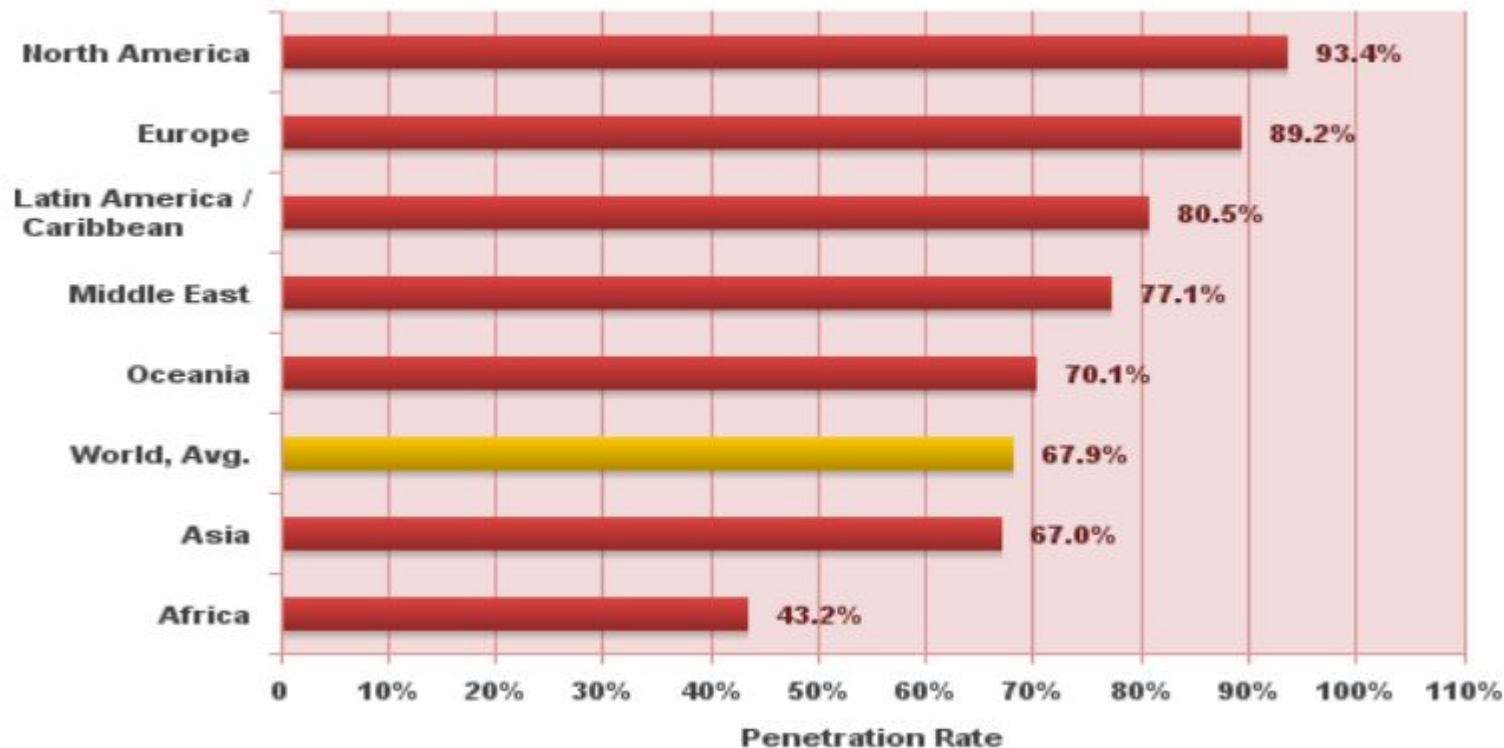


The Digital Divide

Yanique Sears and Adam Prado

Internet World Penetration Rates by Geographic Regions - 2022

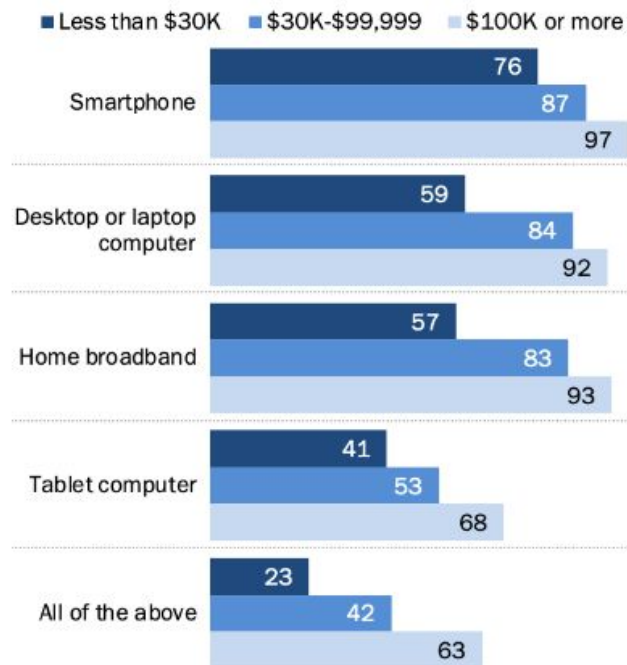


Source: Internet World Stats - www.internetworldstats.com/stats.htm

<https://internetworldstats.com/stats.htm>

Americans with lower incomes have lower levels of technology adoption

% of U.S. adults who say they have each of the following, by household income

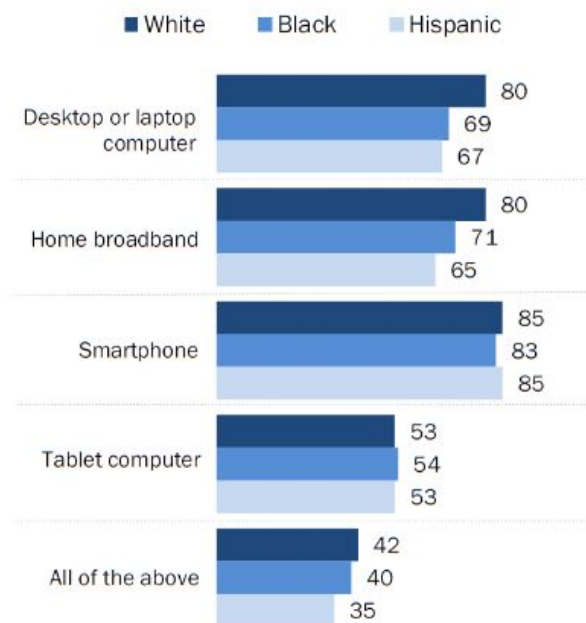


Note: Respondents who did not give an answer are not shown.
Source: Survey of U.S. adults conducted Jan. 25-Feb. 8, 2021.

PEW RESEARCH CENTER

Black and Hispanic adults in U.S. are less likely than White adults to have a traditional computer, home broadband

% of U.S. adults who say they have the following



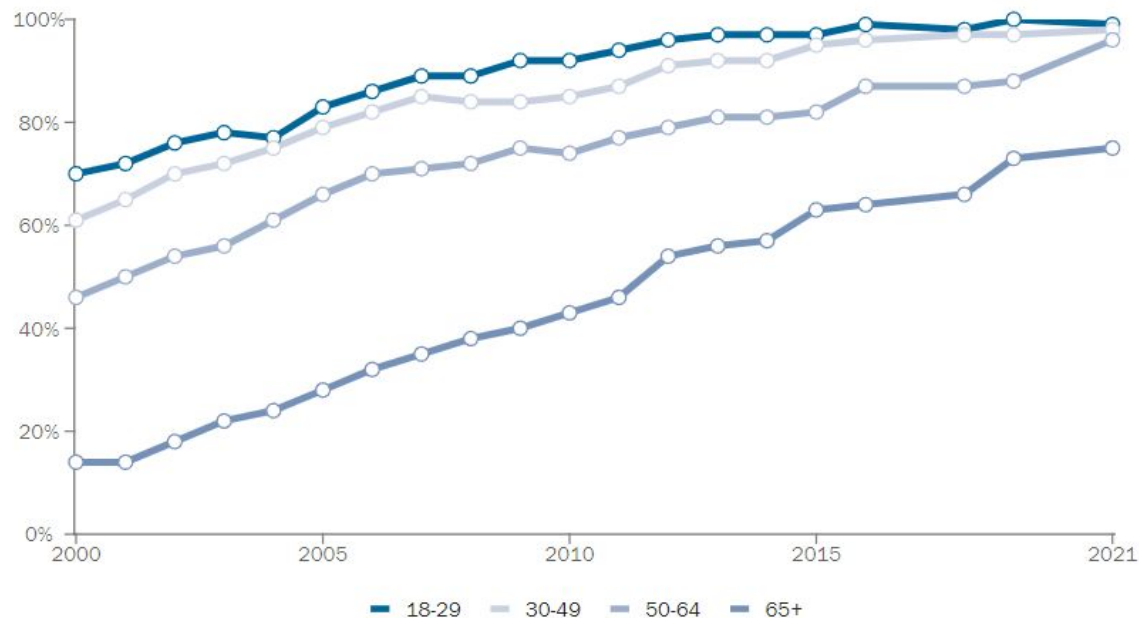
Note: Respondents who did not give an answer are not shown.
White and Black adults include those who report being only one race and are not Hispanic. Hispanics are of any race.
Source: Survey of U.S. adults conducted Jan. 25-Feb. 8, 2021.

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<https://www.pewresearch.org/fact-tank/2021/06/22/digital-divide-persists-even-as-americans-with-lower-incomes-make-gains-in-tech-adoption/>

Internet use by age

% of U.S. adults who say they use the internet, by age



Note: Respondents who did not give an answer are not shown.

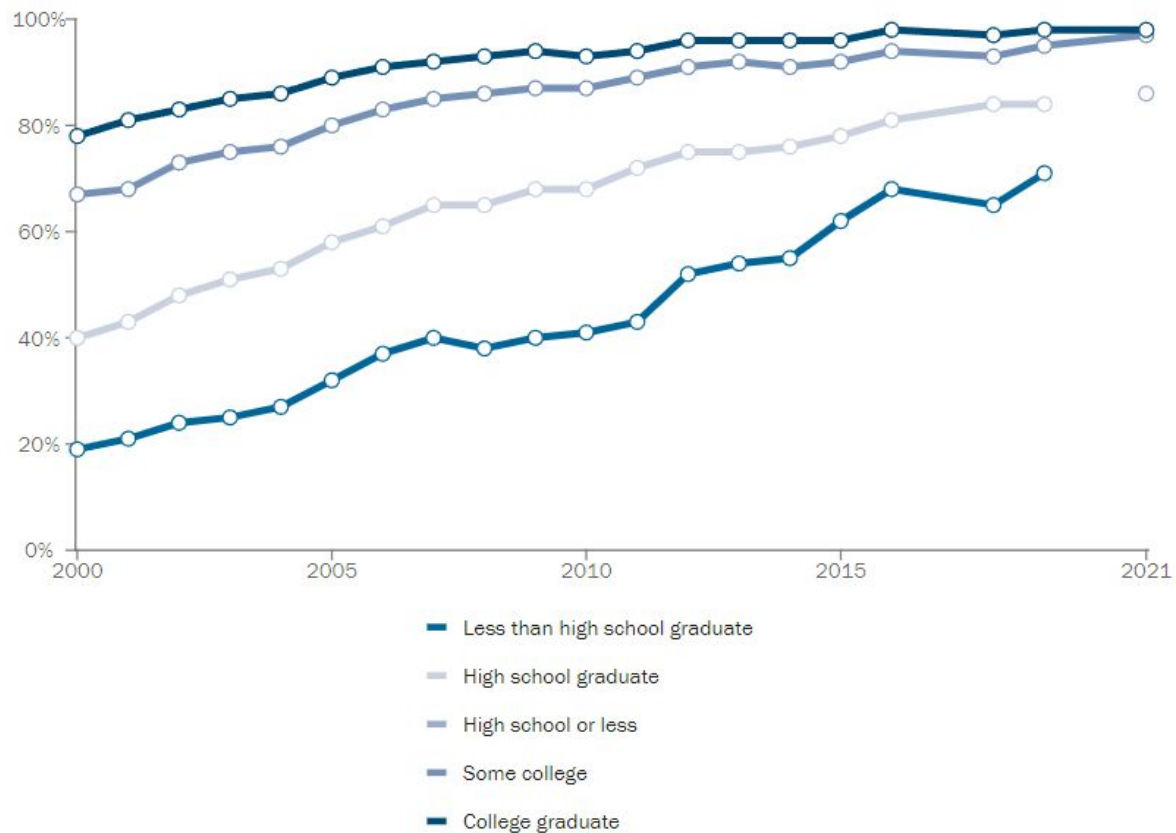
Source: Surveys of U.S. adults conducted 2000-2021. Data for each year based on a pooled analysis of all surveys conducted during that year.

PEW RESEARCH CENTER

<https://www.pewresearch.org/internet/fact-sheet/internet-broadband/?menuitem=6b886b10-55ec-44bc-b5a4-740f5366a404>

Internet use by education

% of U.S. adults who use the internet, by education level



Most significant difference with access to the internet

- 1) Wealth/development levels of countries
- 2) Income/wealth of individuals
- 3) Educations levels
- 4) Race, Age, Rural/Urban

Positive Signs

- The digital divide, at least as far as access to the internet, is starting to narrow for most demographic breakdowns.
- Countries that have the least access to the internet are also the ones where internet usage is growing the fastest each year.
- Access to the internet through smartphones in the US has a much narrower digital divide than broadband internet.

Covid and the digital divide


<https://www.weforum.org/agenda/2021/01/covid-digital-divide-learning-education/>

According to an International Telecommunication Union report, in the developed world the internet penetration rate is 87% but just 47% in developing countries and 19% in the least developed countries.

Digital Divide App

Code Design Data

worldScreen



WORLD

Run

Show Toolbox

Workspace

```
15 var area = ["rural", "suburban", "urban"];
16 var areaPercent = [72, 79, 77];
17 var relativeAreaPer = findRelativePer(areaPercent);
18
19 var relativePickPer = [];
20 onEvent(▼"worldButton", ▼"click", function() {
21   setScreen(▼"worldScreen");
22 });
23 onEvent(▼"usButton", ▼"click", function() {
24   setScreen(▼"usCheckBoxScreen");
25   for (var i = 0; i < 3; i++) {
26     radioButton(income[i], ▼false, "incomeRB");
27     setPosition(income[i], (i+1)*80, 140, 15, 15);
28     textLabel("incLabel"+i, income[i]);
29     setPosition("incLabel"+i, (i+1)*80-20, 120, 0, 0);
30   }
```

