2 fatores nas transformações nas mudanças Eu sou diretor nacional de tecnologia da microsoft tua 25 anos aqui na empresa Durante esse tempo eu vivi grandes transformações grandes

mudanças na indústria E na própria empresa hoje eu vou me focar falando sobre a última grande transformação que a gente viveu aqui na microsoft que é a mudança da

empresa para 1 empresa de nuvem A gente saiu de 1 modelo que a gente vendia licenças de produtos e hoje a gente vende serviços de novo né Que bom

pra quem de fora d

desapercebida por

profundidade do in

empresa Vamos 5 a

quase usar termos i

sinônimos E suas e

apwing.com

People

Unknown #1

Appears for 100% of the video's duration.

Keywords

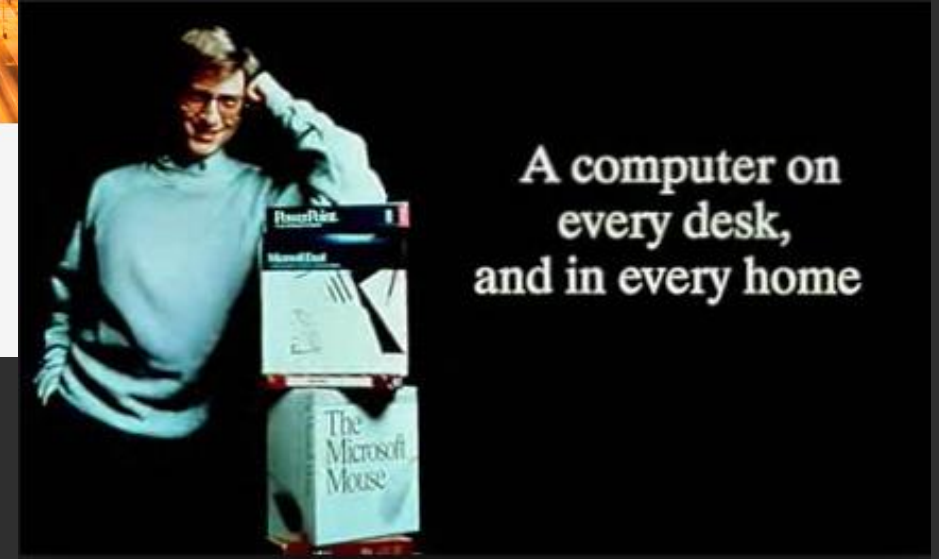
Show all

- professora carol
- transformação cultural
- mentalidade fixa
- gente
- transformação
- teoria
- quase
- microsoft
- empresa
- mentalidade



Democratizing AI

For every person and every organization



A computer on
every desk,
and in every home



Microsoft

