



ROS中使用Processing制作交互界面

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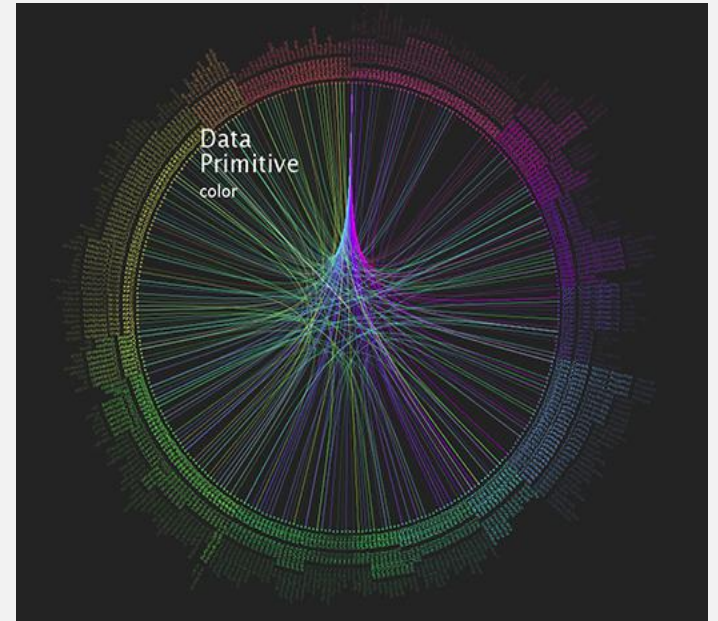
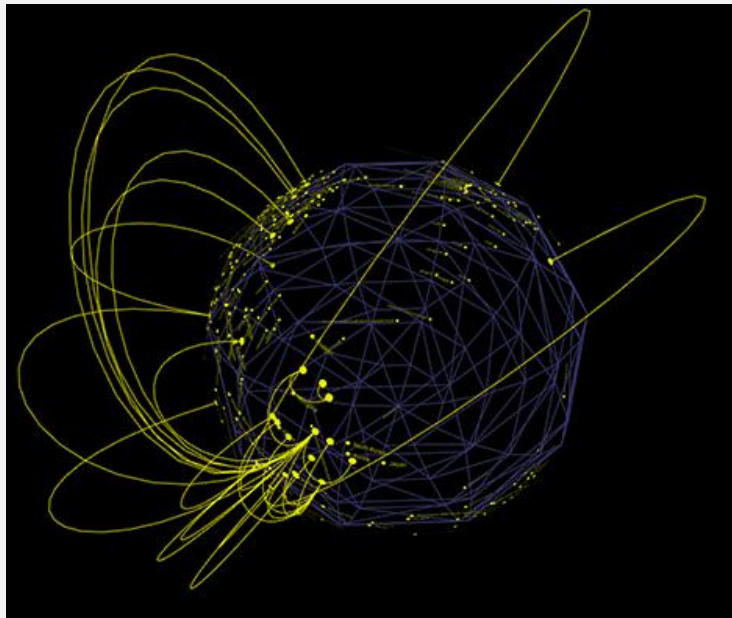
一、初识Processing

1. Processing 是由美国麻省理工学院的媒体实验室开发的一套免费开源的程序，用户可通过少量的代码快速生成视觉艺术、动态影响、互动设计等作品，该程序注重绘图和互动，让一般人也可以发挥创作数字艺术的能力。



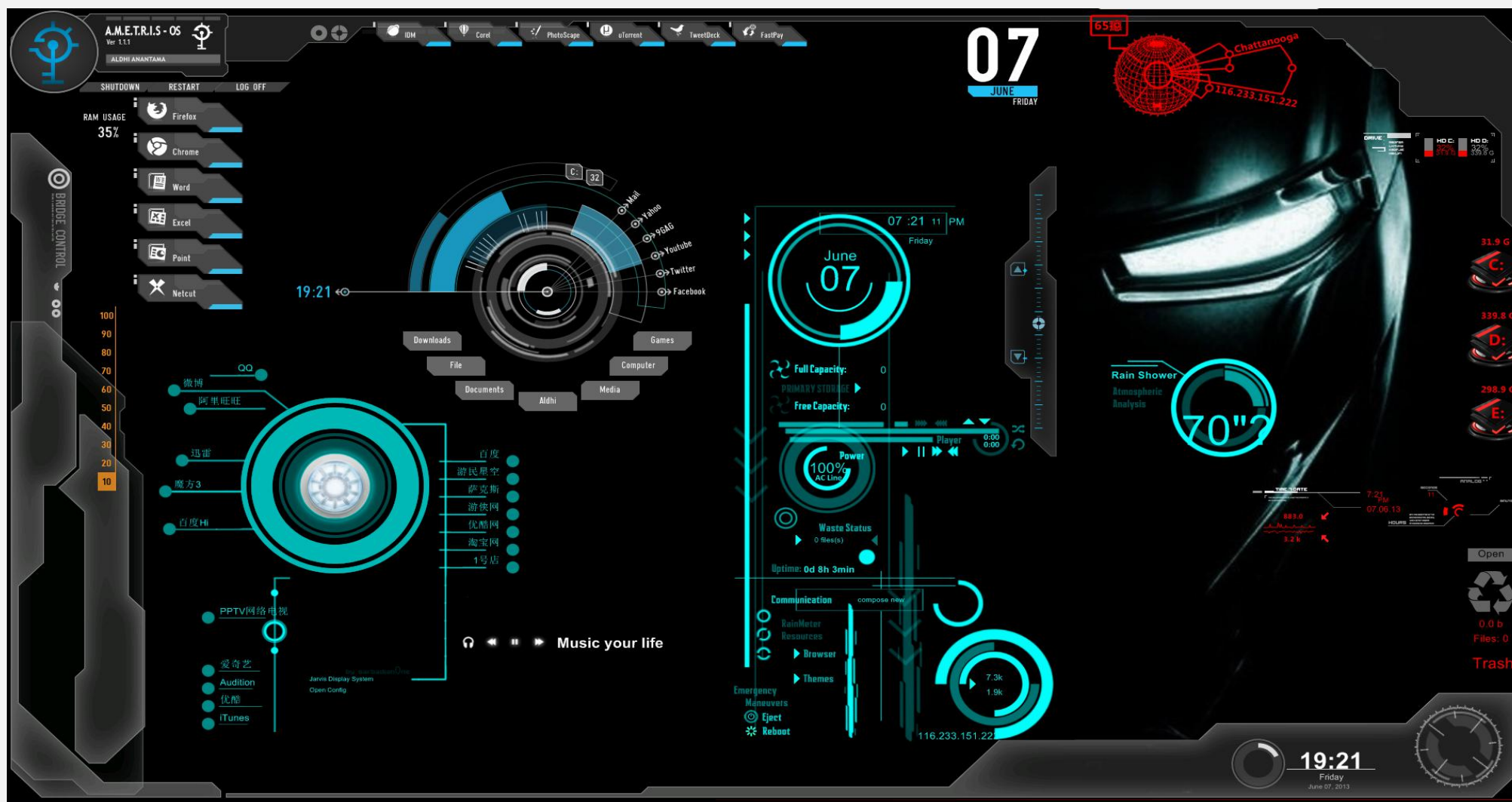
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2. Processing尤其擅长算法动画和即时交互反馈，所以近年来在交互动画，复杂数据可视化，视觉设计，原型开发和制作方向越发流行，大家都喜欢这个可爱贴心，简洁好用的编程工具。接下来可以查看示例演示，查看processing的威力如何，最终我们可以为我们的机器人设计一个酷炫的人机交互操作界面。

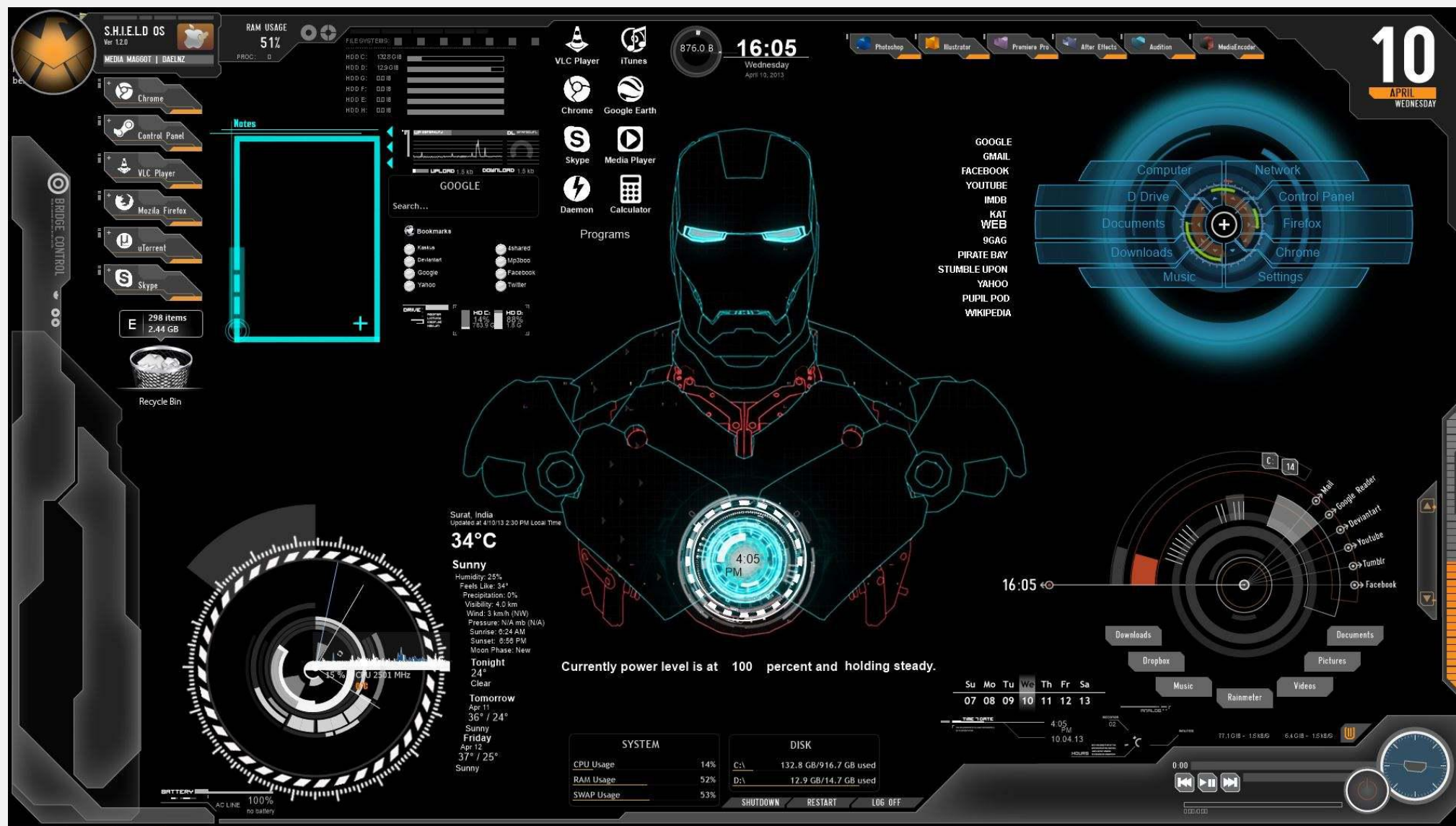


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3.我们的目标是通过Processing设计出像钢铁侠里面酷炫的人机交互界面。

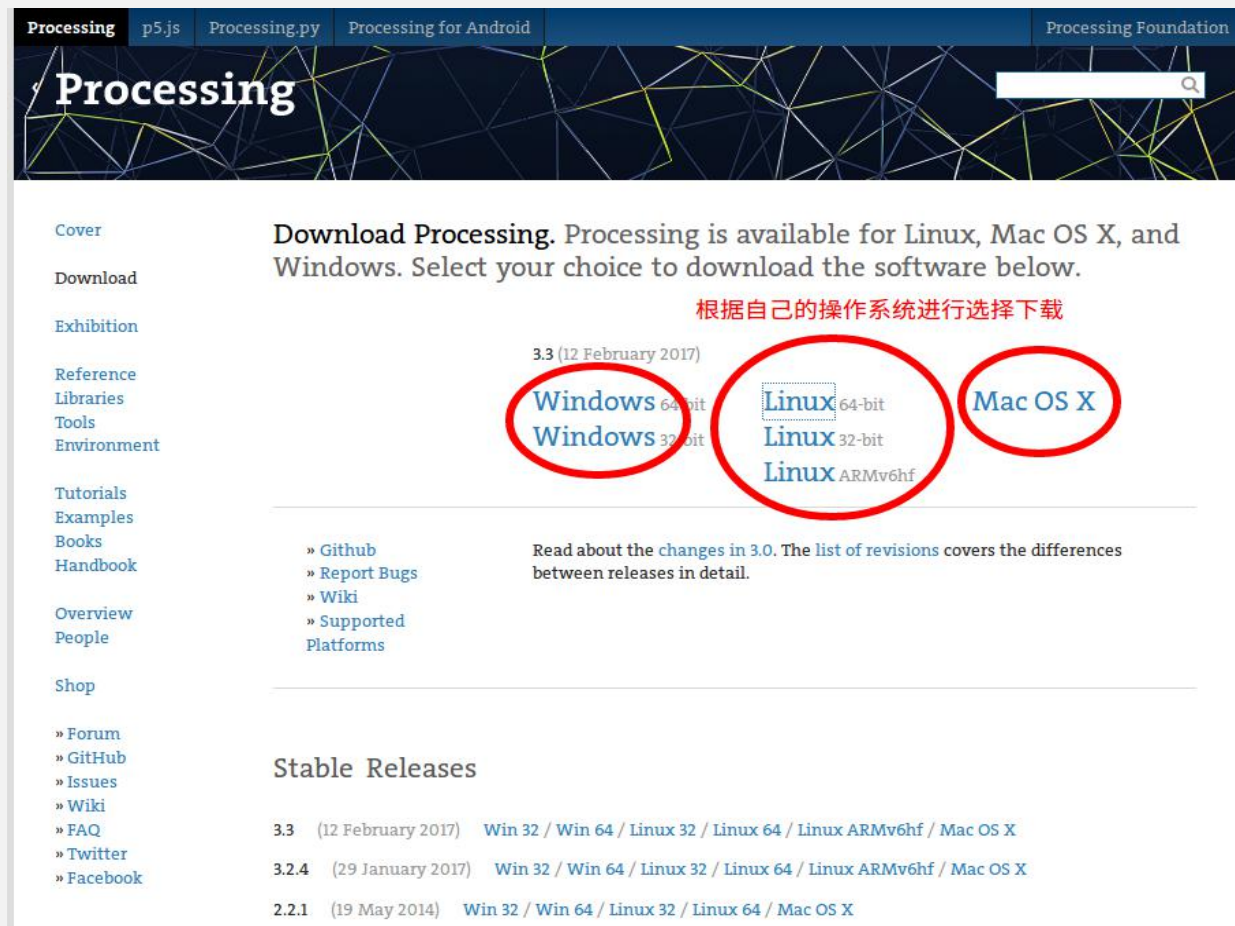


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4. Processing的官网地址：<https://processing.org>从官网下载最新稳定版processing软件开发环境。



The screenshot shows the Processing.org website. The navigation bar includes links for Processing, p5.js, Processing.py, Processing for Android, and Processing Foundation. The main heading is "Processing". Below the heading, there is a search bar and a list of links on the left: Cover, Download, Exhibition, Reference, Libraries, Tools, Environment, Tutorials, Examples, Books, Handbook, Overview, People, Shop, Forum, GitHub, Issues, Wiki, FAQ, Twitter, and Facebook. The main content area features the text "Download Processing. Processing is available for Linux, Mac OS X, and Windows. Select your choice to download the software below." followed by a red Chinese annotation "根据自己的操作系统进行选择下载". Below this, there are three red circles highlighting the download options: "Windows 64-bit" and "Windows 32-bit", "Linux 64-bit", "Linux 32-bit", and "Linux ARMv6hf", and "Mac OS X". Below the download options, there is a link to "Github" and a link to "Report Bugs". Below the "Report Bugs" link, there is a link to "Wiki" and a link to "Supported Platforms". Below the "Supported Platforms" link, there is a link to "Read about the changes in 3.0. The list of revisions covers the differences between releases in detail." Below the "Read about the changes in 3.0" link, there is a section titled "Stable Releases" with a table of releases.

Version	Date	Download Links
3.3	12 February 2017	Win 32 / Win 64 / Linux 32 / Linux 64 / Linux ARMv6hf / Mac OS X
3.2.4	29 January 2017	Win 32 / Win 64 / Linux 32 / Linux 64 / Linux ARMv6hf / Mac OS X
2.2.1	19 May 2014	Win 32 / Win 64 / Linux 32 / Linux 64 / Mac OS X